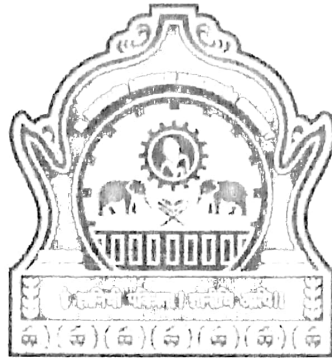


Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad



Have Satisfactorily carried out and completed the project work entitled

A

Project On

“Institute Management System”

This work is being submitted for the award of the degree in B.C.A. 2018-2019

Submitted by

Mr. Akshay K. Wankhede

Guided by

Prof. D. E. Suradkar

SAGAR COLLEGE OF MANAGEMENT, JALNA



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It is matter of honour to express our special thanks to all the staff members who support us I completion of our project and provide us their own interest.

We also thankful to all our friends who have directly or indirectly supported us by morally.

Mr. Akshay K. Wankhede

B.C.A. (IIIrd Year)

Sagar College of Management, Jalna



CERTIFICATE

This is to certify that the seminar report entitled,
"Institute Management System"

Submitted by **Mr. Akshay K. Wankhede**, as per the requirement of *Dr. Babasaheb Ambedkar Marathwada University* In the partial fulfilment of bachelor of computer application third year for the academic year 2018-19.

Seat No.

Guided by

Prof. D. E. Suradkar


PRINCIPAL
Sagar College, Jalna
Principle


12-4-19
Principal

DECLARATION

I have undersign that I have completed the project work on the topic Software Development from
 in partial fulfilment of B.C.A course as related to the as per the syllabus of B.C.A. degree.

I hereby declare that this project is genuine and origin and never been submitted previously by me for the award of any other degree or any other university.

Mr. Akshay K. Wankhode



INTRODUCTION TO PROJECT

The aim of this software is to manage the Institute of Management System events. This software is developed using VISUAL BASICS 6.0 as the front end tool and MS-Access 2000 as the back end tool.

In the Jetking all the process was carried out with the help of the registers and files to store. All the calculations and information related to Customers are done and there is no possibility of miscalculation and misplacements of files or the information. To keep records with reference to Customers, its purchasing details, types of vehicles, bill amounts, etc. So to solve the problem we have developed this software, which reduce the large extent of problems to store information related to Customers details and other details.

INTRODUCTION TO VISUAL BASIC

We know that computer involves writing coded Character sequence that contains combination of language element. These lines of code taken in the entity, as referred to as some program. In order to execute a source program we must put in under the control of an interpreter computer program such as VB as to convert to an executable program.

Language element: The VB language consist of large number of language element such as command button, text box, label box etc. these languages elements causes the computer to perform action. VB provides value we can write lines of code that causes an object property.

The GUI (Graphical User Interface) is a device employed by VB to make it easy for us to install and define the visual object form the frame works for us program.

It also provides us with code window and extends that make our programming codes easier.

Data access in VB consists of performing operation on physical database. We are making tables in Ms-Access and reports forms with view coding in MS VB.

INTRODUCTION TO MS-ACCESS

As we know that all relational DB is a collection of database. Ms-Access from Microsoft Corporation is also a RDBMS and it has got the following qualities

Relational Data Base Management

Ms-Access is a relational to manage the stored in its uses only capabilities information database.

Information Representation

All the information is stored in Access is represented by only data item. Values which are stored in the table that makes up a database. Associations between data items are not logically represented in any other way.

Logical Accessibility

Every data item values stored in Access is accessible from the table in which it is stored, the name of the column of the same table and the value of primary key that defines the row in which it is stored.

FEASIBILITY STUDY

Feasibility is the determination of whether or not a project is worth doing. The process followed in making this determination is called Feasibility Study. This type of study determines if project can and should be taken.

Once it has been determined that the project is flexible, the analyst can go ahead and prepare the project specification which finalize project requirements.

Generally, feasibility studies are taken within tight time constraints and normally culminate in a written MS ACCESS feasibility report. The content and recommendation of such study will be used as sound basis for deciding whether to proceed or to cancel the project.

Thus the feasibility study may lead to commitment to large resources it becomes necessary that it should be conducted completely and that no fundamental errors of judgments are made

SYSTEM REQUIREMENTS

Hardware:-

- Processor : **Minimum Intel Pentium II**
- RAM 64MB
- Hard disk 10GB

Softwares:- (Minimum Requirements)

- Windows 98 Operating System
- Visual Basics 6.0
- MS-Access 2000

FORMS ADMISSION:-

```
Dim rsadm As New ADODB.Recordset
Dim rsreg As New ADODB.Recordset
Dim rsenq As New ADODB.Recordset
Dim rsint As New ADODB.Recordset
Dim rsatd As New ADODB.Recordset
Dim rslea As New ADODB.Recordset
Dim rsis As New ADODB.Recordset
Dim rsfp As New ADODB.Recordset
Dim rspla As New ADODB.Recordset
```

```
Dim cn As New ADODB.Connection
Dim edit As Integer
Dim add As Integer
```

```
Private Sub chkother_Click(Index As Integer)
If chkother(1).Value = 1 Then
    txtother.Visible = True
ElseIf chkother(1).Value = 0 Then
    txtother.Visible = False
End If
End Sub
```

```
Private Sub cmdadd_Click()
Call clear
rsadm.Close
rsadm.Open "select * from admission", cn, adOpenDynamic, adLockOptimistic
txtrollno.Enabled = True
dtstartdate.Enabled = True
txtmodule.Enabled = True
txtbatch.Enabled = True
txtcentre.Enabled = True
txtcentre1.Enabled = True
txtcourse.Enabled = True
txttfrom.Enabled = True
txtto.Enabled = True
frapersonal.Enabled = True
fraeducation.Enabled = True
```

```
If rsadm.EOF = True Then
    txtserial.Text = "1"
Else
    While rsadm.EOF = False
        rsadm.MoveNext
```

```

Private Sub cmdedit_Click()
    edfname = InputBox("Enter the Student's First Name ", "First Name")
    edsurname = InputBox("Enter the Student's Last Name ", "Last Name")
    rsadm.Close
    rsadm.Open "select * from admission where fname='" & UCase(edfname) & "'and surname='" & UCase(edsurname) & "'", cn, adOpenDynamic, adLockOptimistic

    If rsadm.EOF = True And rsadm.BOF = True Then
        MsgBox "No such person has taken Admission."
        rsadm.Close
        rsadm.Open "select * from admission", cn, adOpenDynamic, adLockOptimistic
        rsadm.Requery
        Exit Sub
    Else
        Call display
        txtrollno.Enabled = True
        dtstartdate.Enabled = True
        txtmodule.Enabled = True
        txtbatch.Enabled = True
        txtcentre.Enabled = True
        txtcentre1.Enabled = True
        txtcourse.Enabled = True
        txtfrom.Enabled = True
        txtto.Enabled = True
        trapersonal.Enabled = True
        fraeducation.Enabled = True
        cmdsave.Enabled = True
        cmddel.Enabled = False
        cmdedit.Enabled = False
        cmdadd.Enabled = False
        cmdnext.Enabled = True
        cmdcancel.Visible = True
        cmddel.Visible = False
        edit = 1
    End If
End Sub

```

```

Private Sub cmdnext_Click()
    If trapersonal.Visible = True And fraeducation.Visible = True Then
        trapersonal.Visible = False
        fraeducation.Visible = False
        fraports.Visible = True
        cmdback.Enabled = True
    End If

```

```

cmdnext.Enabled = True
cmdsave.Enabled = True
txtgames.SetFocus
ElseIf frasports.Visible = True Then
    frasports.Visible = False
    frareg.Visible = True
    cmdback.Enabled = True
    cmdsave.Enabled = True
    cmdnext.Enabled = False
    txtfeetype.SetFocus
End If
End Sub

```

```

Private Sub cmdsave_Click()
    If optyes.Value = True Or optno.Value = True Then
        GoTo b
    Else
        msg = MsgBox("Please select the option from the Money Back.", vbCritical, "Selection Error")
        Exit Sub
    End If

```

```

b:
If txtmodule.Text = "" Or txtcourse.Text = "" Or txtbatch.Text = "" _
Or txtrollno.Text = "" Or txtfrom.Text = "" Or txtto.Text = "" _
Or txtcentre1.Text = "" Or dtstartdate.Value = "" _
Or txtsurname.Text = "" Or txtfname.Text = "" Or txtmname.Text = "" _
Or txtaddress.Text = "" Or txtarea.Text = "" Or txtcity.Text = "" _
Or txtpin.Text = "" Or txtresphone.Text = "" Or txtoffphone.Text = "" _
Or txtdob.Text = "" Or txtdegree.Text = "" Or txtschool.Text = "" _
Or txtboard.Text = "" Or txtyear.Text = "" Or txtdivision.Text = "" _
Or txtgames.Text = "" Or txtsocialact.Text = "" Or txthobbies.Text = "" _
Or txtspeak.Text = "" Or txtread.Text = "" Or txtwrite.Text = "" _
Or txtplace.Text = "" Or txtdate.Text = "" Or txtserial.Text = "" _
Or txtrollno.Text = "" Or txtfeecode.Text = "" Or txtfeetype.Text = "" Or txttotalfee.Text = "" _
Or txtdp.Text = "" Or txtdprec.Text = "" Or txtdpdate.Text = "" _
Or txtinstamt.Text = "" Or txtinstno.Text = "" Or txtl1instdate.Text = "" _
Or txtlib.Text = "" Or txtlibdate.Text = "" _
Or txtcaution.Text = "" Or txtcautionrec.Text = "" Or txtcautiondate.Text = "" _
Or txtmb.Text = "" Or txtmbdate.Text = "" _
Or txtscheme.Text = "" Or txtaccepted.Text = "" Or txtapproved.Text = "" _
Or txtcounsellor.Text = "" Or txtregdate.Text = "" Or txtenqno.Text = "" Then
    msg = MsgBox("You forgot to enter one of the required fields.", vbCritical + vbOKOnly, "Input Error")
    Exit Sub
Else

```

Search for Enquiries :

Select the type : cmbtype

☐ On the Current day☐ In this week☐ In this current month☐ On the date

Enter the date :

☐ Between the two dates

From :

To :

Search

Cancel

Or

```

chkhoarding.Value = 1 Or chkbus.Value = 1 Or chkpresentation.Value = 1 _
Or chking.Value = 1 Or chkdirect.Value = 1 Or chkother(1).Value = 1 Then
Else
msg = MsgBox("Please select only one option" + vbCrLf + "from the Source options", vbCritical,
"Selection Error")
Exit Sub
End If
If edit = 1 Then
GoTo a
End If
While rsadm.EOF = False
rsadm.MoveNext
Wend
If rsadm.EOF = True Then
rsadm.MoveLast
rsadm.addnew

```

```

rsadm.MoveLast
rsadm.addnew
End If
While rsreg.EOF = False
    rsreg.MoveNext
Wend
If rsreg.EOF = True Then
    'rsreg.MoveLast
    rsreg.addnew
End If
a:
rsadm!rollno = txtrollno.Text
rsadm!moduleno = txtmodule.Text
rsadm!course = txtcourse.Text
rsadm!batch = txtbatch.Text
'rsadm!rollno = txtrollno.Text
rsadm!timingfrom = txtfrom.Text
rsadm!timingto = txtto.Text
rsadm!centre = txtcentre1.Text
rsadm!batchstartdate = distartdate.Value
rsadm!surname = Trim(txtsurname.Text)
rsadm!fname = Trim(txtfname.Text)
rsadm!mname = Trim(txtmname.Text)
rsadm!address = txtaddress.Text
rsadm!area = txtarea.Text
rsadm!city = txtcity.Text
rsadm!pincode = txtpin.Text
rsadm!rescontactno = txtresphone.Text
rsadm!offcontactno = txtoffphone.Text
rsadm!dob = txtdob.Text
rsadm!degree = txtdegree.Text
rsadm!school = txtschool.Text
rsadm!board = txtboard.Text
rsadm!yearofpassing = txtyear.Text
rsadm!marks = txtdivision.Text
rsadm!games = txtgames.Text
rsadm!socialactivities = txtsocialact.Text
rsadm!hobbies = txt hobbies.Text
rsadm!langspeak = txtspeak.Text
rsadm!langread = txtread.Text
rsadm!langwrite = txtwrite.Text
End If
If chklocalnews.Value = 1 Then
rsadm!Source = "Local Newspaper"
ElseIf chknationalnews.Value = 1 Then
rsadm!Source = "National Newspaper"

```



```

If self.chkword.Value = 1 Then
    rsadm!Source = "Word of Mouth"
ElseIf chkbanner.Value = 1 Then
    rsadm!Source = "Banner"
ElseIf chkhoarding.Value = 1 Then
    rsadm!Source = "Hoarding"
ElseIf chkpresentation.Value = 1 Then
    rsadm!Source = "Presentation"
ElseIf chkposter.Value = 1 Then
    rsadm!Source = "Poster"
ElseIf chkbus.Value = 1 Then
    rsadm!Source = "Bus Shelter"
ElseIf chkinq.Value = 1 Then
    rsadm!Source = "Inquiry Lab"
ElseIf chkdirect.Value = 1 Then
    rsadm!Source = "Direct Mail"
ElseIf chkjetking.Value = 1 Then
    rsadm!Source = "Jetking Student"
ElseIf chkother(1).Value = 1 Then
    If txtother.Text = "" Then
        MsgBox "Please write the information of the Source."
        rsadm.Requery
        rsreg.Requery
        Exit Sub
    Else
        rsadm!Source = txtother.Text
    End If
Else
    msg = MsgBox("Please select only one option from the + vbCrLf + Source options given",
vbCritical, "Selection Error")
    Exit Sub
End If

If optyes.Value = True Then
    rsadm!moneyback = "Yes"
Else
    rsadm!moneyback = "No"
End If

rsadm!place = txtplace.Text
rsadm!Date = txtdate.Text

rsreg!sno = txtserial.Text
rsreg!rollno = txtrollno.Text
rsreg!feecode = txtfeecode.Text
rsreg!feetype = txtfeetype.Text

```



```

rsreg!totalfee = txttotalfee.Text
rsreg!dp = txtdp.Text
rsreg!dprec = txtdprec.Text
rsreg!dupdate = txtldupdate.Text
rsreg!instamount = txtinstamt.Text
rsreg!instno = txtinstno.Text
rsreg!instdate = txtlstinstdate.Text
If txtlibrec.Text = "" Then
rsreg!libdeposit = "0"
rsreg!librec = "0"
rsreg!libdate = Date
Else
rsreg!libdeposit = txtlib.Text
rsreg!librec = txtlibrec.Text
rsreg!libdate = txtlibdate.Text
End If
rsreg!caution = txtcaution.Text
rsreg!cautionrec = txtcautionrec.Text
rsreg!cautiondate = txtcautiondate.Text
If txtmbrec.Text = "" Then
rsreg!mb = "0"
rsreg!mbrec = "0"
rsreg!mbdate = Date
Else
rsreg!mb = txtmb.Text
rsreg!mbrec = txtmbrec.Text
rsreg!mbdate = txtmbdate.Text
End If
rsreg!scheme = txtscheme.Text
rsreg!acceptedby = txtaccepted.Text
rsreg!approvedby = txtapproved.Text
rsreg!counsellor = txtcounsellor.Text
rsreg!regdate = txtregdate.Text
rsreg!centre = txtcentre.Text
rsreg!enquiry = txtenqno.Text

rsadm!update
rsreg!update
MsgBox "Your record has been saved "
frareg.Visible = False
frasports.Visible = False
frapersonal.Visible = True
fraeducation.Visible = True

cmdnext.Enabled = False
cmdsave.Enabled = False

```

```

emdback.Enabled = False
emdedit.Enabled = True
emdadd.Enabled = True
emddel.Enabled = True
If emdcancel.Visible = True Then
    emdcancel.Visible = False
    emddel.Visible = True
    emddel.Enabled = True
End If

```

```

'rsenq.Close
'rsenq.Open "select * from enquiry", cn, adOpenDynamic, adLockOptimistic
'rsadm.Close
'rsadm.Open "select * from admission", cn, adOpenDynamic, adLockOptimistic
'rsadm.Close
'rsadm.Open "select * from admission_reg", cn, adOpenDynamic, adLockOptimistic

```

```

rsenq.Requery
rsadm.Requery
rsreg.Requery

```

```

rsadm.MoveFirst
rsreg.MoveFirst
Call display
Call Form_Activate
End Sub

```

```

Private Sub Form_Activate()
txtrollno.Enabled = False
dstartdate.Enabled = False
txtmodule.Enabled = False
txtbatch.Enabled = False
txtcentre.Enabled = False
txtcentre1.Enabled = False
txtcourse.Enabled = False
txtfrom.Enabled = False
txtto.Enabled = False
frapersonal.Enabled = False
fraeducation.Enabled = False
End Sub

```

```

Private Sub Form_Load()
jetking.Enabled = False

```

```

Set cn = New ADODB.Connection

```

```

cn.ConnectionString = "Provider=Microsoft Jet.OLEDB.4.0;Data
Source=C:\Institute\ems\lmdb\Persist Security Info=False"
cn.CursorLocation = adUseClient
cn.Open
Set rsadm = New ADODB.Recordset
Set rsint = New ADODB.Recordset
Set rsatd = New ADODB.Recordset
Set rslea = New ADODB.Recordset
Set rsfs = New ADODB.Recordset
Set rsfp = New ADODB.Recordset
Set rspla = New ADODB.Recordset

```

```

rspla.Open "select * from placement", cn, adOpenDynamic, adLockOptimistic
rsfs.Open "select * from fee_schedule", cn, adOpenDynamic, adLockOptimistic
rsfp.Open "select * from fee_paid", cn, adOpenDynamic, adLockOptimistic
rsint.Open "select * from interview", cn, adOpenDynamic, adLockOptimistic
rsatd.Open "select * from attendance", cn, adOpenDynamic, adLockOptimistic
rslea.Open "select * from leave", cn, adOpenKeyset, adLockOptimistic
rsadm.Open "select * from admission", cn, adOpenKeyset, adLockOptimistic
rsreg.Open "select * from admission_reg", cn, adOpenKeyset, adLockOptimistic
rsenq.Open "select * from enquiry", cn, adOpenKeyset, adLockOptimistic

```

```

txtserial.Enabled = False
frasperts.Visible = False
frareg.Visible = False
frapersonal.Visible = True
fraeducation.Visible = True

```

```

cmdnext.Enabled = False
cmdback.Enabled = False
cmdsave.Enabled = False
cmdedit.Enabled = True
cmdadd.Enabled = True
txtbatch.Text = rsadm!batch
txtfrom.Text = rsadm!timingfrom
txtto.Text = rsadm!timingto
txtcentre1.Text = rsadm!centre
dstartdate.Value = rsadm!batchstartdate
txtsurname.Text = rsadm!surname
txtname1.Text = rsadm!name
txtname2.Text = rsadm!name
txtaddress1.Text = rsadm!address
txtarea1.Text = rsadm!area
txtcity1.Text = rsadm!city
txtpin1.Text = rsadm!pincode
txttelephone1.Text = rsadm!newcontactno

```

FORMS ABOUT:-

Option Explicit

'Reg Key Security Options

Const READ_CONTROL = &H200000

Const KEY_QUERY_VALUE = &H1

Const KEY_SET_VALUE = &H2

Const KEY_CREATE_SUB_KEY = &H4

Const KEY_ENUMERATE_SUB_KEYS = &H8

Const KEY_NOTIFY = &H10

Const KEY_CREATE_LINK = &H20

Const KEY_ALL_ACCESS = KEY_QUERY_VALUE + KEY_SET_VALUE +
KEY_CREATE_SUB_KEY + KEY_ENUMERATE_SUB_KEYS +
KEY_NOTIFY + KEY_CREATE_LINK + READ_CONTROL

'Reg Key ROOT Types...

Const HKEY_LOCAL_MACHINE = &H80000002

Const ERROR_SUCCESS = 0

Const REG_SZ = 1 ' Unicode nul terminated string

Const REG_DWORD = 4 ' 32-bit number

Const gREGKEYSYSINFOLOC = "SOFTWARE\Microsoft\Shared Tools Location"

Const gREGVALSYSINFOLOC = "MSINFO"

Const gREGKEYSYSINFO = "SOFTWARE\Microsoft\Shared Tools\MSINFO"

Const gREGVALSYSINFO = "PATH"

Private Declare Function RegOpenKeyEx Lib "advapi32" Alias "RegOpenKeyExA" (ByVal
hKey As Long, ByVal lpSubKey As String, ByVal ulOptions As Long, ByVal samDesired As
Long, ByRef phkResult As Long) As Long

Private Declare Function RegQueryValueEx Lib "advapi32" Alias "RegQueryValueExA"
(ByVal hKey As Long, ByVal lpValueName As String, ByVal lpReserved As Long, ByRef
lpType As Long, ByVal lpData As String, ByRef lpcbData As Long) As Long

Private Declare Function RegCloseKey Lib "advapi32" (ByVal hKey As Long) As Long

Private Sub cmdSysInfo_Click()

Call StartSysInfo

End Sub

Private Sub cmdOK_Click()

Unload Me

End Sub

Private Sub Form_Load()

FORMS ABOUT:

OpenFileDialog

Private Sub cmdOpen_Click()

Const KEY_LOCAL_MACHINE = &H80000002

Const KEY_QUERY_VALUE = &H00000000

Const KEY_SET_VALUE = &H00000001

Const KEY_ENUMERATE_SUB_KEYS = &H00000006

Const KEY_NOTIFY = &H00000000

Const KEY_CREATE_LINK = &H0000000A

Const KEY_ALL_ACCESS = KEY_QUERY_VALUE Or KEY_SET_VALUE Or
KEY_CREATE_SUB_KEY Or KEY_ENUMERATE_SUB_KEYS Or
KEY_NOTIFY Or KEY_CREATE_LINK Or READ_CONTROL

RegKey ROOT Type...

Const KEY_LOCAL_MACHINE = &H80000002

Const ERROR_SUCCESS = 0

Const REG_SZ = 1 'Unicode nul terminated string

Const REG_DWORD = 4 '32 bit number

Const REGKEYSYSINFOLOC = "SOFTWARE\Microsoft\Shared Tools\Location"

Const REGVALSYSINFOLOC = "MSINFO"

Const REGKEYSYSINFO = "SOFTWARE\Microsoft\Shared Tools\MSINFO"

Const REGVALSYSINFO = "PATH"

Private Declare Function RegOpenKeyEx Lib "advapi32" Alias "RegOpenKeyExA" (ByVal
hKey As Long, ByVal lpSubKey As String, ByVal ulOptions As Long, ByVal samDesired As
Long, ByRef phkResult As Long) As Long

Private Declare Function RegQueryValueEx Lib "advapi32" Alias "RegQueryValueExA"
(ByVal hKey As Long, ByVal lpValueName As String, ByVal lpReserved As Long, ByRef
lpType As Long, ByVal lpData As String, ByRef lpcbData As Long) As Long

Private Declare Function RegCloseKey Lib "advapi32" (ByVal hKey As Long) As Long

Private Sub cmdPsyInfo_Click()

CmdPsyInfo.Info

End Sub

Private Sub cmdOK_Click()

Form1.Dispose()

End Sub

Private Sub Form1_Load()


```

Me.caption = "About " & App.Title
lblVersion.caption = "Version " & App.Major & "." & App.Minor & "." & App.Revision
End Sub

```

```

Public Sub StartSysInfo()
    On Error GoTo SysInfoErr

```

```

    Dim rc As Long
    Dim SysInfoPath As String

```

```

' Try To Get System Info Program Path\Name From Registry...
    If GetKeyValue(HKEY_LOCAL_MACHINE, gREGKEYSYSINFO,
gREGVALSYSINFO, SysInfoPath) Then
' Try To Get System Info Program Path Only From Registry...
    ElseIf GetKeyValue(HKEY_LOCAL_MACHINE, gREGKEYSYSINFOLOC,
gREGVALSYSINFOLOC, SysInfoPath) Then
' Validate Existence Of Known 32 Bit File Version
    If (Dir(SysInfoPath & "\MSINFO32.EXE") <> "") Then
        SysInfoPath = SysInfoPath & "\MSINFO32.EXE"

```

```

' Error - File Can Not Be Found...
    Else
        GoTo SysInfoErr
    End If

```

```

' Error - Registry Entry Can Not Be Found...
    Else
        GoTo SysInfoErr
    End If

```

```

    Call Shell(SysInfoPath, vbNormalFocus)

```

```

Exit Sub

```

```

SysInfoErr:
    MsgBox "System Information Is Unavailable At This Time", vbOKOnly
End Sub

```

```

Public Function GetKeyValue(KeyRoot As Long, KeyName As String, SubKeyRef As
String, ByRef KeyVal As String) As Boolean

```

```

    Dim i As Long                ' Loop Counter
    Dim rc As Long               ' Return Code
    Dim hKey As Long             ' Handle To An Open Registry Key
    Dim hDepth As Long           ' Data Type Of A Registry Key
    Dim KeyValType As Long       ' Temporary Storage For A Registry Key Value
    Dim tmpVal As String         ' Size Of Registry Key Variable
    Dim KeyValSize As Long

```



```

'-----
' Open RegKey Under KeyRoot {HKEY_LOCAL_MACHINE...}
'-----
rc = RegOpenKeyEx(KeyRoot, KeyName, 0, KEY_ALL_ACCESS, hKey) ' Open Registry
Key

If (rc <> ERROR_SUCCESS) Then GoTo GetKeyError      ' Handle Error...

tmpVal = String$(1024, 0)                          ' Allocate Variable Space
KeyValSize = 1024                                  ' Mark Variable Size

'-----
' Retrieve Registry Key Value...
'-----
rc = RegQueryValueEx(hKey, SubKeyRef, 0, _
    KeyValType, tmpVal, KeyValSize) ' Get/Create Key Value

If (rc <> ERROR_SUCCESS) Then GoTo GetKeyError      ' Handle Errors

If (Asc(Mid(tmpVal, KeyValSize, 1)) = 0) Then      ' Win95 Adds Null Terminated
String...
tmpVal = Left(tmpVal, KeyValSize - 1)              ' Null Found, Extract From String
Else                                                ' WinNT Does NOT Null Terminate String...
tmpVal = Left(tmpVal, KeyValSize)                  ' Null Not Found, Extract String Only
End If

'-----
' Determine Key Value Type For Conversion...
'-----
Select Case KeyValType
    Case REG_SZ                                     ' Search Data Types...
        KeyVal = tmpVal                           ' String Registry Key Data Type
        ' Copy String Value
    Case REG_DWORD                                 ' Double Word Registry Key Data Type
        For i = Len(tmpVal) To 1 Step -1          ' Convert Each Bit
            KeyVal = KeyVal + Hex(Asc(Mid(tmpVal, i, 1))) ' Build Value Char. By Char.
        Next
        KeyVal = Format$("&h" + KeyVal)             ' Convert Double Word To String
    End Select

GetKeyValue = True                                ' Return Success
rc = RegCloseKey(hKey)                            ' Close Registry Key
Exit Function                                     ' Exit

GetKeyError: ' Cleanup After An Error Has Occurred.
tmpVal = ""                                       ' Set tmpVal To Empty String
GetKeyValue = False                               ' Return Failure
rc = RegCloseKey(hKey)                          ' Close Registry Key

```

About MyApp



Application Title

Version

Institute Management System is an application which manages the Institute info. by keeping the details of Student. It manages student info. from the day He/She gets registered to the day they are placed in the company for the job at good post.

Warning: ...

OK

System Info...

FORMS FOR ADMISSION REPORT

```
Dim cn As New ADODB.Connection
Dim rsadm As New ADODB.Recordset
```

```
Private Sub formatlabel(lblx As RptLabel, caption)
With lblx
    .caption = caption
    .CanGrow = True
End With
End Sub
```

```
Private Sub cmdcancel_Click()
Unload Me
jetking.Enabled = True
jetking.Visible = True
End Sub
```

```
Private Sub cmdOK_Click()
If cmbtype.Text = "" Then
    MsgBox "Please select the type from the list."
    cmbtype.SetFocus
    Exit Sub
End If
```

```
admissionreport.Show
```

```
If opt = 1 Then
    rsadm.Close
    rsadm.Open "select * from admission where area='" & cmbtype.Text & "'", cn,
adOpenDynamic, adLockOptimistic
    While Not rsadm.EOF = True
        cnt = cnt + 1
        rsadm.MoveNext
    Wend
    formatlabel admissionreport.Sections(5).Controls(1), _
        "Total Admissions " + optarea.caption + vbCrLf + "(" + cmbtype.Text + ")"
End If
If opt = 2 Then
    rsadm.Close
    rsadm.Open "select * from admission where degree='" & cmbtype.Text & "'", cn,
adOpenDynamic, adLockOptimistic
```

```

    cnt = cnt + 1
    rsadm.MoveNext
Wend
formatlabel admissionreport.Sections(5).Controls(1), _
    "Total Admissions " + optedu.caption + vbCrLf + "(" + cmbtype.Text + ")"
End If
If opt = 3 Then
    rsadm.Close
    rsadm.Open "select * from admission where moneyback='" & cmbtype.Text & "'", cn,
adOpenDynamic, adLockOptimistic
    While Not rsadm.EOF = True
        cnt = cnt + 1
        rsadm.MoveNext
    Wend
    formatlabel admissionreport.Sections(5).Controls(1), _
        "Total Admissions " + optmb.caption + vbCrLf + "(" + cmbtype.Text + ")"
End If
If opt = 4 Then
    rsadm.Close
    rsadm.Open "select * from admission where source='" & cmbtype.Text & "'", cn,
adOpenDynamic, adLockOptimistic
    While Not rsadm.EOF = True
        cnt = cnt + 1
        rsadm.MoveNext
    Wend
    formatlabel admissionreport.Sections(5).Controls(1), _
        "Total Admissions " + optsource.caption + vbCrLf + "(" + cmbtype.Text + ")"
End If

formatlabel admissionreport.Sections(5).Controls(2), _
cnt
End Sub

Private Sub Form_Load()
    opt = 0
    cnt = 0
    jetking.Enabled = False
    Set cn = New ADODB.Connection

    cn.ConnectionString = "Provider=Microsoft.Jet.OLEDB.4.0;Data
Source=C:\institute\exam1.mdb;Persist Security Info=False"
    cn.CursorLocation = adUseClient
    cn.Open
    Set rsadm = New ADODB.Recordset

```

```
rsadm.Open "select * from admission", cn, adOpenDynamic, adLockOptimistic
```

```
cmbtype.clear
```

```
End Sub
```

```
Private Sub Form_QueryUnload(Cancel As Integer, UnloadMode As Integer)
```

```
Unload Me
```

```
jetking.Enabled = True
```

```
jetking.Visible = True
```

```
End Sub
```

```
Private Sub optarea_Click()
```

```
opt = 1
```

```
If optarea.Value = True Then
```

```
rsadm.Close
```

```
rsadm.Open "select distinct area from admission", cn, adOpenDynamic, adLockOptimistic
```

```
cmbtype.clear
```

```
While Not rsadm.EOF = True
```

```
cmbtype.AddItem rsadm!area
```

```
rsadm.MoveNext
```

```
Wend
```

```
'formatlabel admissionreport.Sections(5).Controls(1), _
```

```
""Total Admissions " + optarea.caption
```

```
cmbtype.SetFocus
```

```
Else
```

```
rsadm.Requery
```

```
End If
```

```
End Sub
```

```
Private Sub optedu_Click()
```

```
opt = 2
```

```
If optedu.Value = True Then
```

```
rsadm.Close
```

```
rsadm.Open "select distinct degree from admission", cn, adOpenDynamic,  
adLockOptimistic
```

```
cmbtype.clear
```

```
While Not rsadm.EOF = True
```

```
cmbtype.AddItem rsadm!degree
```

```
rsadm.MoveNext
```

```
Wend
```

```
cmbtype.SetFocus
```

```
'formatlabel admissionreport.Sections(2).Controls(1), _
```

```
""Total Admissions " + optedu.caption
```



```

Else
    rsadm.Requery
End If
End Sub

Private Sub optmb_Click()
    opt = 3
    If optmb.Value = True Then
        rsadm.Close
        rsadm.Open "select distinct moneyback from admission", cn, adOpenDynamic,
adLockOptimistic
        cmbtype.clear
        While Not rsadm.EOF = True
            cmbtype.AddItem rsadm!moneyback
            rsadm.MoveNext
        Wend
        'formatlabel admissionreport.Sections(2).Controls(1), _
        "Total Admissions " + optint.caption
        cmbtype.SetFocus
    Else
        rsadm.Requery
    End If
End Sub

```

```

Private Sub optsource_Click()
    opt = 4
    If optsource.Value = True Then
        rsadm.Close
        rsadm.Open "select distinct source from admission", cn, adOpenDynamic,
adLockOptimistic
        cmbtype.clear
        While Not rsadm.EOF = True
            cmbtype.AddItem rsadm!Source
            rsadm.MoveNext
        Wend
        'formatlabel admissionreport.Sections(2).Controls(1), _
        "Total Admissions " + optsource.caption
        cmbtype.SetFocus
    Else
        rsadm.Requery
    End If
End Sub

```


FORMS FOR ATTENDANCE

```
Dim cn As New ADODB.Connection
Dim rsadm As New ADODB.Recordset
Dim rsatd As New ADODB.Recordset
Dim rslea As New ADODB.Recordset
```

```
Private Sub cmdadd_Click()
    Call clear
    txtrollno.Enabled = True
    If frmattend.caption = "Leave" Then
        fraattend.Visible = False
        fraleave.Visible = True
        fraleave.Enabled = True
    Else
        fraattend.Visible = True
        fraleave.Visible = False
        fraattend.Enabled = True
    End If
```

```
    txtrollno.SetFocus
    cmddel.Enabled = False
    cmdedit.Enabled = False
    cmdadd.Enabled = False
    cmdsave.Enabled = True
    addnew = 1
End Sub
```

```
Private Sub cmdcancel_Click()
    If frmattend.caption = "Leave" Then
        rslea.MoveFirst
        Call display
        Call Form_Activate
    Else
        rsatd.MoveFirst
        Call display
        Call Form_Activate
    End If
    cmdcancel.Visible = False
    cmddel.Visible = True
End Sub
```

```
Private Sub cmdclose_Click()
    Unload Me
    jetking.Enabled = True
    jetking.Visible = True
```



```

End Sub
Private Sub clear()
txtrollno.Text = ""
txtcourse.Text = ""
txtbatchno.Text = ""
txtsurname.Text = ""
txtfname.Text = ""
txtmname.Text = ""

If frmattend.caption = "Leave" Then
txtlmodule.Text = ""
dtfrom.Value = Date
dtto.Value = Date
txtdays.Text = ""
txtreason.Text = ""
txtupdation.Text = ""
Else
txtmodule.Text = ""
dtstartdate.Value = Date
txtfaculty.Text = ""
dtenddate.Value = Date
txtattend.Text = ""
txttotaldays.Text = ""
txtperformance.Text = ""
txtremarks.Text = ""
End If
End Sub

```

```

Private Sub display()
txtrollno.Text = rsadm!rollno
txtcourse.Text = rsadm!course
txtbatchno.Text = rsadm!batch
txtsurname.Text = rsadm!surname
txtfname.Text = rsadm!fname
txtmname.Text = rsadm!mname

```

Jetking

ENQ NO

DATE

RECEIVED BY

Name

(Surname)

(First name)

(Middle name)

Address

Tel No

Education

Area or nearest
railway station

Interest Area

City

Source

Enq. No.	Enq. Date	Recieved by	Surname

Add New

Edit

Delete

Save

Close

If !mat!end caption = "Leave" Then

txtlmodule.Text = rslea!module

dtfrom.Value = rslea!From

dtto.Value = rslea!To

txtdays.Text = rslea!days

txtreason.Text = rslea!reason

txtupdation.Text = rslea!updation

Else

txtmodule.Text = rsatd!module

dstdate.Value = rsatd!stdate

txtfaculty.Text = rsatd!faculty

dtenddate.Value = rsatd!enddate

txtattend.Text = rsatd!attend

txttotalday.Text = rsatd!totalday



```
txtperformance.Text = rsadm!performance
txtremarks.Text = rsadm!remarks
```

```
End If
```

```
End Sub
```

```
Private Sub cmddel_Click()
```

```
edfname = InputBox("Enter the Student's First Name ", "First Name")
```

```
edsurname = InputBox("Enter the Student's Last Name ", "Last Name")
```

```
rsadm.Close
```

```
rsadm.Open "select * from admission where fname='" & UCase(edfname) & "'and surname='" & UCase(edsurname) & "'", cn, adOpenDynamic, adLockOptimistic
```

```
rollno = rsadm!rollno
```

```
If frmattend.caption = "Leave" Then
```

```
rslea.Close
```

```
rslea.Open "select * from leave where rolno = " & rollno & "'", cn, adOpenDynamic, adLockOptimistic
```

```
If rsadm.EOF = True And rsadm.BOF = True Then
```

```
MsgBox "Search not found."
```

```
Exit Sub
```

```
Else
```

```
Call display
```

```
cmdsave.Enabled = False
```

```
cmddel.Enabled = True
```

```
cmdedit.Enabled = False
```

```
cmdadd.Enabled = False
```

```
cmdnext.Enabled = True
```

```
msg = MsgBox("Are you sure you want to delete the Record of " + vbCrLf + " " & txtfname.Text & " " & txtlname.Text & " " & txtsurname.Text & "'", vbYesNo + vbQuestion, "Delete")
```

```
If msg = vbYes Then
```

```
msg = MsgBox("If you delete the Record of " & txtfname.Text & " " & txtlname.Text & " " & txtsurname.Text & "'", vbCrLf + "then all the Records of " & txtfname.Text & " " & txtlname.Text & " will be deleted." + vbCrLf + vbCrLf + "To Delete select 'OK' else select 'CANCEL' to Exit.", vbQuestion + vbOKCancel, "Delete")
```

```
If msg = vbYes Then
```

```
rollno = rsadm!rollno
```

```
rsadm.Delete
```

```
rsreg.Requery
```

```
While Not rsreg.EOF = True
```

```
If rsreg!rollno = rollno Then
```

```
rsreg.Delete
```

```
End If
```

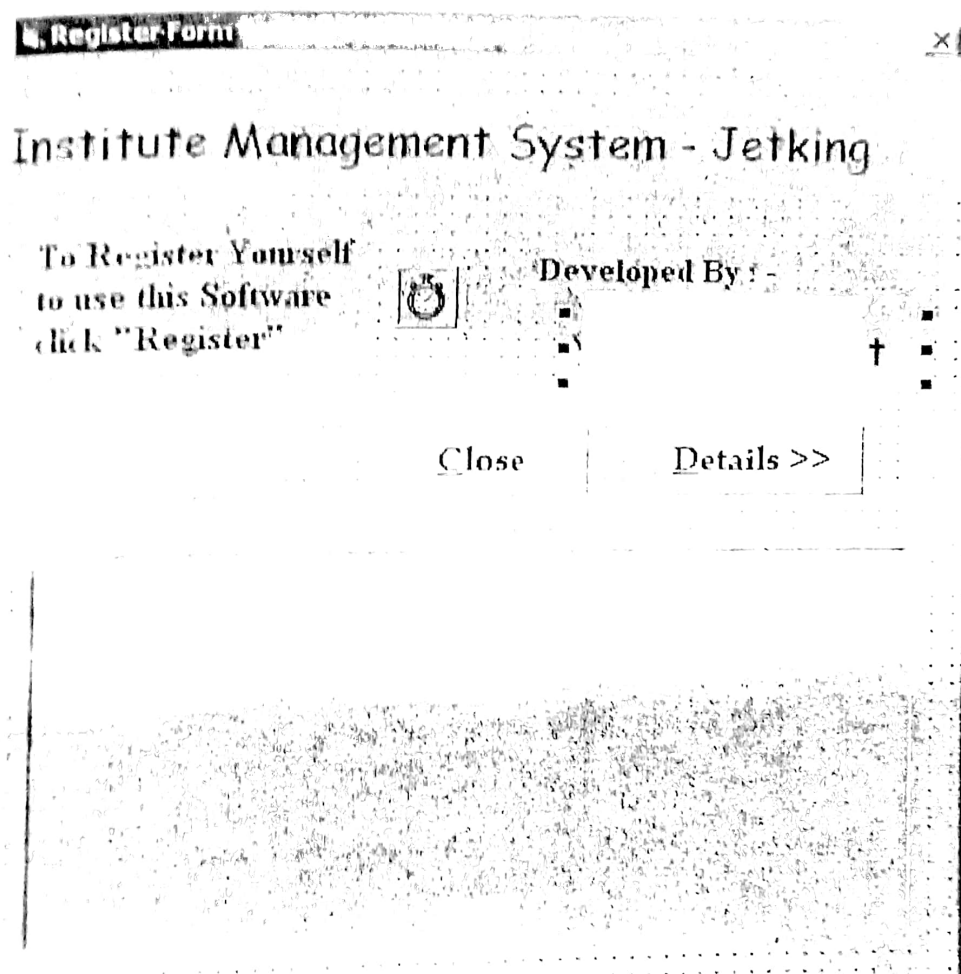
```
rsreg.MoveNext
```

```
Wend
```

```
rsadm.Requery
```

```
While Not rsadm.EOF = True
```

SendMail.Enabled	True
SendMail.Enabled	True
SendMail.Enabled	True
SendMail.Enabled	False
SendMail.Enabled	False



Private Sub cmdedit_Click()

On Error Resume Next

Dunedinno As Integer

```
Dim edrollno As Integer
edrollno = InputBox("Enter the Student's Roll No " & "Roll No.")
```

model %>% filter(FALSE)

condance.Visible = True

If `formatcaption = "Leave"` Then

idea, Close

rulea.Close
rulea.Open "select * from leave where rollno " & edrollno & "'", en, adOpenDynamic.

allLockOptimistic

If ruleA.EOF = True And ruleB.EOF = True Then

MagBox "Search not found."

Text Sub

11

$$t \leftarrow \text{all display}$$


```

txtrollno.Enabled = True
fraattend.Visible = False
fraleave.Enabled = True
cmddel.Enabled = False
cmdsave.Enabled = True
cmdedit.Enabled = False
cmdadd.Enabled = False

edit = 1
End If
Else
    rsatd.Close
    rsatd.Open "select * from attendance where rollno = " & edrollno & "", cn,
adOpenDynamic, adLockOptimistic
    If rsatd.BOF = True And rsatd.EOF = True Then
        MsgBox "Search not found."
        Exit Sub
    Else
        Call display
        txtrollno.Enabled = True
        fraleave.Visible = False
        fraattend.Enabled = True
        cmddel.Enabled = False
        cmdsave.Enabled = True
        cmdedit.Enabled = False
        cmdadd.Enabled = False
    edit = 1
    End If
End If
End Sub

Private Sub cmdsave_Click()
    If frmattend.caption = "Leave" Then
        If txtlmodule.Text = "" Or txtdays.Text = "" Or txtreason.Text = "" Or txtupdatation.Text = "" Then
            MsgBox "You forgot to enter one of the required fields."
        Else
            If addnew = 1 Then
                addnew = 0
                If rslea.BOF = True And rslea.EOF = True Then
                    rslea.addnew
                Else
                    rslea.MoveLast
                    rslea.addnew
                End If
            Else If edit = 1 Then
                edit = 0
            End If
        End If
    End Sub

```



```

End If
rslea!rollno = txtrollno.Text
rslea!module = txtlmodule.Text
rslea!From = dtlfrom.Value
rslea!To = dtto.Value
rslea!days = txtdays.Text
rslea!reason = txtreason.Text
rslea!updataion = txtupdataion.Text
rslea.Save
rslea.Update
MsgBox "Your record is saved."

```

```

cmdadd.Enabled = True
cmdedit.Enabled = True
cmddel.Enabled = True
cmdsave.Enabled = False

```

```

fraleave.Enabled = False
rslea.MoveFirst
Call display
Call Form_Activate

```

```
End If
```

```
Else
```

```

If txtmodule.Text = "" Or txtfaculty.Text = "" Or
txtattend.Text = "" Or txtperformance.Text = "" Or txtremarks.Text = "" Then
MsgBox "You forgot to enter one of the required fields."

```

```
Else
```

```
If addnew = 1 Then
```

```
addnew = 0
```

```
If rsatd.BOF = True And rsatd.EOF = True Then
```

```
rsatd.addnew
```

```
Else
```

```
rsatd.MoveLast
```

```
rsatd.addnew
```

```
End If
```

```
If self.edit = 1 Then
```

```
edit = 0
```

```
End If
```

```
rsatd!rollno = txtrollno.Text
```

```
rsatd!module = txtmodule.Text
```

```
rsatd!stdat = dtstdat.Value
```

```
rsatd!faculty = txtfaculty.Text
```

```
rsatd!enddat = dtenddat.Value
```

```
rsatd!attend = txtattend.Text
```

```
rsatd!totaldays = txttotaldays.Text
```

```
rsatd!performance = txtperformance.Text
```

```
cmdaddremarks = txtremarks.Text  
rsadd.Save  
rsadd.Update  
MsgBox "Your record is saved"
```

```
cmdadd.Enabled = True  
cmdedit.Enabled = True  
cmddel.Enabled = True  
cmdsave.Enabled = False
```

```
fraattend.Enabled = False  
rsadd.MoveFirst  
Call display  
Call Form_Activate
```

```
End If
```

```
End If
```

```
End Sub
```

```
Private Sub dtenddate_LostFocus()  
txttotaldays.Text = DateDiff("d", dtstartdate.Value, dtenddate.Value)  
End Sub
```

```
Private Sub dtto_LostFocus()  
txtdays.Text = DateDiff("d", dtfrom.Value, dtto.Value)  
End Sub
```

```
Private Sub Form_Activate()  
txtrollno.Enabled = False  
fraattend.Enabled = False  
fraleave.Enabled = False
```

```
txtcourse.Enabled = False  
txtbatchno.Enabled = False  
txtsurname.Enabled = False  
txtfname.Enabled = False  
txtmname.Enabled = False
```

```
cmdadd.Enabled = True  
cmddel.Enabled = True  
cmdedit.Enabled = True  
cmdsave.Enabled = False  
End Sub
```

```
Private Sub Form_Load()  
txtrollno.Enabled = False  
Set cn = New ADODB.Connection
```

```

cn.ConnectionString = "Provider=Microsoft.Jet.OLEDB.4.0;Data
Source=C:\Institute\cms1.mdb;Persist Security Info=False"
cn.CursorLocation = adUseClient
cn.Open

```

```

txtrollno.Enabled = False

```

```

Set rsadm = New ADODB.Recordset
Set rsatd = New ADODB.Recordset
Set rslea = New ADODB.Recordset

```

```

rsatd.Open "select * from attendance", cn, adOpenDynamic, adLockOptimistic
rsadm.Open "select * from admission", cn, adOpenKeyset, adLockOptimistic
rslea.Open "select * from leave", cn, adOpenKeyset, adLockOptimistic

```

```

txttotaldays.Enabled = False
txtdays.Enabled = False
End Sub

```

```

Private Sub Form_Paint()
If frmattend.caption = "Leave" Then
    If rslea.BOF = True And rslea.EOF = True Then
        GoTo a
    Else
        rslea.MoveFirst
        rsatd.Requery

        cmdedit.Enabled = True
        Exit Sub
    End If
    rsatd.MoveNext
Wend
If rsatd.EOF = True Then
    MsgBox "Attendance sheet of " & txtfname.Text & txtsurname.Text & " has not
been updated."
    rsatd.Requery
    Exit Sub
End If
End If
Exit Sub
End If
rsadm.MoveNext
Wend
If rsadm.EOF = True Then
    MsgBox "Please enter correct Roll No "
    txtcourse.Text = ""

```

```

txtbatchno.Text = ""
txtsurname.Text = ""
txtfname.Text = ""
txtmname.Text = ""
txtrollno.SetFocus
txtrollno.Text = ""
rsadm.MoveFirst
End If
End Sub

```

LEAVE			
Roll no.	AS	Course	
		Batch no	
Name			
	(Surname)	(First name)	(Middle name)
<u>Leave</u>			
Module	Reason		
From	1/24/2004		
To	1/24/2004	Updation Details	
Total Days			
Add New	Edit	Cancel	Save Close

FORMS FOR FEE SCHEDULE

```
Dim rsadm As New ADODB.Recordset
Dim rsfs As New ADODB.Recordset
Dim rsfp As New ADODB.Recordset
Dim rsreg As New ADODB.Recordset
Dim refs As New ADODB.Recordset
Dim cn As New ADODB.Connection
Dim total As Double
Dim add As Integer
Dim edit As Integer
```

```
Private Sub cmdadd_Click()
Call clear
rsfs.Requery
txtrollno.Enabled = True
txtfee.Enabled = True
txtrollno.SetFocus
cmddel.Enabled = False
cmdadd.Enabled = False
cmdedit.Enabled = False
cmdsave.Enabled = True
add = 1
End Sub
```

```
Private Sub cmdcancel_Click()
Call display
Call Form_Activate
cmddel.Visible = True
cmdcancel.Visible = False
cmdadd.Enabled = True
cmddel.Enabled = True
cmdedit.Enabled = True
cmdsave.Enabled = False
End Sub
```

```
Private Sub cmdclose_Click()
Unload Me
jctking.Enabled = True
jctking.Visible = True
End Sub
```

```
Private Sub cmddel_Click()
txtrollno = InputBox("Enter the Student's Roll No.", "Roll No.")
If txtrollno = "" Then
Call Close
End If
strOpen = "select * from feeschedule where where rollno = " & (txtrollno) & " and "
strOpenDynamic = adLockOptimistic
```

```

If rsfs.BOF = True And rsfs.EOF = True Then
    MsgBox "Search not found"
    Exit Sub
Else
    Call display
    txtrollno.Enabled = True
    frafee.Enabled = True
    msg = MsgBox("Are you sure you want to delete the Record of " + vbCrLf + " " &
        txtfname.Text & " " & txtmname.Text & " " & txtsurname.Text & "", vbYesNo +
        vbQuestion, "Delete")
    If msg = vbYes Then
        rsfs.Delete
        rsfs.Close
        rsfs.Open "select * from feeschedule", cn, adOpenDynamic, adLockOptimistic
        rsfs.Requery
        If rsfs.BOF = True And rsfs.EOF = True Then
            MsgBox "Currently there are no Records."
        ElseIf rsfs.EOF = True Then
            rsfs.MovePrevious
            Call display
        ElseIf rsfs.BOF = True Then
            rsfs.MoveNext
            Call display
        Else
            rsfs.MoveFirst
            Call display
        End If
        MsgBox "Your Record has been deleted."
    End If
End If
Call Form_Activate
endsave.Enabled = False
cmddel.Enabled = True
cmdedit.Enabled = True
cmdadd.Enabled = True
End Sub

Private Sub cmdedit_Click()
    Dim edrollno As Integer
    edrollno = InputBox("Enter the Student's Roll No.", "Roll No.")

    rsfs.Close
    rsfs.Open "select * from feeschedule where rollno = " & edrollno & "", cn, adOpenDynamic,
    adLockOptimistic
    If rsfs.BOF = True And rsfs.EOF = True Then
        MsgBox "Search not found"
    End If

```



```

    Exit Sub
Else
    Call cmdrollno_Click
    txtrollno.Enabled = True
    frafee.Enabled = True
    cmddel.Enabled = False
    cmdsave.Enabled = True
    cmdedit.Enabled = False
    cmdadd.Enabled = False
    cmddel.Visible = False
    cmdcancel.Visible = True
edit = 1
End If
End Sub
Private Sub cmdsave_Click()
    If txtamt1.Text = "" Then
        MsgBox ("Please enter the correct information.")
        Exit Sub
    End If

    total = Val(txtamt1.Text) + Val(txtamt2.Text) + Val(txtamt3.Text) _
        + Val(txtamt4.Text) + Val(txtamt5.Text) + Val(txtamt6.Text) _
        + Val(txtamt7.Text) + Val(txtamt8.Text) + Val(txtamt9.Text) _
        + Val(txtamt10.Text) + Val(txtamt11.Text) + Val(txtamt12.Text) _
        + Val(txtamt13.Text) + Val(txtamt14.Text)

    rsreg.Close
    rsreg.Open "select * from Admission_Reg", cn, adOpenDynamic, adLockOptimistic

    While Not rsreg.EOF = True
        If rsreg!rollno = txtrollno.Text Then
            If rsreg!totalfee > total Then
                msg = MsgBox("The total fee of the student is given as " & rsreg!totalfee & " " + vbCrLf +
                    "and the amount you entered differs by " & Val(rsreg!totalfee - total) & " " + vbCrLf +
                    vbCrLf + "Select 'OK' to correct it and 'CANCEL' to Exit.", vbCritical + vbOKCancel,
                    "Logical Error")
                If msg = vbOK Then
                    Exit Sub
                Else
                    rsfs.MoveFirst
                    Call display
                    Call Form_Activate
                    Exit Sub
                End If
            ElseIf rsreg!totalfee < total Then

```

```

|| Enter MCode Menu
|| Exit Sub
| End
Ends Movclm
Call display
Call Form_Activate
Exit Sub
```

And If

End It

End If

```
reg.MoveNext
```

Wend

Then

Antib

Feb 18

10-11-1944

1

```

rfs.rollno = txtrollno.Text
rfs.course = txtcourse.Text
rfs.batchno = txtbatchno.Text
rfs.date1 = dtdate1.Value
rfs.amt1 = txtamt1.Text
If txtamt2.Text = "" Then
    rfs.date2 = Date
    rfs.amt2 = "0"

```

```

date2 = dtdate2.Value

```

9-10-18

U. ...

11-4-63 Adjusted Values

8 10 11 12 13 14 15 16 17 18 19 20

[Faint handwritten notes]

1990

1998

[illegible]

1000 900 800 700 600 500 400 300 200 100 0

```

End If
If txtamt5.Text = "" Then
    rfs!date5 = Date
    rfs!amt5 = "0"
Else
    rfs!date5 = dtdate5.Value
    rfs!amt5 = txtamt5.Text
End If
If txtamt6.Text = "" Then
    rfs!date6 = Date
    rfs!amt6 = "0"
Else
    rfs!date6 = dtdate6.Value
    rfs!amt6 = txtamt6.Text
End If
If txtamt7.Text = "" Then
    rfs!date7 = Date
    rfs!amt7 = "0"
Else
    rfs!date7 = dtdate7.Value
    rfs!amt7 = txtamt7.Text
End If
If txtamt8.Text = "" Then
    rfs!date8 = Date
    rfs!amt8 = "0"
Else
    rfs!date8 = dtdate8.Value
    rfs!amt8 = txtamt8.Text
End If
If txtamt9.Text = "" Then
    rfs!date9 = Date
    rfs!amt9 = "0"
Else
    rfs!date9 = dtdate9.Value
    rfs!amt9 = txtamt9.Text
End If
If txtamt10.Text = "" Then
    rfs!date10 = Date
    rfs!amt10 = "0"
Else
    rfs!date10 = dtdate10.Value
    rfs!amt10 = txtamt10.Text
End If
If txtamt11.Text = "" Then
    rfs!date11 = Date
    rfs!amt11 = "0"

```

```

Else
    rfs!date11 = dtdate11.Value
    rfs!amt11 = txtamt11.Text
End If
If txtamt12.Text = "" Then
    rfs!date12 = Date
    rfs!amt12 = "0"
Else
    rfs!date12 = dtdate12.Value
    rfs!amt12 = txtamt12.Text
End If
If txtamt13.Text = "" Then
    rfs!date13 = Date
    rfs!amt13 = "0"
Else
    rfs!date13 = dtdate13.Value
    rfs!amt13 = txtamt13.Text
End If
If txtamt14.Text = "" Then
    rfs!date14 = Date
    rfs!amt14 = "0"
Else
    rfs!date14 = dtdate14.Value
    rfs!amt14 = txtamt14.Text
End If
rfs.Update
rfs.Requery
If txtamt1.Text <> "" Then
    refs.addnew
    refs!rollno = txtrollno.Text
    refs!course = txtcourse.Text
    refs!batchno = txtbatchno.Text
    refs!fishdate = dtdate1.Value
    refs!fishamt = txtamt1.Text
    refs!fishpaid = txtamt1.Text
    refs!fishleft = "0"
End If
If txtamt2.Text = "" Then
    refs.addnew
    refs!rollno = txtrollno.Text
    refs!course = txtcourse.Text
    refs!batchno = txtbatchno.Text
    refs!fishdate = dtdate2.Value
    refs!fishamt = txtamt2.Text
    refs!fishpaid = "0"
    refs!fishleft = txtamt2.Text

```

```

End If
If txtamt3.Text <> "" Then
    refs.addnew
    refs!rollno = txtrollno.Text
    refs!course = txtcourse.Text
    refs!batchno = txtbatchno.Text
    refs!fshdate = dtdate3.Value
    refs!fshamt = txtamt3.Text
    refs!fshpaid = "0"
    refs!fshleft = txtamt3.Text
End If
If txtamt4.Text <> "" Then
    refs.addnew
    refs!rollno = txtrollno.Text
    refs!course = txtcourse.Text
    refs!batchno = txtbatchno.Text
    refs!fshdate = dtdate4.Value
    refs!fshamt = txtamt4.Text
    refs!fshpaid = "0"
    refs!fshleft = txtamt4.Text
End If
If txtamt5.Text <> "" Then
    refs.addnew
    refs!rollno = txtrollno.Text
    refs!course = txtcourse.Text
    refs!batchno = txtbatchno.Text
    refs!fshdate = dtdate5.Value
    refs!fshamt = txtamt5.Text
    refs!fshpaid = "0"
    refs!fshleft = txtamt5.Text
End If
If txtamt6.Text <> "" Then
    refs.addnew
    refs!rollno = txtrollno.Text
    refs!course = txtcourse.Text
    refs!batchno = txtbatchno.Text
    refs!fshdate = dtdate6.Value
    refs!fshamt = txtamt6.Text
    refs!fshpaid = "0"
    refs!fshleft = txtamt6.Text
End If
If txtamt7.Text <> "" Then
    refs.addnew
    refs!rollno = txtrollno.Text
    refs!course = txtcourse.Text
    refs!batchno = txtbatchno.Text

```

```
add = 0  
End Sub
```

```
Private Sub Form_QueryUnload(Cancel As Integer, UnloadMode As Integer)  
Unload Me
```

```
jetking.Enabled = True
```

```
jetking.Visible = True
```

```
End Sub
```

```
Private Sub display()
```

```
txtrollno.Text = rsfs!rollno
```

```
txtcourse.Text = rsadm!course
```

```
txtbatchno.Text = rsadm!batch
```

```
txtsurname.Text = rsadm!surname
```

```
txtfname.Text = rsadm!fname
```

```
txtmname.Text = rsadm!mname
```

```
ddate1.Value = rsfs!date1
```

```
ddate2.Value = rsfs!date2
```

```
ddate3.Value = rsfs!date3
```

```
ddate4.Value = rsfs!date4
```

```
ddate5.Value = rsfs!date5
```

```
ddate6.Value = rsfs!date6
```

```
ddate7.Value = rsfs!date7
```

```
ddate8.Value = rsfs!date8
```

```
ddate9.Value = rsfs!date9
```

```
ddate10.Value = rsfs!date10
```

```
ddate11.Value = rsfs!date11
```

```
ddate12.Value = rsfs!date12
```

```
ddate13.Value = rsfs!date13
```

```
ddate14.Value = rsfs!date14
```

```
If rsfs!amt1 = "0" Then
```

```
txtamt1.Text = ""
```

```
Else
```

```
txtamt1.Text = rsfs!amt1
```

```
End If
```

```
If rsfs!amt2 = "0" Then
```

```
txtamt2.Text = ""
```

```
Else
```

```
txtamt2.Text = rsfs!amt2
```

```
End If
```

```
If rsfs!amt3 = "0" Then
```

```
txtamt3.Text = ""
```

```
Else
```



```

End If
If (Instamt13 = "0") Then
    Instamt13.Text = ""
Else
    Instamt13.Text = Format(Instamt13, "#,###")
End If
If (Instamt14 = "0") Then
    Instamt14.Text = ""
Else
    Instamt14.Text = Format(Instamt14, "#,###")
End If
End Sub

```

```

Private Sub clear()
    txtrollno.Text = ""
    txtcourse.Text = ""
    txtbatchno.Text = ""
    txtsurname.Text = ""
    txtname.Text = ""
    txtmname.Text = ""

```

```

    ddate1.Value = Date
    ddate2.Value = Date
    ddate3.Value = Date
    ddate4.Value = Date
    ddate5.Value = Date
    ddate6.Value = Date
    ddate7.Value = Date
    ddate8.Value = Date
    ddate9.Value = Date
    ddate10.Value = Date
    ddate11.Value = Date
    ddate12.Value = Date
    ddate13.Value = Date
    ddate14.Value = Date

```

```

    txtid1.Text = ""
    txtid2.Text = ""
    txtid3.Text = ""
    txtid4.Text = ""
    txtid5.Text = ""
    txtid6.Text = ""
    txtid7.Text = ""
    txtid8.Text = ""
    txtid9.Text = ""

```

```

txtamt11.Text = ""
KeyAscii = KeyAscii
Exit Sub
ElseIf KeyAscii = 13 Then
    dtdatc11.SetFocus
End If
MsgBox "Please enter only Numbers."
KeyAscii = 0
Else
    KeyAscii = KeyAscii
End If
End Sub
Private Sub txtamt11_KeyPress(KeyAscii As Integer)
If KeyAscii < 48 Or KeyAscii > 57 Or KeyAscii = 8 Or KeyAscii = 13 Then
    If KeyAscii = 8 Then
        KeyAscii = KeyAscii
        Exit Sub
    ElseIf KeyAscii = 13 Then
        dtdatc12.SetFocus
    End If
    MsgBox "Please enter only Numbers."
    KeyAscii = 0
Else
    KeyAscii = KeyAscii
End If
End Sub
Private Sub txtamt12_KeyPress(KeyAscii As Integer)
If KeyAscii < 48 Or KeyAscii > 57 Or KeyAscii = 8 Or KeyAscii = 13 Then
    If KeyAscii = 8 Then
        KeyAscii = KeyAscii
        Exit Sub
    ElseIf KeyAscii = 13 Then
        dtdatc13.SetFocus
    End If
    MsgBox "Please enter only Numbers."
    KeyAscii = 0
Else
    KeyAscii = KeyAscii
End If
End Sub
Private Sub txtamt13_KeyPress(KeyAscii As Integer)
If KeyAscii < 48 Or KeyAscii > 57 Or KeyAscii = 8 Or KeyAscii = 13 Then
    If KeyAscii = 8 Then
        KeyAscii = KeyAscii
        Exit Sub
    ElseIf KeyAscii = 13 Then
        dtdatc14.SetFocus
    End If
    MsgBox "Please enter only Numbers."
    KeyAscii = 0
Else
    KeyAscii = KeyAscii
End If
End Sub

```

```

ElseIf KeyAscii = 13 Then
    dtdate14.SetFocus
End If
MsgBox "Please enter only Numbers."
KeyAscii = 0
Else
    KeyAscii = KeyAscii
End If
End Sub
Private Sub txtamt14_KeyPress(KeyAscii As Integer)
If KeyAscii < 48 Or KeyAscii > 57 Or KeyAscii = 8 Or KeyAscii = 13 Then
    If KeyAscii = 8 Then
        KeyAscii = KeyAscii
        Exit Sub
    ElseIf KeyAscii = 13 Then
        cmdsave.SetFocus
    End If
    MsgBox "Please enter only Numbers."
    KeyAscii = 0
Else
    KeyAscii = KeyAscii
End If
End Sub

Private Sub txtrollno_LostFocus()
rsfs.Requery
rsfp.Requery
While Not rsfp.EOF = True
    If rsfp!rollno = txtrollno.Text Then
        If rsfp!totalfee = rsfp!feepaid Then
            rsadm.Requery
            While Not rsadm.EOF = True
                If rsadm!rollno = txtrollno.Text Then
                    msg = MsgBox("'" & rsadm!fname & " " & rsadm!surname & "' has paid the full fee.",
vbInformation, "Fees Payment")
                End If
                rsadm.MoveNext
            Wend
            rsadm.Requery
            rsfp.Requery
            rsfs.MoveFirst
            Call display
            Call Form_Activate
            cmdadd.Enabled = True
            cmdedit.Enabled = True
        End If
    End If
End While
End Sub

```

```

        cmdDel.Enabled = True

        txtamt2.Text = rsreg!instamount
        dtdate2.SetFocus
        GoTo a
    End If
    rsreg.MoveNext
Wend

a:
    rsadm.Requery
    Exit Sub
End If
rsadm.MoveNext
Wend
If rsadm.EOF = True Then
    MsgBox "Please enter correct Roll No."
    txtcourse.Text = ""
    txtbatchno.Text = ""
    txtsurname.Text = ""
    txtfname.Text = ""
    txtmname.Text = ""
    txtrollno.SetFocus
    txtrollno.Text = ""
    rsadm.MoveFirst
End If
End Sub

```

FORMS FOR LOGIN

```
Dim cn As New ADODB.Connection
Dim rslogin As New ADODB.Recordset
```

```
Private Sub cmdcancel_Click()
End
End Sub
```

```
Private Sub cmdOK_Click()
cmdOK.SetFocus
If rslogin!UserName = Trim(txtUserName.Text) And rslogin!Password =
Trim(txtPassword.Text) Then
    lblload.Visible = False
    pblogin.Visible = True
    Timer1.Enabled = True
    Timer2.Enabled = True
    lclose.Visible = False
    lopen.Visible = True
Else
    'msg = MsgBox("Please enter correct User Name and Password", vbCritical, "Login Error")
    frmLogin.Height = 3840
    lblload.caption = "Invalid Username or password."
    txtUserName.Text = ""
    txtPassword.Text = ""
    txtUserName.SetFocus
End If
End Sub
```

```
Private Sub Form_Load()
frmLogin.Height = 3195
```

```
Set cn = New ADODB.Connection
cn.ConnectionString = "Provider=Microsoft.Jet.OLEDB.4.0;Data
Source=C:\institute\cms1.mdb;Persist Security Info=False"
cn.CursorLocation = adUseClient
cn.Open
Set rslogin = New ADODB.Recordset
rslogin.Open "select * from login", cn, adOpenKeyset, adLockOptimistic
rslogin.MoveFirst
```

```
lclose.Visible = True
lopen.Visible = False
```

```
Timer1.Enabled = False
Timer2.Enabled = False
```


Login



User Name

Password



Ok

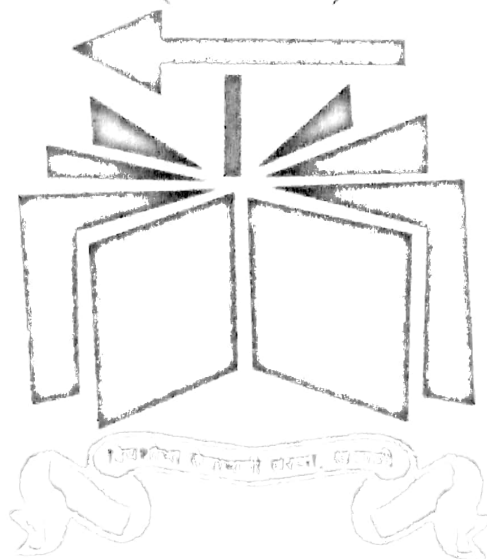
Exit



**DR. BABASAHEB AMBEDKAR MARATHIWADA
UNIVERSITY, AURANGABAD**



**SAGAR COLLEGE, JALNA.
DEPARTMENT OF COMPUTER MANAGMENT
(2018-19)**



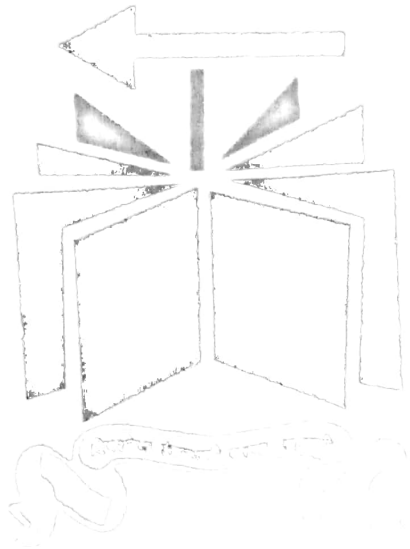
**A
Project Report
On**

ON THE APPLICATION OF HUMAN RESOURCE

**Submitted By:
MR. AVINASH ASHOK JADHAV**

DR. BABASAHEB AMBEDKAR MARATHWADA
UNIVERSITY AURANGABAD

SAGAR COLLEGE, JALNA
DEPARTMENT OF COMPUTER MANAGEMENT
(2018-19)



CERTIFICATE

This is to certify that, Miss. AVINASH ASHOK JADHAV
Of B.C.A Third year VIth Semester Project Report has Completed the
Project towards the project fulfilment of the Subject on "WEB-
APPLICATION SYSTEM" During the academic Year 2018-2019.

Internal Examiner

External Examiner

PRINCIPAL
Sagar College, Jalna
Principal

DECLARATION

We hereby declare that the project intitled “**WEB-APPLICATION SYSTEM**” which is being submitted as Mini project in Computer Managment Department to **SAGAR COLLEGE, JALNA** is an authentic record of our genuine work done under the guidance of **Prof. N D Najardhane**, Dept. Of Computer Managment, Sagar College, Jalna.

Mr. AVINASH ASHOK JADHAV

B.C.A VIth Sem

ACKNOWLEDGEMENT

We wish to express our sincere gratitude to **Mr. D Suradkar Sir** principle of *Sagar College Jalna* for providing me an opportunity to do our project work in “**WEB-APPLICATION SYSTEM.**”

I sincerely thanks to **Prof. N D Najardhane** for their guidance and encouragement in carrying out this project work. I also wish to express my gratitude to the officials and other staff member of *Sagar. College Jalna* who rendered their help during the periods of my project work.

I also thanks to the **Mr. D Suradkar Sir** Secretary of Deepshobha Sevabhavi Sanstha, Khandali for providing me the opportunity to emmark on this project.

Thank you!

Mr. AVINASH ASHOK JADHAV

B.C.A IIInd year

2018-2019

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1. Introduction

This is a "web-application" project which introduce itself in the sector of Computer Science. First we have add the student Is with teacher name number and subject too. To facilitate the Attendance System in educational institute it uses the most reliable of uniquely identifying the student's through website this will enable the easy way of maintaining class attendance the system will also generate the report.

Here the most import role is played by parent & admin where we show the separate form to see the report of students. There is a addition of class student teacher and also the feedback sector where parents can give the feedback to teacher. Report are announced in the form of graph where graph are generated in the form of this attendance system is most technical to arrange the sequence of student in the educational life.

It will help the institute to keep the record online by uploading the attendance immediately.

1.1 Existing System & Need for System:-

The system must be evaluated from the technical point of view first. The project should be developed such that the necessary function and performance are achieved within the constrains. The project is developed within latest technology that is Android Studio.

- Android Attendance application development is the process, by which the application for institute/school.

1. Existing System:-

- Reduce the time
- Insert the record related to student is present or absent
- Shows the information related to class student and their contact as well as report related to studies and present student

1.2 Scope of work:-

It will help in collecting the data related to subject accordingly, the data manual arrangement of present, absent and sick and late student.

It will also help the parent to check the response and performance of their child in the institute / school. It will be online process of collecting data and strong in data and storing it into a database.

The android Attendance system will reduce the time of arranging the data technically. It will be easy to understand to user, easy to operate using ID and change and update.

Operating Environment – Hardware & Software:-

Hardware Information:-

Processor – Intel core i3 2.1 GHz.

Ram-4Gb.

HDD- 1TB.

Software Information:-

Windows 10,

Xampp control panel v3 2.2

Microsoft office word 2007

MySQL database.

2. Purpose:-

The purpose of this document is to specify the requirements and preview some elements of the analysis model of the program 'Improver'. Improver is a simple program which consist of two programs:

- ImproverServer –question and answer database editor and exam server
- ImproverClient – the program to install onto each client computer

2.2 Objective of the system:-

Android attendance system consist of details where are added by Admin, it will provide class details, student details, teacher details too.

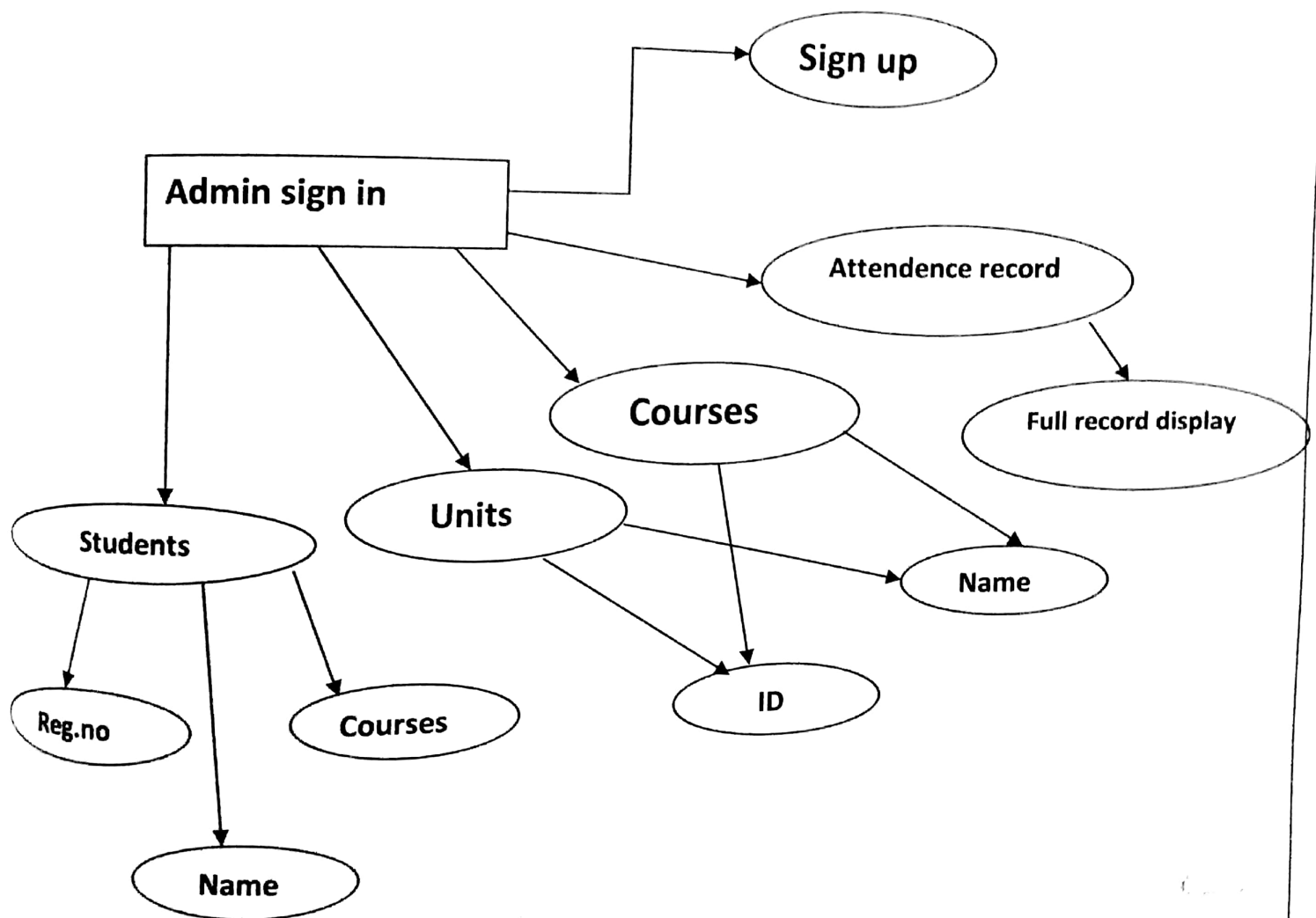
Where reports have sections which shows student reports and attendance. The new details of students and class are added with teacher too.

The details are also edited by admin and updated. It deletes the previous record, it main wrk is to reduce manual work for tasking.

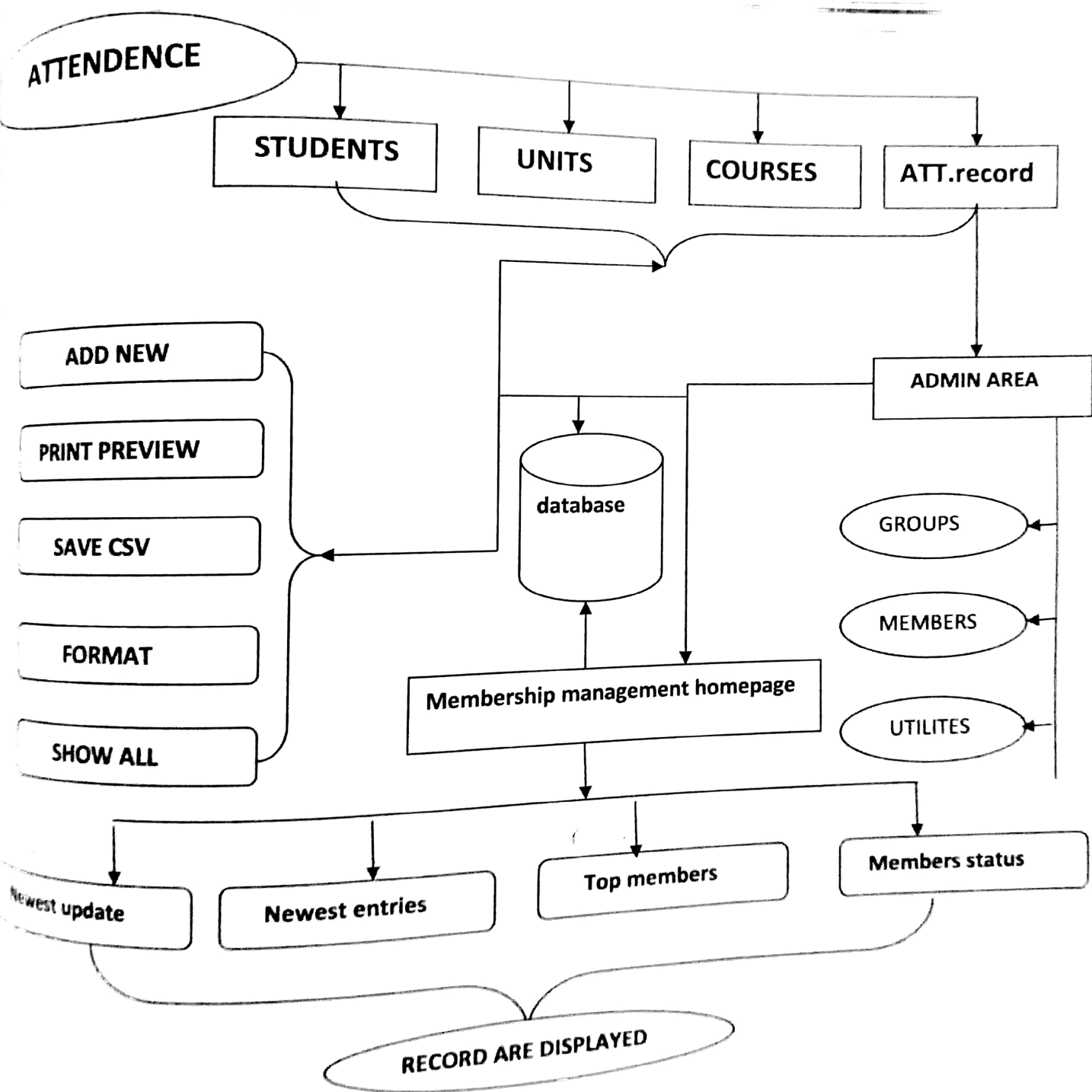
2.3 User Requirments:-

- Managing students details
- Data will be sorted in mannor
- Reliabels information will be displayed
- Easily add new information

3.1 E R DIAGRAM:-



3.2 DATA FLOW:-



4. Source code:

Insert the record

```
<?php  
function students_insert(){  
    global $Translation;  
    // mm: can member insert record?  
    $arrPerm=getTablePermissions('students');  
    if(!$arrPerm[1]){  
        return false;  
    }  
    $data['regno'] = makeSafe($_REQUEST['regno']);  
    if($data['regno'] == empty_lookup_value){ $data['regno'] = ""; }  
    $data['name'] = makeSafe($_REQUEST['name']);  
    if($data['name'] == empty_lookup_value){ $data['name'] = ""; }  
    $data['course'] = makeSafe($_REQUEST['course']);  
    if($data['course'] == empty_lookup_value){ $data['course'] = ""; }  
    if($data['regno'] == "") {echo StyleSheet() . "\n\n<div class=\"alert alert-danger\">" .  
    $Translation['error:'] . " 'Regno': " . $Translation['pkfield empty'] . "</div>"; exit;}  
    if($data['name']== ""){  
        echo StyleSheet() . "\n\n<div class=\"alert alert-danger\">" . $Translation['error:'] . " 'Name':  
        " . $Translation['field not null'] . "<br><br>";  
        echo '<a href="" onclick="history.go( 1); return false;">' . $Translation['< back:'] . "</a></div>";  
        exit;  
    }  
    // hook: students_before_insert  
    if(function_exists('students_before_insert')){
```

```
$args=array();
```

```
if(!students_before_insert($data, getMemberInfo(), $args)){ return false; }
```

```
$o = array('silentErrors' => true);
```

```
sql('insert into `students` set `regno`=' . (($data['regno'] != " && $data['regno'] !=  
NULL) ? ""{$data['regno']}"" : 'NULL') . ', `name`=' . (($data['name'] != " && $data['name']  
!= NULL) ? ""{$data['name']}"" : 'NULL') . ', `course`=' . (($data['course'] != " &&  
$data['course'] != NULL) ? ""{$data['course']}"" : 'NULL'), $o);
```

```
if($o['error']!="){
```

```
echo $o['error'];
```

```
echo "<a href=\"students_view.php?addNew_x=1\">{$Translation['< back']}</a>";
```

```
exit;
```

```
} $recID = $data['regno'];
```

```
// hook: students_after_insert
```

```
if(function_exists('students_after_insert')){
```

```
$res = sql("select * from `students` where `regno`='" . makeSafe($recID, false) . "' limit 1",  
$eo);
```

```
if($row = db_fetch_assoc($res)){
```

```
$data = array_map('makeSafe', $row);
```

```
}
```

```
$data['selectedID'] = makeSafe($recID, false);
```

```
$args=array();
```

```
if(!students_after_insert($data, getMemberInfo(), $args)){ return $recID; }
```

```
// mm: save ownership data
```

```
set_record_owner('students', $recID, getLoggedMemberID());
```

```
return $recID;
```


Membership coding:

~~24 save member data~~

```
$needsApproval = sqlValue("select needsApproval from membership_group where  
groupID='$groupID'");
```

```

=sql("INSERT INTO `membership_users` set memberID='$memberID',
passMD5='".md5($password)."', email='$email', signupDate='".@date('Y-m-d')."',
groupID='$groupID', isBanned='0', isApproved='".($needsApproval==1?'0':'1')."',
custom1='$custom1', custom2='$custom2', custom3='$custom3', custom4='$custom4',
comments='member signed up through the registration form.', $seo);

```

```
// admin mail notification
```

```
/* ---- application name as provided in AppGini is used here ---- */
```

```
$message = nl2br("A new member has signed up for {$app_name}.\n\n"."Member name: {$memberID}\n"."Member group: " . sqlValue("select name from membership_groups where groupID='{$groupID}'") . "\n"."Member email: {$email}\n").
```

```
"IP address: {$_SERVER['REMOTE_ADDR']}\n".
```

```
"Custom fields:\n".($adminConfig['custom1'] ? "{$adminConfig['custom1']}: {$Scustom1}\n" : "") . ($adminConfig['custom2'] ? "{$adminConfig['custom2']}: {$Scustom2}\n" : "") .
```

```
"custom fields:\n".($adminConfig['custom1'] ? "{$adminConfig['custom1']}\n" : "") .
($adminConfig['custom2'] ? "{$adminConfig['custom2']}\n" : "") .
($adminConfig['custom3'] ? "{$adminConfig['custom3']}\n" : "")
```

```
{adminConfig['custom2'] ? "${adminConfig['custom2']} : ${custom2}\n" : ""}
{adminConfig['custom3'] ? "${adminConfig['custom3']} : ${custom3}\n" : ""}
{adminConfig['custom4'] ? "${adminConfig['custom4']} : ${custom4}\n" : ""}
```

```
{adminConfig['custom4']} ? "{adminConfig['custom4']}: {$custom4}\n": ""
```

```
if ($adminConfig['custom4'] -eq $adminConfig['custom3']) {
    $adminConfig['notifyAdminNewMembers'] == 2 && !$needsApproval) {
        $adminConfig['notifyAdminNewMembers'] = 1
    }
}
```

```
$adminConfig['notifyAdminNewMembers'] => true  
$mail = array('to' => $adminConfig['senderEmail'], 'subject' => "{($app_name)} New  
Member signup", 'message' => $message  
);  
mail($mail[0], $mail[1], $mail[2]);
```

```
if ($config['adminConfig']['notifyAdminNewMembers'] >= 1 &&
    $config['adminConfig']['notifyAdminNewMembers'] >= $adminConfig['senderEmail'] {
```

```
sendmail(array('to' => $adminContactEmail,
              'cc' => $adminContactEmail,
              'subject' => "New member awaiting approval",
              'message' => $message))

```

//last_member_activity

position exists (member activity) //

```

1  array(), memb
2  "atomic", Sarg(1.)

```

Adding 100 to thanks page

```
(?redir=1),return("membership_thankyou.php$redirect");  
exit;
```

Update coding:

```
function students_update($selected_id){  
    global $Translation;  
  
    // mm: can member edit record?$arrPerm=getTablePermissions('students');  
    $ownerGroupID=sqlValue("select groupID from membership_userrecords where  
    tableName='students' and pkValue='".makeSafe($selected_id)."'");  
    $ownerMemberID=sqlValue("select lcase(memberID) from membership_userrecords where  
    tableName='students' and pkValue='".makeSafe($selected_id)."'");  
  
    if(($arrPerm[3]==1 && $ownerMemberID==getLoggedMemberID()) || ($arrPerm[3]==2 &&  
    $ownerGroupID==getLoggedGroupID()) || $arrPerm[3]==3){ // allow update?  
  
        // update allowed, so continue ...  
  
    }else{  
  
        return false;  
  
        $data['regno'] = makeSafe($_REQUEST['regno']);if($data['regno'] == empty_lookup_value){  
        $data['regno'] = ""; }  
  
        $data['name'] = makeSafe($_REQUEST['name']);  
  
        if($data['name'] == empty_lookup_value){ $data['name'] = ""; }  
  
        if($data['name']==''){  
            echo StyleSheet() . "\n\n<div class=\"alert alert-danger\">{$Translation['error:']} 'Name':  
            {$Translation['field not null']}<br><br>";echo '<a href="" onclick="history.go(-1); return  
            false;">'. $Translation['< back>'].'</a></div>';  
            exit;}$data['course'] = makeSafe($_REQUEST['course']);    if($data['course'] ==  
            empty_lookup_value){ $data['course'] = ""; }  
  
        $data['selectedID']=makeSafe($selected_id);  
  
        // hook: students_before_update  
        if(function_exists('students_before_update')){
```

```
$args=array();
```

```
if(!students_before_update($data, getMemberInfo(), $args)){ return false; }
```

```
$o=array('silentErrors' => true);
```

```
sql('update `students` set `regno`=' . (($data['regno'] != " && $data['regno'] != NULL) ?  
""{$data['regno']}"" : 'NULL') . ', `name`=' . (($data['name'] != " && $data['name'] != NULL)  
? ""{$data['name']}"" : 'NULL') . ', `course`=' . (($data['course'] != " && $data['course'] !=  
NULL) ? ""{$data['course']}"" : 'NULL') . " where `regno`='".makeSafe($selected_id)."'", $o);
```

```
if($o['error']!=""){echo $o['error'];}
```

```
echo '<a
```

```
href="students_view.php?SelectedID='".urlencode($selected_id)."'>{$Translation['<  
back']}</a>";exit;}
```

```
$data['selectedID'] = $data['regno'];
```

```
// hook: students_after_update
```

```
if(function_exists('students_after_update')){
```

```
    $res = sql("SELECT * FROM `students` WHERE `regno`='{$data['selectedID']}' LIMIT 1",  
$eo);if($row = db_fetch_assoc($res))$data = array_map('makeSafe', $row)
```

```
$data['selectedID'] = $data['regno'];
```

```
$args = array();    if(!students_after_update($data, getMemberInfo(), $args)){ return; }
```

```
// mm: update ownership data
```

```
sql("update membership_userrecords set dateUpdated='".time()."',  
pkValue='{$data['regno']}' where tableName='students' and  
pkValue='".makeSafe($selected_id)."'", $eo);
```

```
}
```

Delete coding:

```
function students_delete($selected_id, $AllowDeleteOfParents: false, $skipChecks: false){
    // insure referential integrity ...

    global $Translation; $selected_id=makeSafe($selected_id);

    // mm: can member delete record?

    $arrPerm=getTablePermissions('students');

    $ownerGroupID=sqlValue("select groupID from membership_userrecords where
    tableName='students' and pkValue='$selected_id'");

    $ownerMemberID=sqlValue("select lcase(memberID) from membership_userrecords where
    tableName='students' and pkValue='$selected_id'");

    if(($arrPerm[4]==1 && $ownerMemberID==getLoggedMemberID()) || ($arrPerm[4]==2 &&
    $ownerGroupID==getLoggedGroupID()) || $arrPerm[4]==3){ // allow delete?

        // delete allowed, so continue ...

    }else{ return $Translation['You don\'t have enough permissions to delete this record'];

    } // hook: students_before_delete

    if(function_exists('students_before_delete')){ $args=array();

    if(!students_before_delete($selected_id, $skipChecks, getMemberInfo(), $args))

    return $Translation['Couldn\'t delete this record'];

    } // child table: attendance

    $res = sql("select `regno` from `students` where `regno`='$selected_id'", $eo);

    $regno = db_fetch_row($res); $rires = sql("select count(1) from `attendance` where
    'student'='".addslashes($regno[0])."', $eo); $rirow = db_fetch_row($rires);

    if($rirow[0] && !$AllowDeleteOfParents && !$skipChecks){

        $RetMsg = $Translation["couldn't delete"]; $RetMsg = str_replace("<RelatedRecords>", $rirow[0],
        $RetMsg); $RetMsg = str_replace("<TableName>", "attendance", $RetMsg);

        return $RetMsg; }elseif($rirow[0] && $AllowDeleteOfParents && !$skipChecks){

        $RetMsg = $Translation["confirm delete"]; $RetMsg = str_replace("<RelatedRecords>", $rirow[0],
        $RetMsg); $RetMsg = str_replace("<TableName>", "attendance", $RetMsg);

        $RetMsg = str_replace("<Delete>", "<input type='button' class='button'
        value='".$Translation['yes']."'>\"");
```



```

onClick="\window.location='students_view.php?SelectedID=".urlencode($selected_id)."&delete_x=
1&confirmed=1';\>", $RetMsg); $RetMsg = str_replace("<Cancel>", "<input type='button'
class='button' value='".$Translation['no']."'>");
onClick="\window.location='students_view.php?SelectedID=".urlencode($selected_id).";\>",
$RetMsg); return $RetMsg; }

sql("delete from `students` where `regno`='$selected_id'", $eo);

// hook: students_after_delete

if(function_exists('students_after_delete')){ $args=array();

students_after_delete($selected_id, getMemberInfo(), $args);

} // mm: delete ownership data

sql("delete from membership_userrecords where tableName='students' and
pkValue='$selected_id'", $eo);

}

```

Database coding:

```

<?php

/*You can implement a new db driver in this file by uncommenting the line below
and replacing 'mssql' with the desired driver name, then adding cases for the
that driver in each function below ...*/

// define('DATABASE', 'mssql');

if(!defined('DATABASE')){
if(function_exists('mysqli_connect')) { define('DATABASE', 'mysqli');
}else{ define('DATABASE', 'mysql'); }
} define('mysql_charset', 'utf8');

function db_link($link = NULL){ static $db_link;

if($link) $db_link = $link; return $db_link;}

function db_close($link = NULL){
db_link(false); /* close db link */ switch(DATABASE){
case 'mysql':return mysql_close($link);case 'mysqli':

```

```

return mysqli_close($link);} }function db_select_db($dbname, $link = NULL){
if(!$link) $link = db_link(); switch(DATABASE){ case 'mysql':
return mysql_select_db($dbname, $link); case 'mysqli':
return mysqli_select_db($link, $dbname);
}} function db_fetch_array($res){
switch(DATABASE){ case 'mysql':
return @mysql_fetch_array($res); case 'mysqli':
return @mysqli_fetch_array($res, MYSQLI_BOTH);}
} function db_fetch_assoc($res){
switch(DATABASE){
case 'mysql': return @mysql_fetch_assoc($res); case 'mysqli':
return @mysqli_fetch_assoc($res)}}
function db_fetch_row($res){ switch(DATABASE){ case 'mysql':
return @mysql_fetch_row($res); case 'mysqli':
return @mysqli_fetch_row($res);} }
function db_num_fields($res){ switch(DATABASE){ case 'mysql':
return @mysql_num_fields($res);
case 'mysqli': return @mysqli_num_fields($res);}
}function db_num_rows($res){ switch(DATABASE){ case 'mysql':
return @mysql_num_rows($res);
case 'mysqli': return @mysqli_num_rows($res);} } function db_affected_rows($link = NULL){
if(!$link) $link = db_link(); switch(DATABASE){ case 'mysql': return mysql_affected_rows($link);
case 'mysqli': return mysqli_affected_rows($link); } }
function db_query($query, $link = NULL){if(!$link) $link = db_link();
switch(DATABASE){ case 'mysql': return @mysql_query($query, $link);
case 'mysqli': return @mysqli_query($link, $query);} }
function db_insert_id($link = NULL){ if(!$link) $link = db_link(); switch(DATABASE){

```

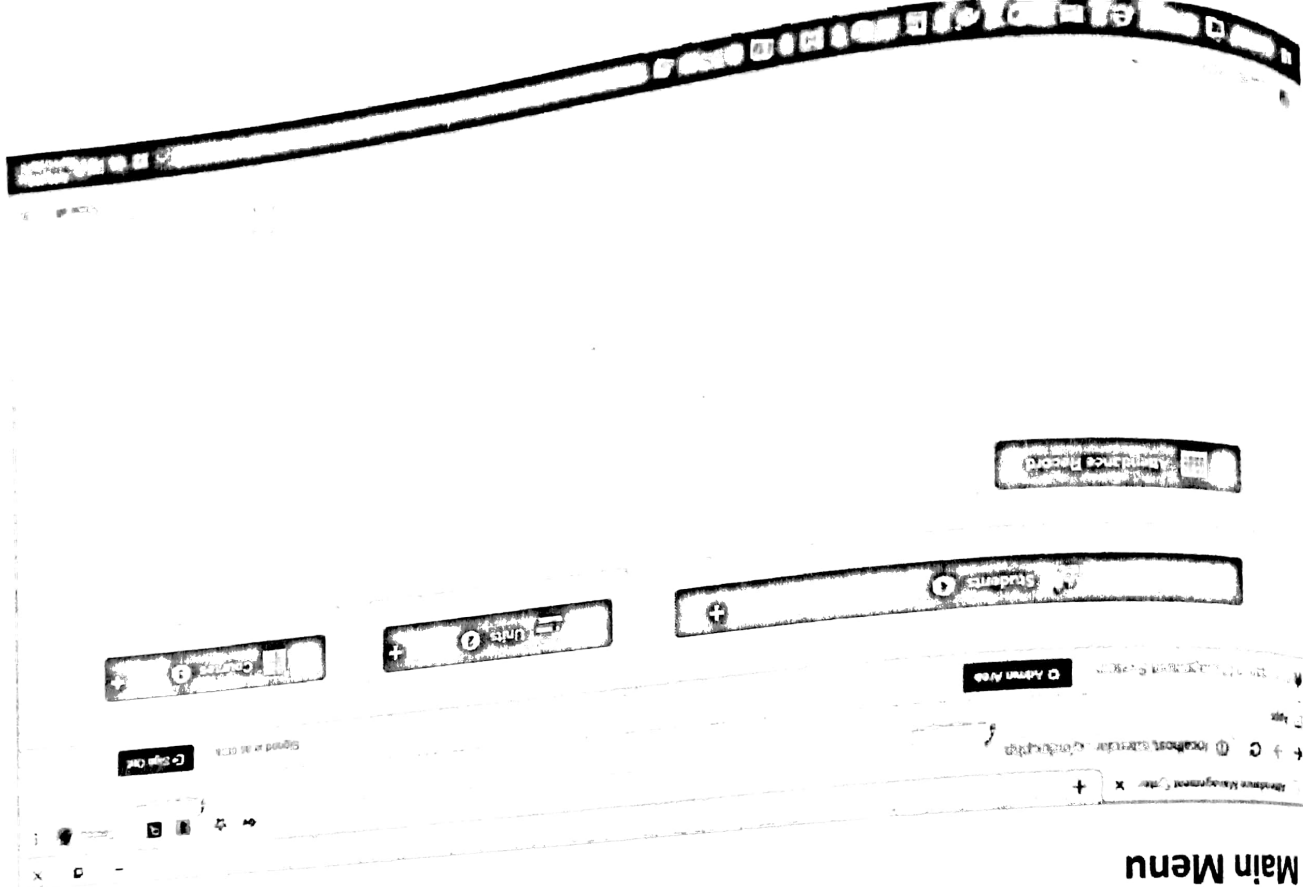


```

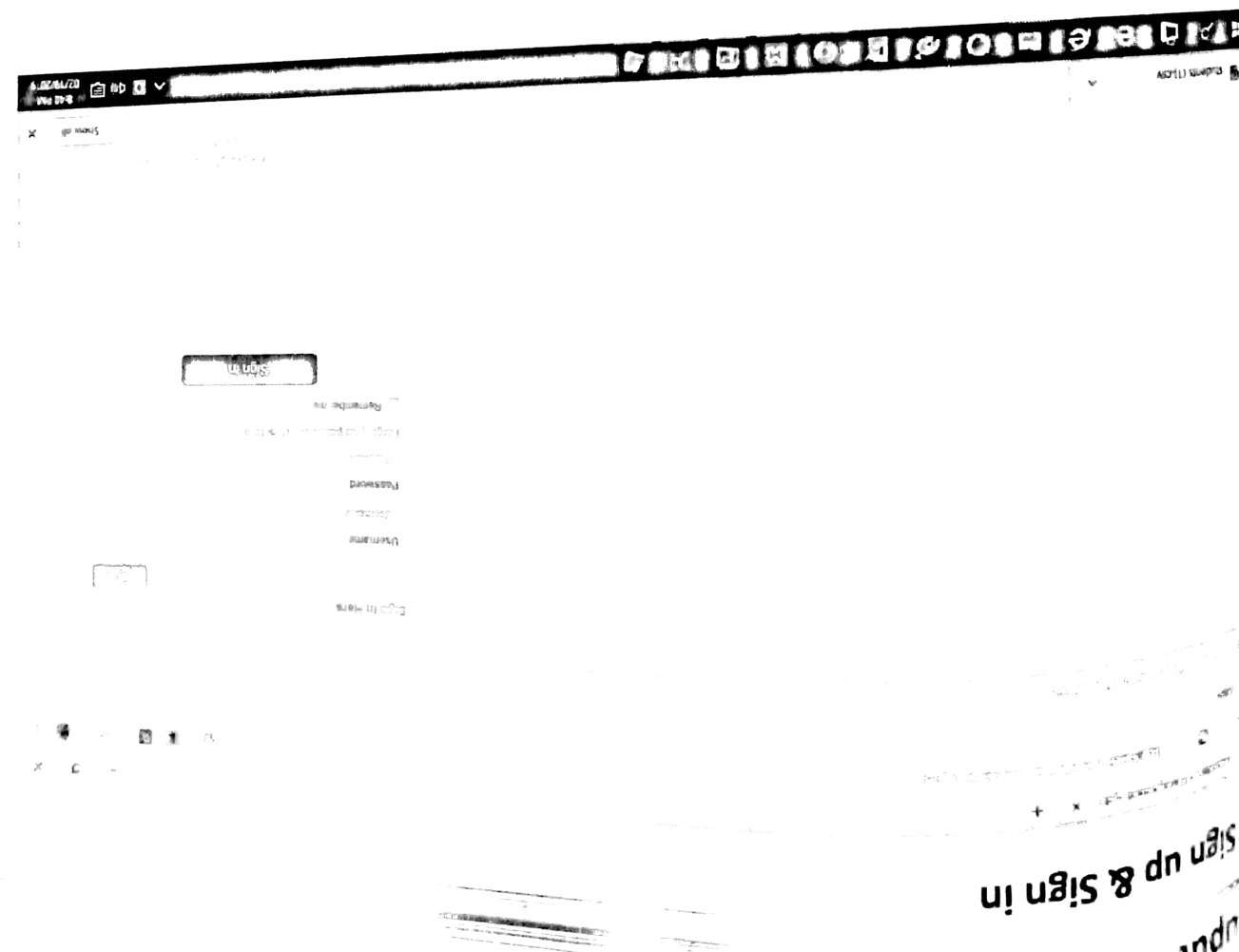
case 'mysql': return mysql_insert_id($link); case 'mysqli': return mysqli_insert_id($link);}
} function db_field_name($res, $field_offset){ switch(DATABASE){ case 'mysql':
return @mysql_field_name($res, $field_offset); case 'mysqli':
$fo = @mysqli_fetch_field_direct($res, $field_offset); if($fo === false) return false;
return $fo->name; } } function db_field_type($res, $field_offset){
switch(DATABASE){m case 'mysql': return @mysql_field_type($res, $field_offset);
case 'mysqli': $fo = @mysqli_fetch_field_direct($res, $field_offset);
if($fo === false) return false; return $fo->type;} }
function db_escape($str = NULL, $link = NULL){ if(!$link) $link = db_link();
switch(DATABASE){ case 'mysql':
if(function_exists('mysql_real_escape_string')) return mysql_real_escape_string($str, $link);
return mysql_escape_string($str); case 'mysqli': return mysqli_real_escape_string($link, $str);}
} function db_connect($host = NULL, $username = NULL, $passwd = NULL, $dbname = NULL, $port =
NULL, $socket = NULL){ switch(DATABASE){ case 'mysql':
if($host === NULL) $host = ini_get("mysql.default_host");
if($username === NULL) $username = ini_get("mysql.default_user");
if($passwd === NULL) $passwd = ini_get("mysql.default_password");
$link = mysql_connect($host, $username, $passwd);
if(!$link) return false; db_link($link); /* db_link() can now be used to retrieve the db link from
anywhere */@mysql_query("SET NAMES "" . mysql_charset . """);if($dbname){
if(!mysql_select_db($dbname, $link)) return false; }return $link;case 'mysqli':
if($host === NULL) $host = ini_get("mysqli.default_host");
if($username === NULL) $username = ini_get("mysqli.default_user");
if($passwd === NULL) $passwd = ini_get("mysqli.default_pw");
if($port === NULL) $port = ini_get("mysqli.default_port");
if($socket === NULL) $socket = ini_get("mysqli.default_socket");
if($socket === NULL) $socket = ini_get("mysqli.default_socket");
$link = mysqli_connect($host, $username, $passwd, $dbname, $port, $socket); if(!$link) return false;
db_link($link); /* db_link() can now be used to retrieve the db link from anywhere
*/mysqli_set_charset($link, mysql_charset);

```

```
return $link;} }  
function db_errno($link = NULL, $mysqli_connect = false){ if(!$link) $link = db_link();  
switch(DATABASE){ case 'mysql': return mysql_errno($link); case 'mysqli':  
if($mysqli_connect) return mysqli_connect_errno(); return mysqli_errno($link);  
}  
function db_error($link = NULL, $mysqli_connect = false){  
if(!$link) $link = db_link(); switch(DATABASE){ case 'mysql':  
return mysql_error($link); case 'mysqli': if($mysqli_connect) return mysqli_connect_error();  
return mysqli_error($link);} } }
```



Main Menu



Sign up & Sign in
Output screen:

STUDENT FORM

STUDENT FORM

Admin Area

Sign Out

Students

Print Preview Save CSV Filter Show All

ID	Name	Age	Gender	Address	Phone
1	John Doe	15	Male	123 Main St	555-1234
2	Jane Smith	16	Female	456 Elm St	555-5678
3	Mike Johnson	17	Male	789 Oak St	555-9012
4	Sarah Brown	18	Female	101 Pine St	555-3456
5	David Wilson	19	Male	202 Cedar St	555-7890

Previous Next

2:51 PM

UNITS FORM

UNITS FORM

Admin Area

Sign Out

Units

Print Preview Save CSV Filter Show All

ID	Name	Age	Gender	Address	Phone
1	John Doe	15	Male	123 Main St	555-1234
2	Jane Smith	16	Female	456 Elm St	555-5678
3	Mike Johnson	17	Male	789 Oak St	555-9012
4	Sarah Brown	18	Female	101 Pine St	555-3456
5	David Wilson	19	Male	202 Cedar St	555-7890

Previous Next

2:51 PM

[illegible]

The screenshot displays a web application interface for managing students. The top navigation bar includes a search icon and a 'Filter' button. The main heading is 'Students'. Below this, there is a table with three columns: 'Name', 'Email', and 'Phone'. The table is currently empty. To the right of the table, there is a sidebar with a 'Filter' button and a 'Reset' button. The browser's address bar shows the URL 'http://localhost:3000/students'.

[illegible]

The screenshot displays the 'Courses Filters' section of the 'Attendance Management' application. The interface includes a table with the following columns: 'Filter Field', 'Comparison Operator', and 'Comparison Value'. The table contains four rows of filters: 'Filter 01', 'Filter 02', 'Filter 03', and 'Filter 04'. Below the table, there are buttons for 'Add New Filter', 'Save', and 'Cancel'. At the bottom, there is a 'Filter by' section with a dropdown menu and a 'Filter' button.

Filter Field	Comparison Operator	Comparison Value
Filter 01		
Filter 02		
Filter 03		
Filter 04		

Buttons: Add New Filter, Save, Cancel

Filter by: [Dropdown Menu] Filter

ATTENDANCE RECORD

Attendance Record



SIGN UP

Sign up for the service

Sign up

Sign up

Sign up

Sign up

Sign up

Sign up

Sign up

Sign up

Sign up



ADMIN INFO

Hello sms!

© 2000 Blackwell Science Ltd

1998

THE END

128

PAID BY THE

2000年12月24日

THESE

15

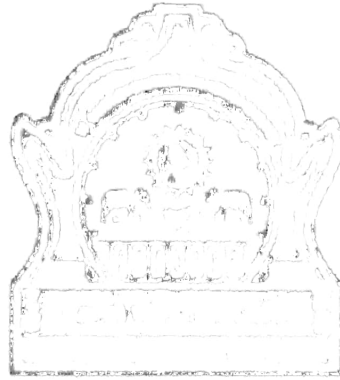
6.Conclusion:-

Our project is only a humble venture to satisfy the needs to manage their project work. Several user friendly coding have also adopted. This package shall prove to be a powerful package to satisfying all the requirement of the college. The objective of the software planning is to be provide a framework that enables the manager to make reasonable estimate made within a limited time frame at the beginning of the software project and should be updated regularly as the project progresses.

7. Bibliography:-

1. Professional Android 4 Application Development
2. Programming Android ; java programming for the new generation of the mobile devices.
3. Android Cookbook; problems and solutions for android developers. First edition.
4. www.youtube.com
5. www.phptutorials.com

Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad



Have Satisfactorily carried out and completed the project work entitled

A

Project On

“Banking System”

This work is being submitted for the award of the degree in B.C.A. 2018-2019

Submitted by

Mr. Satish S.Borde

Guided by

Prof. D. E. Suradkar

CERTIFICATE

This is to certify that the seminar report entitled,
“**Banking System**” Submitted by
Mr. Satish S. Borde, as per the requirement of *Dr. Babasaheb Ambedkar Marathwada University* In
the partial fulfilment of bachelor of computer
application third year for the academic year 2018-19.

Seat No. BCA-060421

Guided by

Prof. D. E. Suradkar


PRINCIPAL
Sagar College, Jalna
Principle


External Examiner

ACKNOWLEDGEMENT

With our great pleasure, we wish to express our knowledge under the great guidance of **Shri. Mrs. S. S. Borde** who help us with her graceful support and other infrastructure with personal attention.

We are also thankful to our project guide **Shri. Mrs. S. S. Borde** who herself a knowledgeable person with the great brilliance. We thanking her, for her immense interest, valuable guidance, kindly suggestion and co-operation thought out the period of undertaken which have been instrument in the success of our project.

It is matter of honour to express our special thanks to all the staff members who support us I completion of our project and provide us their own interest. We also thankful to all our friends who have directly or indirectly supported us by morally.

Mr. Satish S. Borde

B.C.A. (IIIrd Year)

Sagar College of Management, Jalna



DECLARATION

I have undersign that I have completed the project work on the topic **Software Development** from **INSTITUTE MANAGEMENT SYSTEM** in partial fulfilment of B.C.A. course as related to the **Dr. Babasaheb Ambedkar Marathwada University, Aurangabad** as per the syllabus of B.C.A. degree.

I hereby declare that this project is genuine and origin and never been submitted previously by me for the award of any other degree or any other university.

Mr. Satish S. Borde



INTRODUCTION TO VISUAL BASIC

6.0

Microsoft Visual Basic, is the fastest and easiest way to create applications for Microsoft windows. Visual basic provides a complete set of tools to simplify rapid application development.

So what is Visual Basic? The “virtual” part refers to the method used to create the graphical user interface (GUI). Rather than writing numerous lines of codes to describe the appearance and location of interface elements, you simply add rebuilt objects into place on screen. If you have ever used a drawing program such as Paint, you already have most of the skills necessary to create an effective user interface.

The “Basic” part refers to the BASIC language, a language used by more programmers than any other language in the history of computing. VB has evolved from the original BASIC language and now contains several hundreds statements, functions, and keywords, many of which relate directly to the Windows GUI. Beginners can create useful applications by learning just a few of the keywords, yet the power of the language allows professionals to accomplished using any other Windows programming language.

The visual Basic programming language is not unique to Visual Basic. The Visual Basic programming system, Applications Edition included in MS Excel, MS Access, and many other windows applications uses the same language. The Visual Basic scripting (VB Script) is a widely used scripting language and a subset of the Visual Basic language. The investment you make in learning Visual Basic will carry to the others.

MODULES :

In Visual Basic we can create a procedure or function or a variable or a function global for that project using a useful feature of VB called module. Modules help us in reducing codes & faster execution. As in any programming language such as C++ or JAVA in which access specifiers are used we can use same type of public access specifier for the module.

MDI FORM :

The multiple-document interface (MDI) allows us to create an application that contains multiple forms within a single container. An MDI application allows the user to display documents at the same time, with each document displayed in its own window. The contents of a child window are contained in a parent window, which can be of any type. For all child windows of different type, a child form is required. The parent window for an MDI child program is of type MDIApplicationForm. The parent window for a child form is of type MDIChildForm.

With menu editor, we can add new commands to existing menus, replace existing menu commands with our own commands, create new menus and menu bars, and change and delete existing menus and menu bars. The main advantage of menu editor is its ease of use. We can customize menu in a completely manner that involves very little programming.

DATA REPORTS :

VB's data report designer is a versatile data report generator that features the ability to created-banded hierarchical reports. Used in conjunction with a data source such as the Data Environment designer, we can create reports from several different relational tables. In data report drags and drop functionality works very effectively for fields. VB automatically creates a text box control on the data report and sets the data member and data field properties of the dropped field. We can also drag a command object from the data environment designer to the data report designer.

VB'S STANDARD CONTROL :

COMMAND BUTTON CONTROL :

We can use a command button control to begin, interrupt, or end a process. When chosen, a Command Button appears pushed in and so is sometimes called a push button. To display text on a Command Button control, set its Caption property. A user can always choose a Command Button by clicking it. To allow the user to choose it by pressing ENTER, set the Default property to true. To allow the user to choose the button by pressing ESC, set the Cancel property of the Command Button to True.

LABEL CONTROLS :

A Label tool display text on a form that user cannot change. It is mainly used to give the labels or messages to the Text Box.

TEXT BOX :

A Text Box command is used to accept the data in it. We can display the data, change the data etc. that is available in this box.

CHECK & OPTION BOX :

Check Box is used to select one or more choices from the given choices. Option Button is used to provide an option to the user and user can select only one of them.

LIST & DRIVE LIST BOX :

List Box is similar to Combo box, used to display lost of item. Drive List Box is used to display all the drives, which are connected to your computer.

TIMER :

A Timer control can execute code at regular intervals by causing a Timer event to occur. The Timer control is invisible to user & is useful for background processing.

FILE LIST & DIRECTORY LIST BOX :

File List Box is used to display list of all the files in the specified directory. Directory List Box is used to display all the list of folder in the specified directory.

SHAPE BOX :

Shape Box is used to draw graphical elements, such as boxes, lines, circles, etc.

OLE :

Object Linking and Embedding is called as OLE. OLE is used to insert word, excel or other documents in your form.

INTRODUCTION TO MS-ACCESS

A database is a collection of related and ordered information, organized in such a way that information can be accessed quickly and easily. A database can consist of one or more tables of information that are related in some way. A Database Management System(DBMS) is a computer based system to manage a database, or a collection of databases or files.

Microsoft Access 2000 is a DBMS package from Microsoft. It is one of the products in the Microsoft Office 2000 suite. MS-ACCESS supports RDBMS features like setting Primary key, relations between more than one table, designing queries, reports.

- A primary key is to be set to a table, which uniquely identifies each record.
- A query that displays specified columns and data from a table(s).

MS-ACCESS supports SQL – Structured Query Language which is used to manipulate data, retrieve data from more than one tables or for query designing.

The three basic data functions provided by SQL are:

Data Definition Language (DDL):

Consists of commands to create the objects such as tables, views, indexes etc.

Data Manipulation Language (DML):

Uses for query , insertion , deletion and updation of data stored in the database.

Data Control Language (DCL):

this is used for controlling data and their access to the database.

PROJECT OVERVIEW

The Domain "Banking System " keeps the day by day tally record as a complete banking. It can keep the information of Account type, account opening form, Deposit, Withdrawal, and Searching the transaction, Transaction report, Individual account opening form, Group Account. The exciting part of this project is; it displays Transaction reports, Statistical Summary of Account type and Interest Information.

SYNOPSIS

"Banking System " keeps the day by day tally record as a complete banking. It can keep the information of Account type, account opening form, Deposit, Withdrawal, and Searching the transaction, Transaction reports, Individual account opening form, Group Account. The exciting part of this project is; it displays Transaction reports, Statistical Summary of Account type and Interest Information.

AIM

In the existing system the transactions are done only manually but in proposed system we have to computerize all the banking transaction using the software Banking System.

They are:

Administrative Module

ADMINISTRATIVE MODULE

This module is the main module which perform all the main operation in the system. The major operations in the system are:

- Account type
- Deposit
- Withdrawal

- Account type
- Searching Transaction
- Transaction report

SYSTEM STUDY AND ANALYSIS

SYSTEM ANALYSIS

System analysis is a process of gathering and interpreting facts, diagnosing problems and the information to recommend improvements on the system. It is a problem solving activity that requires intensive communication between the system users and system developers. System analysis or study is an important phase of any system development process. The system is studied to the minutest detail and analyzed. The system analyst plays the role of the interrogator and dwells deep into the working of the present system. The system is viewed as a whole and the input to the system are identified. The outputs from the organizations are traced to the various processes. System analysis is concerned with becoming aware of the problem, identifying the relevant and decisional variables, analyzing and synthesizing the various factors and determining an optimal or at least a satisfactory solution or program of action.

A detailed study of the process must be made by various techniques like interviews, questionnaires etc. The data collected by these sources must be scrutinized to arrive to a conclusion. The conclusion is an understanding of how the system functions. This system is called the existing system. Now the existing system is subjected to close study and problem areas are identified. The designer now functions as a problem solver and tries to sort out the difficulties that the enterprise faces. The solutions are given as proposals. The proposal is then weighed with the existing system analytically and the best one is selected. The proposal is presented to the user for an endorsement by the user. The proposal is reviewed on user request and suitable changes are made. This is loop that ends as soon as the user is satisfied with proposal.

Preliminary study is the process of gathering and interpreting facts, using the information for further studies on the system. Preliminary study is problem solving activity that requires intensive communication between the system users and system developers. It does various feasibility studies. In these studies a rough figure of the system activities can be obtained, from which the decision about the strategies to be followed for effective system study and analysis can be taken.

EXISTING SYSTEM

In the existing system the transactions are done only manually but in proposed system we have to computerize all the banking transaction using the software Banking system.

2.1.1 PROBLEMS WITH EXISTING SYSTEM

- Lack of security of data
- Lack of manpower



- Time consuming.
- Consumes large volume of paper work.
- Needs manual calculations.
- No direct role for the higher officials.
- Damage of machines due to lack of attention.

To avoid all these limitations and make the working more accurately the system needs to be computerized.

PROPOSED SYSTEM

The aim of proposed system is to develop a system of improved facilities. The proposed system can overcome all the limitations of the existing system. The system provides proper security and reduces the manual work.

2.2.1 ADVANTAGES OF THE PROPOSED SYSTEM

The system is very simple in design and to implement. The system requires very low system resources and the system will work in almost all configurations. It has got following features

- Security of data.
- Ensure data accuracy's.
- Proper control of the higher officials.
- Reduce the damages of the machines.
- Minimize manual data entry.
- Minimum time needed for the various processing.
- Greater efficiency.
- Better service.
- User friendliness and interactive.
- Minimum time required.

2.3. FEASIBILITY STUDY

Feasibility study is made to see if the project on completion will serve the purpose of the organization for the amount of work, effort and the time that spend on it. Feasibility study lets the developer foresee the future of the project and the usefulness. A feasibility study of a system proposal is according to its workability, which is the impact on the organization, ability to meet their user needs and effective use of resources. Thus when a new application is proposed it normally goes through a feasibility study before it is approved for development.

A feasibility study provides the feasibility of the project that is being designed and lists the risks that were considered carefully during the feasibility study. It is divided into three types: Technical, Economic and Operational feasibilities. The following are the types of feasibility study.

2.3.1. TECHNICAL FEASIBILITY

The system must be evaluated from the technical point of view first. The assessment of this feasibility must be based on an outline design of the system requirement in the terms of input, output, programs and procedures. Having identified an outline system, the investigation must go on to suggest the type of equipment, required method developing the system, of running the system once it has been designed.

Technical issues raised during the investigation are:

Does the existing technology sufficient for the suggested one?
Can the system expand if developed?

The project should be developed such that the necessary functions and performance are achieved within the constraints. The project is developed within latest technology. Through the technology may become obsolete after some period of time, due to the fact that never version of same software supports older versions, the system may still be used. So there are minimal constraints involved with this project. The system has been developed using Java the project is technically feasible for development.

2.3.2. ECONOMIC FEASIBILITY

The developing system must be justified by cost and benefit. Criteria to ensure that effort is concentrated on project, which will give best, return at the earliest. One of the factors, which affect the development of a new system, is the cost it would require.

The following are some of the important financial questions asked during preliminary investigation:

- The costs conduct a full system investigation.
- The cost of the hardware and software.
- The benefits in the form of reduced costs or fewer costly errors.

Since the system is developed as part of project work, there is no manual cost to spend for the proposed system. Also all the resources are already available, it give an indication of the system is economically possible for development

2.3.3. BEHAVIORAL FEASIBILITY

It includes the following questions:

- Is there sufficient support for the project?
- Will the proposed system cause harm?

The behavioral feasibility is determined by assessing the extent to which the system will be accepted by the users. The system will be accepted if the users find it useful and easy to use. The system will be accepted if the users find it useful and easy to use.

SYSTEM DESIGN

DEFINITION

Design is the first step in the development process of a system. It is the process of defining a system or a product. A good design is the key to a successful system. Design is the process of applying engineering principles to the process of defining a product or a system. It may be defined as a process of applying engineering principles to the process of defining a device, a structure or a system, in order to permit its physical realization. Software design is the first step in the software engineering process and is applied regardless of the programming language that is used. The system design develops the architectural and functional requirements for a system or product. As in the case of any systematic approach, the software too has undergone the best possible design phase fine tuning and tuning, performance and accuracy levels. The design phase is a transition from a design document to a document to the programmers or database personnel. The design phase goes through two phases of development: Logical and Physical Design.

LOGICAL DESIGN:

- The logical design of a system and define the boundaries of a system. It includes the following:
- Data flow diagram - its data flows, file content, volumes, etc.
- Data flow diagram specifications - that is, determines the format, content and structure of the reports.
- Data flow diagram specifications - format, content and most of the input functions.
- Data flow diagram specifications and control specifications.
- Data flow diagram specification plan.
- Data flow diagram specification plan to walk through of the information flow, output, input, etc.
- Data flow diagram specification plan to walk through of the information flow, output, input, etc.

PHYSICAL DESIGN:

The physical design of a system is the process of defining the physical structure of a system. It includes the following:

- Data flow diagram
- Data flow diagram
- Data flow diagram

- Plan system implementation.
- Prepare a conversion schedule and target date.
- Determine training procedures, courses and timetable.
- Devise a test and implementation plan and specify any new hardware/software.
- Update benefits, costs, conversion date and system constraints.

Design/Specification activities:

- Concept formulation.
- Problem understanding.
- High level requirements proposals.
- Feasibility study.
- Requirements engineering.
- Architectural design.

MODULE DESIGN

Admin

The Administrator logs in using the admin login. In this module two operations are done. During login the Login and Password is verified with that in the database.

INPUT DESIGN

The design of input focuses on controlling the amount of input required, controlling the errors, avoiding delay, avoiding extra steps and keeping the process simple. The input is designed in such a way so that it provides security and ease of use with retaining the privacy. Input Design considered the following things:

- What data should be given as input?
- How the data should be arranged or coded?
- The dialog to guide the operating personnel in providing input.
- Methods for preparing input validations and steps to follow when error occur.

OBJECTIVES

Input Design is the process of converting a user-oriented description of the input into a computer-based system. This design is important to avoid errors in the data input process and show the correct direction to the management for getting correct information from the computerized system.

It is achieved by creating user-friendly screens for the data processing. The aim of data input design is to make data entry easy and to reduce the number of errors.

from errors. The data entry screen is designed in such a way that all the data manipulates can be performed. It also provides error checking facilities. When the data is entered it will check for its validity. Data can be entered with the help of screens. Appropriate messages are provided as when needed so that the user will not be in a maze of instant. Thus the objective of input design is to create an input layout that is easy to follow.

OUTPUT DESIGN

A quality output is one, which meets the requirements of the end user and presents the information clearly. In output design it is determined how the information is to be displayed for immediate need and also the hard copy output. It is the most important and direct source information to the user. Efficient and intelligent output design improves the system's relationship to help user decision-making.

Designing computer output should proceed in an organized, well thought out manner; the right output must be developed while ensuring that each output element is designed so that people will find the system can use easily and effectively. When analyzing design computer output, they should :

- ❖ Identify the specific output that is needed to meet the requirements.
- ❖ Select methods for presenting information.
- ❖ Create document, report, or other formats that contain information produced by the system.

3.3 DATABASE DESIGN

A database is an organized mechanism that has the capability of storing information through which a user can retrieve stored information in an effective and efficient manner. The data is the purpose of any database and must be protected.

The database design is a two level process. In the first step, user requirements are gathered together and a database is designed which will meet these requirements as clearly as possible. This step is called Information Level Design and it is taken independent of any individual DBMS.

In the second step, this Information level design is transferred into a design for the specific DBMS that will be used to implement the system in question. This step is called Physical Level Design, concerned with the characteristics of the specific DBMS that will be used. A database design runs parallel with the system design. The organization of the data in the database is aimed to achieve the following two major objectives.

- ❖ Data Integrity
- ❖ Data Independence

Normalization is the process of decomposing the tables in an application database into a set of tables with very specific structure. The purpose of normalization is to make the data more consistent and to reduce the chances of data anomalies.

- To structure the data so that there is no repetition of data - this helps in saving
- To permit simple retrieval of data in response to query and report request
- To simplify the maintenance of the data through updates, insertion, deletion, as requirements arise.

RELATIONAL DATABASE MANAGEMENT SYSTEM (RDBMS):

A relational model represents the database as a collection of relations. Each relation resembles a table of values or file of records. In formal relational model terminology, a row is called a tuple, a column header is called an attribute and the table is called a relation. A relational database consists of a collection of tables, each of which is assigned a unique name. A row in a table represents a set of related values.

RELATIONS, DOMAINS & ATTRIBUTES:

A table is a relation. The rows in a table are called tuples. A tuple is an ordered set of n elements. Columns are referred to as attributes. Relationships have been set between every table in the database. This ensures both Referential and Entity Relationship Integrity. A domain D is a set of atomic values. A common method of specifying a domain is to specify a data type from which the data values forming the domain are drawn. It is also useful to specify a name for the domain to help in interpreting its values. Every value in a relation is atomic, that is not decomposable.

RELATIONSHIPS:

Table relationships are established using Key. The two main keys of prime importance are Primary Key & Foreign Key. Entity Integrity and Referential Integrity Relationships can be established with these keys. Entity Integrity enforces that no Primary Key can have null values. Referential Integrity enforces that no Primary Key can have null values.

Referential Integrity for each distinct Foreign Key value, there must exist a matching Primary Key value in the same domain. Other key are Super Key and Candidate Keys. Relationships have been set between every table in the database. This ensures both Referential and Entity Relationship Integrity.

NORMALIZATION:

As the name implies, it denoted putting things in the normal form. The application developer via normalization tries to achieve a sensible organization of data into proper tables and columns, and where names can be easily correlated to the data by the user. Normalization eliminates repeating groups of data and thereby avoids data redundancy which poses a great burden on the computer resources. There are four:

- 1. First Normal Form
- 2. Second Normal Form
- 3. Third Normal Form
- 4. Fourth Normal Form

First Normal Form:

The First Normal Form states that the domain of an attribute must include only atomic values and that the value of any attribute in a tuple must be a single value from the domain of that attribute. In other words 1NF disallows "relations within relations" or "relations as attribute values within tuples". The only attribute values permitted by 1NF are single atomic or indivisible values.

The first step is to put the data into First Normal Form. This can be done by moving data into separate tables where the data is of similar type in each table. Each table is given a Primary Key or Foreign Key as per requirement of the project. In this we form new relations for each nonatomic attribute or nested relation. This eliminated repeating groups of data.

A relation is said to be in first normal form if only if it satisfies the constraints that contain the primary key only.

Second Normal Form:

According to Second Normal Form, For relations where primary key contains multiple attributes, no nonkey attribute should be functionally dependent on a part of the primary key.

In this we decompose and setup a new relation for each partial key with its dependent attributes. Make sure to keep a relation with the original primary key and any attributes that are fully functionally dependent on it. This step helps in taking out data that is only dependant on a part of the key.

A relation is said to be in second normal form if and only if it satisfies all the first normal form conditions for the primary key and every non-primary key attributes of the relation is fully dependent on its primary key alone.

Third Normal Form:

According to Third Normal Form, Relation should not have a nonkey attribute functionally determined by another nonkey attribute or by a set of nonkey attributes. That is, there should be no transitive dependency on the primary key.

In this we decompose and set up relation that includes the nonkey attributes that functionally determines other nonkey attributes. This step is taken to get rid of anything that does not depend entirely on the Primary Key.

A relation is said to be in third normal form if only if it is in second normal form and moreover the non key attributes of the relation should not be depend on other non key attribute.

TABLES STRUCTURE

Table: bank_table
Primary bank id

Field	Data Type	Constraints	Description
bank id	Number(9)	Primary key	
name	char(30)		
type	char(30)		
date	date		
Address	char(30)		
total	number		
Acc_no	number		

Table: bankwithdraw
Primary Key: b id

Field	Data Type	Constraints	Description
emp id	Number(9)	Primary key	
name	char(30)		
Acc no	Number		
date	date		
amount	Number		

Table: DailyTrans
Primary Key: Account no:

Field	Data Type	Constraints	Description
Account no	Number(9)	Primary key	
firstname	char(30)		
surname	char(30)		
date	date		
TransactionName	char(30)		
Transaction amount	Number(9)		
Previous Balance	Number(9)		
Current Balance	Number(9)		
Current Sum	char(30)		

Table: current

Primary Key: account no

Field	Data Type	Constraints	Description
Account no	Number(9)	Primary key	
Surname	char(30)		
Firstname	char(30)		
Account type	Char(30)		
Current balance	char(30)		

Table: Account type

Primary account no

Field	Data Type	Constraints	Description
Account no	Number(9)	Primary key	
Surname	char(30)		
Firstname	char(30)		
DateOfOpening	date		
Address	char(30)		
Phone no	Number(9)		
Occupation	char(30)		
Nextofkin	char(30)		
Account Type	char(30)		
Account status	char(30)		
Opening amount	Number(9)		

SYSTEM DEVELOPMENT

1.1 SYSTEM SPECIFICATION

HARDWARE REQUIREMENTS

Processor	: X86 Compatible processor with 1.7 GHz Clock speed
RAM	: 512 MB or more
Hard disk	: 20 GB or more
Monitor	: VGA/SVGA
Keyboard	: 104 Keys
Mouse	: 2 buttons/ 3 buttons

SOFTWARE REQUIREMENTS

Operating System	: Windows 2000/XP
Front end	: Visual Basic 6.0
Back end	: MS Access

4.2 SOFTWARE ENVIRONMENT

The Control Properties

Before writing an event procedure for the control to response to a user's input, you have to set certain properties for the control to determine its appearance and how it will work with the event procedure. You can set the properties of the controls in the properties window or at runtime.

Handling some of the common controls

3.2.1 The Text Box

The text box is the standard control for accepting input from the user as well as to receive the output. It can handle string (text) and numeric data but not images or pictures. String in a text box can be converted to numeric data by using the `Val` function. The following code sample illustrates a simple program that processes the input from a text box.

pictures. String in a text box can be converted to a numeric data by using the function Val(text). The following example illustrates a simple program that processes the input from the user.

Example 3.1

In this program, two text boxes are inserted into the form together with a few labels. The two text boxes are used to accept inputs from the user and one of the labels will be used to display the sum of two numbers that are entered into the two text boxes. Besides, a command button is also programmed to calculate the sum of the two numbers using the plus operator. The program use creates a variable sum to accept the summation of values from text box 1 and text box 2. The procedure to calculate and to display the output on the label is shown below. The output is shown in Figure 3.2

```
Private Sub Command1_Click()
```

```
    'To add the values in text box 1 and text box 2
```

```
    Sum = Val(Text1.Text) + Val(Text2.Text)
```

```
    'To display the answer on label 1
```

```
    Label1.Caption = Sum
```

```
End Sub
```

Figure 3.2

The screenshot shows a standard Windows-style window titled 'Form1'. Inside the window, there are three labels with corresponding text boxes. The first label is 'Number 1' followed by a text box containing the number '100'. The second label is 'Number 2' followed by a text box containing the number '500'. The third label is 'Sum' followed by a text box containing the number '600'. To the right of the 'Sum' text box is a button labeled 'Calculate'.

3.2.2 The Label

The label is a very useful control for Visual Basic, as it is not only used to provide instructions and guides to the users, it can also be used to display outputs. One of its most important properties is **Caption**. Using the syntax **label.Caption**, it can display text and numeric data. You can change its caption in the properties window and also at runtime. Please refer to Example 3.1 and Figure 3.1 for the usage of label.

3.2.3 The Command Button

The command button is one of the most important controls as it is used to execute commands. It displays an illusion that the button is pressed when the user click on it.

The most common event associated with the command button is the Click event and the syntax for the procedure is

```
Private Sub Command1_Click()
```

```
    Statement;
```

```
End Sub
```


The Picture Box is one of the controls that is used to handle graphics. You can load a picture at design phase by clicking on the picture item in the properties window and select the picture from the selected folder. You can also load the picture at runtime using the **LoadPicture** method. For example, the statement will load the picture grape.gif into the picture box.

```
Picture1.Picture=LoadPicture ("C:\VB program\Images\grape.gif")
```

You will learn more about the picture box in future lessons. The image in the picture box is not resizable.

3.2.5 The Image Box

The Image Box is another control that handles images and pictures. It functions almost identically to the picture box. However, there is one major difference, the image in an Image Box is stretchable, which means it can be resized. This feature is not available in the Picture Box. Similar to the Picture Box, it can also use the LoadPicture method to load the picture. For example, the statement loads the picture grape.gif into the image box.

```
Image1.Picture=LoadPicture ("C:\VB program\Images\grape.gif")
```

3.2.6 The List Box

The function of the List Box is to present a list of items where the user can click and select the items from the list. In order to add items to the list, we can use the **AddItem method**. For example, if you wish to add a number of items to list box 1, you can key in the following statements

Example 3.2

```
Private Sub Form_Load ( )
```

```
List1.AddItem "Lesson1"
```

```
List1.AddItem "Lesson2"
```

```
List1.AddItem "Lesson3"
```

```
List1.AddItem "Lesson4"
```

```
End Sub
```

The items in the list box can be identified by the **ListIndex** property, the value of the ListIndex for the first item is 0, the second item has a ListIndex 1, and the second item has a ListIndex 2 and so on

3.2.7 The Combo Box

The function of the Combo Box is also to present a list of items where the user can click and select the items from the list. However, the user needs to click on the small arrowhead on the right of the combo box to see the items which are presented in a drop-down list. In order to add items to the list, you can also use the **AddItem method**. For example, if you wish to add a number of items to combo box 1, you can key in the following statement:

Example 3.3

```
Private Sub Form_Load ( )
```

```
Combo1.AddItem "Item1"
```

```
Combo1.AddItem "Item2"
```

```

Combo1.AddItem "Item3"
Combo1.AddItem "Item4"
End Sub

```

3.2.8 The Check Box

The Check Box control lets the user select or unselect an option. When the Check Box is checked, its value is set to 1 and when it is unchecked, the value is set to 0. You can include the statements `Check1.Value=1` to mark the Check Box and `Check1.Value=0` to unmark the Check Box, as well as use them to initiate certain actions. For example, the program will change the background color of the form to red when the check box is unchecked and it will change to blue when the check box is checked. You will learn about the conditional statement `If...Then...Elseif` in later lesson. `VbRed` and `vbBlue` are color constants and `BackColor` is the background color property of the form.

3.2.9 The Option Box

The Option Box control also lets the user select one of the choices. However, two or more Option Boxes must work together because as one of the Option Boxes is selected, the other Option Boxes will be unselected. In fact, only one Option Box can be selected at one time. When an option box is selected, its value is set to "True" and when it is unselected; its value is set to "False". In the following example, the shape control is placed in the form together with six Option Boxes. When the user clicks on different option boxes, different shapes will appear. The values of the shape control are 0, 1, and 2,3,4,5 which will make it appear as a rectangle, a square, an oval shape, a rounded rectangle and a rounded square respectively.

Example 3.4

```

Private Sub Option1_Click ()
Shape1.Shape = 0
End Sub
Private Sub Option2_Click()
Shape1.Shape = 1
End Sub
Private Sub Option3_Click()
Shape1.Shape = 2
End Sub
Private Sub Option4_Click()
Shape1.Shape = 3
End Sub
Private Sub Option5_Click()
Shape1.Shape = 4
End Sub
Private Sub Option6_Click()
Shape1.Shape = 5
End Sub

```

3.2.10 The Drive List Box

The Drive ListBox is for displaying a list of drives available in your computer. When you place this control into the form and run the program, you will be able to select different drives from your computer as shown in Figure 3.3

3.2.11 The Directory List Box

The Directory List Box is for displaying the list of directories or folders in a selected drive. When you place this control into the form and run the program, you will be able to select different directories from a selected drive in your computer as shown in Figure 3.4

3.2.12 The File List Box

The File List Box is for displaying the list of files in a selected directory or folder. When you place this control into the form and run the program, you will be able to shown the list of files in a selected directory as shown in Figure 3.5
You can coordinate the Drive List Box, the Directory List Box and the File List Box to search for the files you want. The procedure will be discussed in later lessons.

CODING

5.1 CODING

Main Form Coding

```
Private Sub cmdQuit_Click()  
End  
End Sub
```

```
Private Sub Command1_Click()  
End  
End Sub
```

```
Private Sub MDIForm_Load()  
Call connectDatabase  
End Sub
```

```
Private Sub Toolbar1_ButtonClick(ByVal Button As MSComctlLib.Button)  
Select Case Button.Index  
Case 1:  
frmCustomers.Show  
Case 4:  
frmDeposits.Show  
Case 7:  
frmWithdrawal.Show  
Case 10:  
frmTransactions.Show  
End Select  
End Sub
```

```
Private Sub Toolbar1_ButtonMenuClick(ByVal ButtonMenu As  
MSComctlLib.ButtonMenu)  
Select Case ButtonMenu.Key  
Case "ac_type"  
frmAcTypes.Show
```

```
Case "ac_report"  
frmAcTypes.Show  
Case "ac_report_data_source"  
frmAcTypes.Show  
Case "ac_report_data_source_customer"  
frmAcTypes.Show
```

```
End Sub
```

```

Set rptDeposits.DataSource = Nothing
Set rptDeposits.DataSource = rsDeposit
rptDeposits.Show

```

```

Case "withdraw"
Set rptWithdrawals.DataSource = Nothing
Set rptWithdrawals.DataSource = rsWithdrawal
rptWithdrawals.Show

```

```

End Select
End Sub

```

```

Private Sub cmdAdd_Click()
NewRecord = True

```

```

cmdAdd.Enabled = False
cmdSave.Enabled = True

```

```

cmdCancel.Enabled = True
cmdEdit.Enabled = False
cmdQuit.Enabled = False
Call UnLock_Form_Controls(Me)
MsgBox ("Are Ypu sure")
Call clear_Form_Controls(Me)
Call GenerateNewAccountCode
txtAccountID.Locked = True
txtAccountName.SetFocus

```

```

End Sub

```

```

Private Sub cmdCancel_Click()
cmdAdd.Enabled = True
cmdSave.Enabled = False

```

```

cmdCancel.Enabled = False
cmdEdit.Enabled = True
cmdQuit.Enabled = True
With rsAccTypes
If NewRecord = True Then
CancelUpdate
NewRecord = False
Else
CancelUpdate
End If
Call DisplayAccTypeOnAccTypeForm
End With
MsgBox ("Are You Sure")
Call Lock_Form_Controls(Me)

```

End Sub

```
Private Sub cmdEdit_Click()  
NewRecord = False  
cmdAdd.Enabled = False  
cmdSave.Enabled = True  
cmdCancel.Enabled = False  
cmdEdit.Enabled = True  
cmdQuit.Enabled = True  
MsgBox ("Are you Sure to Edit")  
Call UnLock_Form_Controls(Me)
```

End Sub

```
Private Sub cmdFirst_Click()  
Call MoveToFirst(rsAccTypes)  
Call DisplayaccTypes(rsAccTypes)  
lblStatus.Caption = CStr("Record :" & rsAccTypes.AbsolutePosition & " of " &  
rsAccTypes.RecordCount)  
End Sub
```

```
Private Sub cmdLast_Click()  
Call MoveToLast(rsAccTypes)  
Call DisplayaccTypes(rsAccTypes)  
lblStatus.Caption = CStr("Record :" & rsAccTypes.AbsolutePosition & " of " &  
rsAccTypes.RecordCount)  
End Sub
```

```
Private Sub cmdNext_Click()  
Call MoveToNext(rsAccTypes)  
Call DisplayaccTypes(rsAccTypes)  
lblStatus.Caption = CStr("Record :" & rsAccTypes.AbsolutePosition & " of " &  
rsAccTypes.RecordCount)
```

End Sub

```
Private Sub cmdPrevious_Click()  
Call MoveToPrev(rsAccTypes)  
Call DisplayaccTypes(rsAccTypes)  
lblStatus.Caption = CStr("Record :" & rsAccTypes.AbsolutePosition & " of " &  
rsAccTypes.RecordCount)  
End Sub
```

```
Private Sub cmdQuit_Click()  
MsgBox ("Are you Sure to Exit")  
End Sub
```

End Sub

End Sub

```
Private Sub cmdOk_Click()  
With deBankUba  
    .conBankUba.Open "PROVIDER=Microsoft.Jet.OLEDB.4.0;Data Source=" +  
App.Path + "\BankUba.mdb;"  
    .rsCmdStatement.Open "Select * From DailyTrans where [AccountNumber]='" &  
txtAcctNo & "'", deBankUba.conBankUba, adOpenDynamic, adLockOptimistic  
    .rptStatement.Show vbModal  
    .conBankUba.Close  
End With  
Unload Me  
End Sub
```

```
Private Sub cmdInquiry_Click()  
fraAcctType.Visible = True  
frmStatement.Caption = "Enter your Account Number"  
frmStatement.cmdSearch.Caption = "&Inquire"  
frmWel.fraTransaction.Visible = False  
End Sub
```

```
Private Sub cmdNewAcct_Click()  
frmNewAcct.Show vbModal  
End Sub
```

```
Private Sub cmdPin_Click()  
fraTransaction.Visible = False  
frmChangePin.Show vbModal  
End Sub
```

```
Private Sub cmdProceed_Click()  
fraAcctType.Visible = False  
frmStatement.Show vbModal  
End Sub
```

```
Private Sub cmdStatement_Click()  
fraTransaction.Visible = False  
fraAcctType.Visible = True  
End Sub
```

```
Private Sub cmdTransfer_Click()  
strMessage = "This Service is Un-Avialable at the moment, Please bear with us"  
MsgBox strMessage, vbInformation, "A T M SERVICE"  
fraTransaction.Visible = True  
End Sub
```

```
Private Sub cmdWithdraw_Click()  
fraAcctType.Visible = True  
frmStatement.Caption = "Enter your Account Number"
```



```
frmStatement.cmdSearch.Caption = "&Find..."
frmWeb.fraTransaction.Visible = False
End Sub
```

```
Private Sub digits_Click(Index As Integer)
If cleandisplay Then
    txtDisplay.Text = ""
    cleandisplay = False
End If
txtDisplay.Text = txtDisplay.Text & digits(Index).Caption
End Sub
```

```
Private Sub Form_Activate()
'ShockwaveFlash1.Movie = App.Path & "\\" & "BANKING.LSWF"
ShockwaveFlash1.Play
ShockwaveFlash1.Loop = True
End Sub
```

```
Private Sub Form_Load()
Call OpenDB
fraSecretCode.Visible = True
End Sub
```

```
Private Sub mnudDeposit_Click()
frmDeposit.Show vbModal
End Sub
```

```
Dim currBalance As Currency
```

```
Private Sub cboCustomerNo_Click()
```

```
Set rsTemp = New ADODB.Recordset
rsTemp.Open "Select * FROM tblCustomers WHERE CustomerID = " &
cboCustomerNo.Text & "", cnBank, adOpenKeyset, adLockOptimistic
With rsTemp
```

```
If RecordCount > 0 Then
    txtAccountNo.Text = !AccountNo
```

```
    txtNarration.SetFocus
Else
MsgBox "Invalid Customer Code", vbInformation
```

```
txtAccountNo.Text = ""
```

```
Exit Sub
```

```
End If
```

```
End Sub
```

```
Dim frmItem As frmItem
```

```
Private Sub cboAccNo_Click()
```

```
Set rsTemp = New ADODB.Recordset
```

```

rsTemp.Open "Select * from tblCustomer Where AccountNo=" & cboAccNo.Text
& "", cnBank, adOpenKeyset, adLockOptimistic
With rsTemp
If RecordCount > 0 Then
cboAccNo = !AccountNo
cboCustomerID = !CustomerID
cboFirst = !FirstName
Else
MsgBox "Invalid customer ID/Name/Account NO. Please Try Again", vbInformation
Exit Sub
End If
.Close
End With

```

```

Set rsTemp = New ADODB.Recordset
rsTemp.Open "Select * from tblTransactions Where AccountNo=" & cboAccNo.Text
& "", cnBank, adOpenKeyset, adLockOptimistic
With rsTemp
If RecordCount > 0 Then
lwTransactions.ListItems.Clear
Call LoadListView(rsTemp)
'cboAccNo = !AccountNo
'cboCustomerID = !CustomerID
'cboFirst = !FirstName
Else
MsgBox "Invalid customer ID/Name/Account NO. Please Try Again", vbInformation
Exit Sub
End If
.Close
End With

```

End Sub

Private Sub cboCustomerID_Click()

```

Set rsTemp = New ADODB.Recordset
rsTemp.Open "Select * from tblCustomers Where customerID=" &
cboCustomerID.Text & "", cnBank, adOpenKeyset, adLockOptimistic
With rsTemp
If RecordCount > 0 Then
cboAccNo = !AccountNo
cboCustomerID = !CustomerID
cboFirst = !FirstName
Else
MsgBox "Invalid customer ID/Name/Account NO. Please Try Again", vbInformation
Exit Sub
End If

```

End With

```
Set rsTemp = New ADODB.Recordset
rsTemp.Open "Select * from tblTransactions Where customerID=" &
cboCustomerID.Text & "'", cnBank, adOpenKeyset, adLockOptimistic
With rsTemp
If RecordCount > 0 Then
lvwTransactions.ListItems.Clear
Call LoadListView(rsTemp)
Else
MsgBox "No Transactions bearing this customer ID. Please Try Again",
vbInformation
Exit Sub
End If
.Close
End With
End Sub
```

```
Private Sub cboFirst_Click()
Set rsTemp = New ADODB.Recordset
rsTemp.Open "Select * from tblCustomers Where FirstName=" & cboFirst.Text &
"", cnBank, adOpenKeyset, adLockOptimistic
With rsTemp
If RecordCount > 0 Then
cboAccNo = !AccountNo
cboCustomerID = !CustomerID
cboFirst = !FirstName
Else
MsgBox "Invalid customer ID/Name/Account NO. Please Try Again", vbInformation
Exit Sub
End If
.Close
End With
```

```
Set rsTemp = New ADODB.Recordset
rsTemp.Open "Select * from tblTransactions Where CustomerID=" &
cboCustomerID.Text & "'", cnBank, adOpenKeyset, adLockOptimistic
With rsTemp
If RecordCount > 0 Then
lvwTransactions.ListItems.Clear
Call LoadListView(rsTemp)
Else
MsgBox "No Transactions bearing this customers' first name. Please Try Again",
vbInformation
Exit Sub
End If
.Close
End With
```

```

Private Sub cmdEdit_Click()
With rsTransactions
.MoveFirst
While Not .EOF

```

```

If lvwTransactions.SelectedItem.ListSubItems(9) = !Code Then
frmTransaction.txtCustomerID.Text = !CustomerID
frmTransaction.txtAccountNo.Text = !AccountNo
frmTransaction.txtNarration.Text = !Narration
frmTransaction.txtCheckNo.Text = !CheckNO
frmTransaction.txtDated.Value = !Dated
frmTransaction.txtDebit.Text = !Debit
frmTransaction.txtMode.Text = !Mode
frmTransaction.txtCredit.Text = !Credit
frmTransaction.txtBalance.Text = !Balance
frmTransaction.txtCode.Text = !Code
.MoveLast
.MoveNext
Else
.MoveNext
End If
Wend
frmTransaction.Show
MsgBox ("Are You Sure")
End With
End Sub

```

```

Private Sub cmdOk_Click()
Set rsTemp = New ADODB.Recordset
rsTemp.Open "Select * from tblTransactions Where Dated BETWEEN #" &
dtFrom.Value & "# AND #" & dtTo.Value & "#", cnBank, adOpenKeyset,
adLockOptimistic
With rsTemp
If .RecordCount > 0 Then
lvwTransactions.ListItems.Clear
Call LoadListView(rsTemp)
Else
MsgBox "No Transactions Were carried out between these Dates. Please Try Again",
vbInformation
Exit Sub
End If
Close
End With
End Sub

```

```

.cmdStatement_Grouping Val(lvwTransactions.SelectedItem.Text)
rptStatement.Show
End With
"Dim strSql As String
"strSql
tblCustomers.FirstName,tblCustomers.LastName,tblCustomers.Address,tblCustomers
.PostalCode,tblCustomers.Location,tblCustomers.OpeningBalance,tblCustomers.Cust
omerID,tblTransactions.AccountNo,tblTransactions.Debit,tblTransactions.Credit,tblT
ransactions.Dated,tblTransactions.Mode,tblTransactions.CheckNo,tblTransactions.Co
de
from tblCustomers,tblTransactions
tblCustomers.CustomerID=tblTransactions.CustomerID
tblTransactions.Code=4"" "& lvwTransactions.SelectedItem.ListSubItems(9).Text &
""
"strSql = " SELECT tblCustomers.AccountNo, tblCustomers.Address, "
"strSql = strSql & "tblCustomers.LastName, tblCustomers.FirstName, "
"strSql = strSql & "tblCustomers.CustomerID, "
"strSql = strSql & "tblCustomers.Location, tblCustomers.OpeningBalance, "
"strSql = strSql & "tblCustomers.PostalCode, tblTransactions.Code, "
"strSql = strSql & "tblTransactions.CheckNo, tblTransactions.Credit, "
"strSql = strSql & "tblTransactions.Debit, tblTransactions.Mode "
"
"strSql = strSql & "From tblCustomers, tblTransactions "
"strSql = strSql & "Where tblCustomers.CustomerID = tblTransactions.CustomerID"
"
"Set rsTemp = New ADODB.Recordset
"rsTemp.Open strSql, cnBank, adOpenKeyset, adLockOptimistic
"With deBank
".Commands("cmdStatement").Parameters = lvwTransactions.SelectedItem.Text
".cmdStatement_Grouping(,lvwTransactions.SelectedItem.ListSubItems(9))=
".Commands("cmdStatement_Grouping").Parameters("tblCustomersCode") = "1"
"End With

'With rsTemp
'If .RecordCount > 0 Then
'Set rptStatement.DataSource = Nothing
'Set rptStatement.DataSource = rsTemp
'rptStatement.Show
'Else
'MsgBox "few"
'End If
'End With

End Sub

Private Sub cmdPrintAll_Click()
rptStatement.Show
End Sub

```


End Sub

Private Sub DTPicker1_Click()

End Sub

Private Sub cmdRefresh_Click()

lvwTransactions.Refresh

End Sub

Private Sub Command1_Click()

End Sub

'Text1.Text = lvwTransactions.SelectedItem.Text

Private Sub Form_Load()

Call connectDatabase

Call LoadListView(rsTransactions)

With rsCustomers

.MoveFirst

For X = 1 To .RecordCount

cboCustomerID.AddItem !CustomerID

cboFirst.AddItem !FirstName

cboAccNo.AddItem !AccountNo

.MoveNext

Next X

End With

Frame1.Enabled = False

End Sub

Private Sub lvwTransactions_ColumnClick(ByVal ColumnHeader As _
MSCOMCTLLib.ColumnHeader)

' Sort according to data in this column

If lvwTransactions.Sorted And _

ColumnHeader.Index - 1 = lvwTransactions.SortKey Then

' Already sorted on this column, just invert the sort order

lvwTransactions.SortOrder = 1 - lvwTransactions.SortOrder

Else

lvwTransactions.SortOrder = lvwX.SortOrder

lvwTransactions.SortKey = ColumnHeader.Index - 1

End If

lvwTransactions.Sorted = True

End Sub



```

Public Sub LoadListView(myRs As Recordset)
With myRs
While Not .EOF
'lvwTransactions.ListItems.Add , , !CustomerID & " " & !AccountNo ' & " " &
!Narration & " " & !Dated & " " & !Debit & " " & !Credit
Set lstItem = lvwTransactions.ListItems.Add(, , !CustomerID)
lstItem.SubItems(1) = !AccountNo
lstItem.SubItems(2) = !Narration
lstItem.SubItems(3) = !Dated
lstItem.SubItems(4) = Format(!Debit, "#,###,##00.00")
lstItem.SubItems(5) = Format(!Credit, "#,###,##00.00")
lstItem.SubItems(6) = !Mode
lstItem.SubItems(7) = !CheckNO
lstItem.SubItems(8) = !Balance
lstItem.SubItems(9) = !Code
.MoveNext
Wend
End With
End Sub

```

```

Private Sub lvwTransactions_DblClick()
Call cmdEdit_Click
End Sub

```

```

Private Sub Option1_Click()
Frame1.Enabled = True
End Sub

```

```

Private Sub Option2_Click()
Frame1.Enabled = False
Set rsTemp = New ADODB.Recordset
rsTemp.Open "Select * from tblTransactions", cnBank, adOpenKeyset,
adLockOptimistic
With rsTemp
If .RecordCount > 0 Then
lvwTransactions.ListItems.Clear
Call LoadListView(rsTemp)
Else
MsgBox "Database Empty..", vbInformation
Exit Sub
End If
Close
End With
End Sub

```

```

Private Sub cmdPrint_Click()

```



```

!Narration = txtNarration.Text
!CheckNO = "N/A"
!Dated = txtDated.Value
!Debit = "00"
!Mode = "N/A"
!Credit = txtAmountWithdrawn.Text
!Balance = currBalance
.Update
End With

```

```

Set rsTemp = New ADODB.Recordset
rsTemp.Open "Select * FROM tblBalances WHERE CustomerID = " &
cboCustomerNo.Text & "", cnBank, adOpenKeyset, adLockOptimistic
With rsTemp
!Balance = currBalance
.Update
.Requery
.Close
End With

```

```

rsBalances.Open "UPDATE tblBalances SET Balance = " & currBalance & "
WHERE CustomerID=" & cboCustomerNo.Text & "", cnBank, adOpenKeyset,
adLockOptimistic

```

```

End Sub

```

```

Private Sub cmdWithdraw_Click()
NewRecord = True
Call clear_Form_Controls(Me)
Call GenerateNewTransactCode
cboCustomerNo.SetFocus
MsgBox ("You are successfully Withdrawed,plz check your current balance,Thank
You....")
End Sub

```

```

Private Sub Form_Load()
Call connectDatabase

```

```

With rsCustomers
For X = 1 To .RecordCount
cboCustomerNo.AddItem !CustomerID
MoveNext
Next X
End With
txtDated.Value = Date
End Sub

```

```

Public Sub GenerateNewTransactCode()
Dim TransactCode As String
TransactCode = "A" & Format(Now, "MMDDYY")

```



```

If BOF = True And EOF = True Then
    lastnumber = 1000
Else
    .MoveLast
    lastnumber = !TransactionID
End If
'Generate New Number
newnumber = lastnumber + 1
txtTransactionID.Text = newnumber
End With
End Sub

```

```

Private Sub txtAccountNo_Change()
txtNarration.SetFocus
End Sub

```

```

Private Sub txtAmountwithdrawn_KeyPress(KeyAscii As Integer)
Call ValidNumeric(KeyAscii)

```

```

End Sub

```

```

Private Sub txtNarration_KeyPress(KeyAscii As Integer)
KeyAscii = Asc(UCase$(Chr$(KeyAscii)))
If KeyAscii = 13 Then txtAmountWithdrawn.SetFocus
End Sub
End With

```

```

Set rsTemp = New ADODB.Recordset
rsTemp.Open "Select * FROM tblBalances, WHERE CustomerID='" &
    chCustomerNo.Text & "'", cnBank, adOpenKeyset, adLockOptimistic
With rsTemp
If RecordCount > 0 Then
tblBalance.Caption = !Balance
Else
Exit Sub
End If
Close
End With
End Sub

```

```

Private Sub txtWithdrawal_KeyPress(KeyAscii As Integer)
KeyAscii = Asc(UCase$(Chr$(KeyAscii)))

```

```
Exit Sub
End If
```

```
If txtCheckNo.Text = "" Then
MsgBox "Please Enter the Check No.", vbInformation
txtCheckNo.SetFocus
Exit Sub
End If
```

```
With rsDeposit
If NewRecord = True Then .AddNew
!TransactionID = txtTransactionID.Text
!CustomerID = cboCustomerNo.Text
!AccountNo = txtAccountNo.Text
!Narration = txtNarration.Text
!AmountDeposited = txtAmountDeposited.Text
!Mode = txtMode.Text
!CheckNO = txtCheckNo.Text
!Dated = txtDated.Value
.Update
End With
```

```
currBalance = (CCur(lblBalance.Caption) + CCur(txtAmountDeposited.Text))
```

```
With rsTransactions
.AddNew
!CustomerID = cboCustomerNo.Text
!AccountNo = txtAccountNo.Text
!Narration = txtNarration.Text
!CheckNO = txtCheckNo.Text
!Dated = txtDated.Value
!Debit = txtAmountDeposited.Text
!Mode = txtMode.Text
!Credit = "00"
!Balance = currBalance
.Update
End With
```

```
Set rsTemp = New ADODB.Recordset
rsTemp.Open "Select * FROM tblBalances WHERE CustomerID = " &
cboCustomerNo.Text & "", cnBank, adOpenKeyset, adLockOptimistic
With rsTemp
!Balance = currBalance
.Update
.MoveFirst
.MoveNext
.MoveNext
End With
```

```
rsBalances.Open "UPDATE tblBalances SET Balance = " & curBalance & "
WHERE CustomerID=" & cboCustomerNo.Text & " ", cnBank, adOpenExclusive,
adLockOptimistic
```

```
End Sub
```

```
Private Sub Form_Load()
Call connectDatabase
```

```
With rsCustomers
For X = 1 To .RecordCount
cboCustomerNo.AddItem !CustomerID
.MoveNext
Next X
End With
txtDated.Value = Date
End Sub

Public Sub GenerateNewTransactCode()
Dim lastnumber As Long, newnumber As Long
'Check if there are records in the file
With rsDeposit
If .BOF = True And .EOF = True Then
lastnumber = 1000
Else
.MoveNext
lastnumber = !TransactionID
End If
'Generate New Number
newnumber = lastnumber + 1
txtTransactionID.Text = newnumber
End With
End Sub
```

```
Private Sub optCash_Click()
txtCheckNo.Text = "N/A"
txtCheckNo.Locked = True
txtMode.Text = "CASH"
```

```
End Sub
```

```
Private Sub optCheque_Click()
txtMode.Text = "CHEQUE"
txtCheckNo.Text = ""
txtCheckNo.Locked = False
txtCheckNo.SetFocus
```

```
Private Sub optDeposit_Click()
txtMode.Text = "DEPOSIT"
txtCheckNo.Text = ""
```



```

txtCheckNo.Text = "N/A"
txtCheckNo.Locked = True
txtOther.SetFocus
End Sub
Private Sub txtAccountNo_Change()
txtNarration.SetFocus
End Sub

```

```

Private Sub txtAmountDeposited_KeyPress(KeyAscii As Integer)
Call ValidNumeric(KeyAscii)
If KeyAscii = 13 Then optCash.SetFocus
End Sub

```

```

Private Sub txtCheckNo_KeyPress(KeyAscii As Integer)
If KeyAscii = 13 Then cmdSave.SetFocus
End Sub

```

```

Private Sub txtMode_LostFocus()
If txtMode.Text = "" Then
MsgBox "Select the Mode of Transaction", vbInformation
End If
End Sub

```

```

Private Sub txtNarration_KeyPress(KeyAscii As Integer)
KeyAscii = Asc(UCase$(Chr$(KeyAscii)))
If KeyAscii = 13 Then txtAmountDeposited.SetFocus
End Sub

```

```

Private Sub txtOther_LostFocus()
txtMode.Text = txtOther.Text
End Sub

```

```

.Update
MsgBox "Pin Has been Successfull changed!", vbInformation
Unload Me
frmWel.fraTransaction.Visible = True
Else
MsgBox "Confirm Pin does not march with New Pin", vbInformation
txtOldPin = ""
txtNewPin = ""
txtConfNewPin = ""
txtOldPin.SetFocus
End If

```

```

End With

```

```

End Sub

```

```

Private Sub cmdReset_Click()
Unload Me
frmWel.fraTransaction.Visible = True

```



End Sub

```
Private Sub Form_Load()  
Call tblSecretCode  
Call OpenDB  
End Sub
```

Transaction

```
Private Sub cmd1000_Click()  
txtWAmtDpt = "1000"  
WithD = txtWAmtDpt  
Call Withdraw  
End Sub
```

```
Private Sub cmd2000_Click()  
txtWAmtDpt = "2000"  
WithD = txtWAmtDpt  
Call Withdraw  
End Sub
```

```
Private Sub cmd3000_Click()  
txtWAmtDpt = "3000"  
WithD = txtWAmtDpt  
Call Withdraw  
End Sub
```

```
Private Sub cmd4000_Click()  
txtWAmtDpt = "4000"  
WithD = txtWAmtDpt  
Call Withdraw  
End Sub
```

```
Private Sub cmd5000_Click()  
txtWAmtDpt = "5000"  
WithD = txtWAmtDpt  
Call Withdraw  
End Sub
```

```
Private Sub cmdOthers_Click()  
MsgBox ("ok You can enter your choice")  
fraWamt.Visible = False  
fraAmt.Visible = False  
tblAmt.Visible = True  
cmdOthers.Visible = False  
txtWAmtDpt.Visible = True  
tblSecretCode.Visible = True  
End Sub
```

```

Private Sub cmdWClose_Click()
Unload Me
Unload frmStatement
frmStatement.Hide
frmWel.frmTransaction.Visible = True
End Sub
Private Sub Withdraw()
With rsT
.AddNew
.Fields(0) = txtWDate
.Fields(1) = ActVariable
.Fields(5) = "Withdrawal"
.Fields(6) = WithD
.Fields(7) = PrevBal
.Fields(8) = txtWCrrntBal
.Update
End With
With rsC
.Fields(4) = txtWCrrntBal
.Update
Unload Me
Me.Hide
End With
Unload frmWithD
frmWithD.Hide
frmWaitWithD.Show vbModal
MsgBox "The Sum of: " & WithD & " Has been Deducted from your account",
vbInformation
frmCash.cmdCancel.Visible = False
frmCash.lblDisplay.Visible = False
Load frmCash
frmCash.Show vbModal
End Sub

```

```

Private Sub cmdWDraw_Click()
Dim strMessage As String
Dim strWithAmt As String
With rsT
.AddNew
.Fields(0) = txtWDate
.Fields(1) = ActVariable
.Fields(5) = "Withdrawal"
.Fields(6) = txtWAmount
.Fields(7) = PrevBal
.Fields(8) = txtWCrrntBal
.Update

```

```

        Unload Me
        Me.Hide
    End With
    frmWaitWithD.Show vbModal
    Unload Me
    MsgBox " Your Toatl amount Has been Deducted from your account,plz wait...",
    vbInformation
    frmCash.cmdCancel.Visible = False
    frmCash.lblDisplay.Visible = False
    Load frmCash
    frmCash.Show vbModal
End Sub

```

```

Private Sub Form_Load()
    Call Master
    Call Trans
    Call Crent
    txtWDate = Date
    With rsC
        .Find "AccountNumber =" & ActVariable & ""
        If .EOF Then
            MsgBox "Account does not Exist! Please contact customer services",
            vbInformation, "A T M Service....."
        Else
            PrevBal = rsC.Fields(4)
            txtWAcctTyp = rsC.Fields(1)
            txtWSname = rsC.Fields(2)
            txtWFname = rsC.Fields(3)
            txtWPrevBal = PrevBal
        End If
    End With
End Sub

```

```

Private Sub txtWAmtDpt_Change()
    txtWCrrntBal = Val(txtWPrevBal) - Val(txtWAmtDpt)
End Sub

```

```

Private Sub ClearWBoxes()

```

```

    txtWDate = ""
    txtWAcctTyp = ""
    txtWAcctNum = ""
    txtWSname = ""
    txtWFname = ""
    txtWIDname = ""
    txtWAmountDpt = ""
    txtWPrevBal = ""
    txtWCrrntBal = ""

```

```

End Sub

```



```

Private Sub cmdSearch_Click()
    If cmdSearch.Caption = "&View Statement" Then
        ActVariable = txtStAcctNum.Text
        Unload Me
        Load frmWait
        frmWait.Show
        frmWel fraTransaction.Visible = False
        Exit Sub
    ElseIf cmdSearch.Caption = "&Process" Then
        ActVariable = txtStAcctNum
        Call Crent
        With rsC
            Find "AccountNumber =" & ActVariable & ""
            If EOF Then
                MsgBox "Account does not Exist! Please contact customer services",
                vbInformation, "A T M Service....."
                txtStAcctNum = ""
                txtStAcctNum.SetFocus
                cmdSearch.Caption = "&Process"
            Else
                Unload Me
                Me.Hide
                Load frmWithD
                frmWithD.Show vbModal
            End If
        End With
    Else
        ActVariable = txtStAcctNum
        Call Crent
        With rsC
            Find "AccountNumber =" & ActVariable & ""
            If EOF Then
                MsgBox "Account does not Exist! Please contact customer services",
                vbInformation, "A T M Service....."
                txtStAcctNum = ""
                txtStAcctNum.SetFocus
                cmdSearch.Caption = "&Inquire"
            Else
                Unload Me
                Me.Hide
                frmWel fraInquire.Visible = False
                frmWel fraEndOf.Visible = False
                frmWel fraEndOf.Visible = False
                frmWel fraEndOf.Visible = False
            End If
        End With
    End If
End Sub

```

```
frmWel.fraTransaction.Visible = True
frmWel.fraAcctType.Visible = False
frmWel.fraSecretCode.Visible = False
End Sub
```

5.2 SYSTEM IMPLEMENTATION AND TESTING

Implementation is the stage of the project where the theoretical design is turned into a working system. It can be considered to be the most crucial stage in achieving a successful new system gaining the users confidence that the new system will work and will be effective and accurate. It is primarily concerned with user training and documentation. Conversion usually takes place about the same time the user is being trained or later. Implementation simply means convening a new system design into operation, which is the process of converting a new revised system design into an operational one.

5.2.1. SYSTEM TESTING

Software Testing is the process of executing software in a controlled manner, in order to answer the question - Does the software behave as specified?. Software testing is often used in association with the terms verification and validation. Validation is the checking or testing of items, includes software, for conformance and consistency with an associated specification. Software testing is just one kind of verification, which also uses techniques such as reviews, analysis, inspections, and walkthroughs. Validation is the process of checking that what has been specified is what the user actually wanted.

Validation : Are we doing the right job?
Verification : Are we doing the job right?

Software testing should not be confused with debugging. Debugging is the process of analyzing and localizing bugs when software does not behave as expected. Although the identification of some bugs will be obvious from playing with the software, a methodical approach to software testing is a much more thorough means for identifying bugs. Debugging is therefore an activity which supports testing, but cannot replace testing.

Other activities which are often associated with software testing are static analysis and dynamic analysis. Static analysis investigates the source code of software, looking for problems and gathering metrics without actually executing the code. Dynamic analysis

looks at the behavior of software while it is executing, to provide information such as execution traces, timing profiles, and test coverage information.

Testing is a set of activity that can be planned in advanced and carried out systematically. It starts from at the module level and work toward the system level. The computer cannot do anything completely without testing. Software testing is one of the system testing objectives, there are several rules that can system testing objectives. They are:

Testing is a process of executing a program with the intend of finding an error. A good test case is one that has high possibility of finding an undiscovered error. A successful test is one that uncovers an undiscovered error.

If a testing is conducted successfully according to the objectives as stated above, it would uncover errors in the software also testing demonstrate that the software function appear to be working according to the specification, that performance requirement appear to have been met.

There are three ways to test program.

- For correctness
- For implementation efficiency
- For computational complexity

Test for correctness are supposed to verify that a program does exactly what it was designed to do. This is much more difficult than it may at first appear, especially for large programs.

TEST PLAN

A test plan implies a series of desired course of action to be followed in accomplishing various testing methods. The Test Plan acts as a blue print for the action that is to be followed. The software engineers create a computer program, its documentation and related data structures. The software developers is always responsible for testing the individual units of the programs, ensuring that each performs the function for which it was designed. There is an independent test group (ITG) which is to remove the inherent problems associated with letting the builder to test the thing that has been built. The specific objectives of testing should be stated in measurable terms. So that the mean time to failure, the cost to find and fix the defects, remaining defect density or frequency of occurrence and test work-hours per regression test all should be stated within the test plan.

The levels of testing include:

- Unit testing
- Integration Testing
- Data validation Testing
- Output Testing

UNIT TESTING

Unit testing has a verification effect on the smallest unit of software design, the software component or module. Using the computer-aided design description, the control paths and data responses remain within the boundary of the module. The relative complexity of test and coverage scope established for unit testing. The unit testing is white box testing. Unit test can be conducted in parallel

examined to ensure that data stored temporarily maintains its integrity during all steps in an algorithm's execution. Boundary conditions are tested to ensure that all statements in a module have been executed at least once. Finally, all error handling paths are tested.

Tests of data flow across a module interface are required before any other test is initiated. If data do not enter and exit properly, all other tests are moot. Selective testing of execution paths is an essential task during the unit test. Good design dictates that error conditions be anticipated and error handling paths set up to reroute or cleanly terminate processing when an error does occur. Boundary testing is the last task of unit testing step. Software often fails at its boundaries.

Unit testing was done in Sell-Soft System by treating each module as separate entity and testing each one of them with a wide spectrum of test inputs. Some flaws in the internal logic of the modules were found and were rectified.

INTEGRATION TESTING

Integration testing is systematic technique for constructing the program structure while at the same time conducting tests to uncover errors associated with interfacing. The objective is to take unit tested components and build a program structure that has been dictated by design. The entire program is tested as whole. Correction is difficult because isolation of causes is complicated by vast expanse of entire program. Once these errors are corrected, new ones appear and the process continues in a seemingly endless loop.

After unit testing in Sell-Soft System all the modules were integrated to test for any inconsistencies in the interfaces. Moreover differences in program structures were removed and a unique program structure was evolved.

VALIDATION TESTING OR SYSTEM TESTING

This is the final step in testing. In this the entire system was tested as a whole with all forms, code, modules and class modules. This form of testing is popularly known as Black Box testing or System testing.

Black Box testing method focuses on the functional requirements of the software. That is, Black Box testing enables the software engineer to derive sets of input conditions that will fully exercise all functional requirements for a program.

Black Box testing attempts to find errors in the following categories; incorrect or missing functions, interface errors, errors in data structures or external data access, performance errors, and initialization errors and termination errors.

OUTPUT TESTING OR USER ACCEPTANCE TESTING

It is the final step in testing for user acceptance. Here it checks that the final product of the software should be in touch with the product as mentioned in the time-schedule, price and maintenance schedule wherever required. This step is with respect to the both system and

- ❖ Input Screen Designs,
- ❖ Output Screen Designs,
- ❖ Online message to guide the user and the file.

The above testing is done taking various kinds of test data. Preparation of test data plays a vital role in the system testing. After preparing the test data, the system under study is tested using that test data. While testing the system by which test data errors are again uncovered and corrected by using above testing steps and corrections are also noted for future use.

5.3. TRAINING

Once the system is successfully developed the next important step is to ensure that the administrators are well trained to handle the system. This is because the success of a system invariably depends on how they are operated and used. The implementation depends upon the right people being at the right place at the right time. Education involves creating the right atmosphere and motivating the user. The administrators are familiarized with the run procedures of the system, working through the sequence of activities on an ongoing basis.

Implementation is the state in the project where the theoretical design is turned into a working system. By this, the users get the confidence that the system will work effectively. The system can be implemented only after through testing.

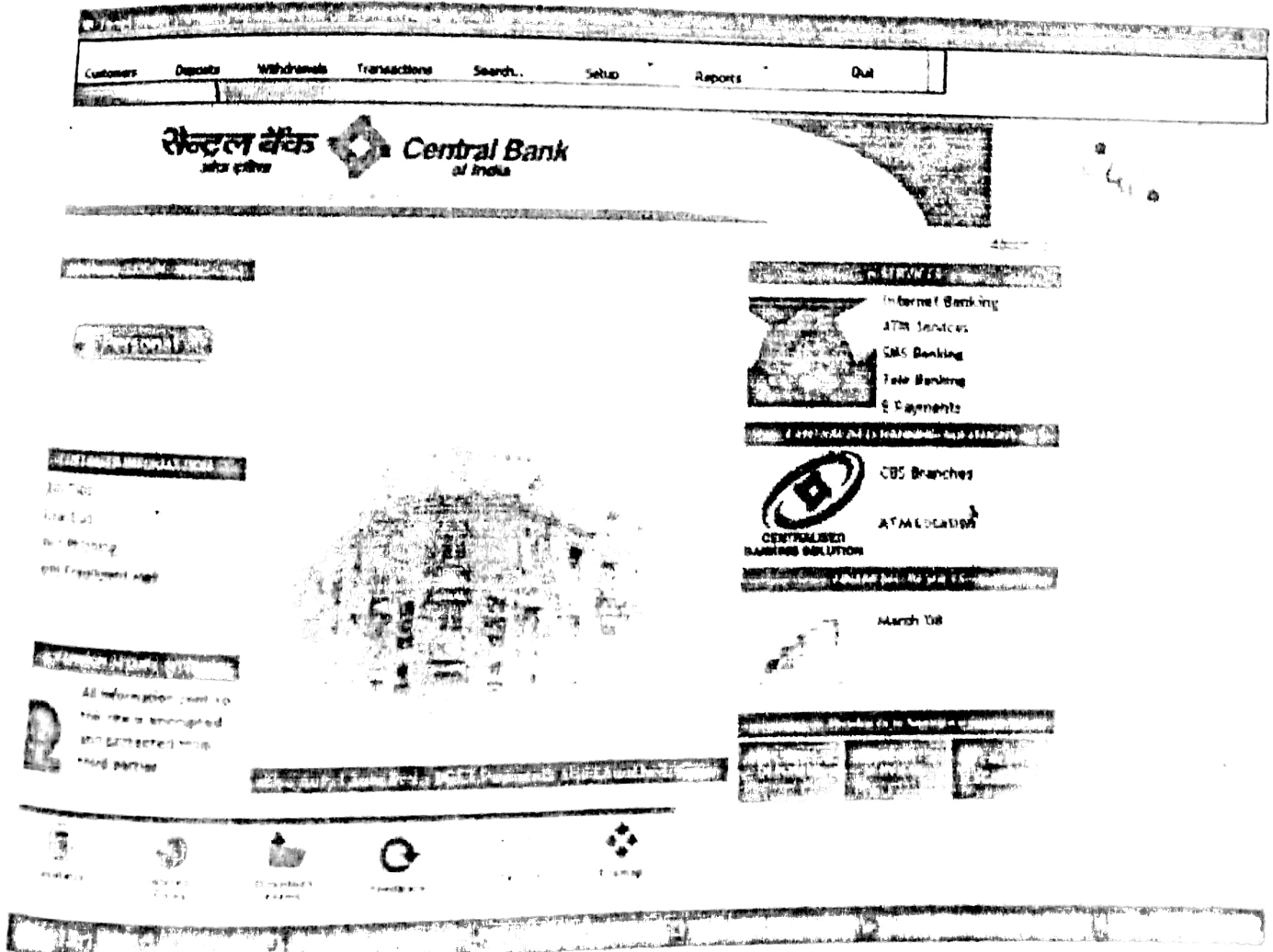
The systems personnel check the feasibility of the system. The actual data were inputted to the system and the working of the system was closely monitored. The master option was selected from the main menu and the actual data were input through the corresponding input screens. The data movement was studied and found to be correct queries option was then selected and this contains various reports. Utilities provide various data needed for inventory was input and the module was test run. Satisfactory results were obtained. Reports related to these processes were also successfully generated. Various input screen formats are listed in the appendix.

Implementation walkthroughs ensure that the completed system actually solves the original problem. This walkthrough occurs just before the system goes into use and it should include careful review of all manuals, training materials and system documentation. Again, users, the analyst and the members of the computer services staff may attend this meeting.

APPENDIX

SCREEN SHOTS

Login



Opening Form

Home Withdrawals Transactions Search Setup Reports Quit

CBI Account Opening Form

Central Bank of India

Customer ID:	2004001	Account Title:	PROFT	Press Release:	WOL LIAA
Legal Name:	AMUKR	Registered ID No:	57889800	Trade Date:	11/2/2004
Account Type:	SAVINGS				
Account No:	1ST10001				
Opening Balance:	0.0001				
Address:	452				
Location Name:	KIKUYU				
Postal Code:	4348				
Primary Address:	WILDCRYE@100.COM				
Identification:	(0735) (875458)				
Phone Number To:	(020)-56094				

Add Home

Page 1 of 1



Handwritten form with multiple sections and fields. The form is oriented vertically and contains several lines of text and checkboxes. The text is mostly illegible due to the quality of the scan, but some words like "Name", "Address", and "Phone" are visible. There are also several checkboxes and a large rectangular area that appears to be a signature or stamp area.

Handwritten text at the bottom of the page, possibly a signature or a date.

Customers	Deposits	Withdrawals	Transactions	Search	Setup	Reports	Quit
-----------	----------	-------------	--------------	--------	-------	---------	------

Account Number:

Account Type:

Amount:

Frequency:

Start Date:

End Date:

Record 1 of 4

Deposit Withdrawal Save Cancel Print Quit

Customer

Customers	Deposits	Withdrawals	Transactions	Search	Setup	Reports	Quit
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Zoom 100%

CUSTOMERS REPORT

AT AT Bank, August 12, 2007

Small information box on the right side of the report.

Customer ID	Customer Name	Account Type	Account Number
100001	JOHN DOE	Checking	123456789
100002	JANE DOE	Savings	987654321
100003	JOHN DOE	Checking	123456789
100004	JANE DOE	Savings	987654321
100005	JOHN DOE	Checking	123456789
100006	JANE DOE	Savings	987654321
100007	JOHN DOE	Checking	123456789
100008	JANE DOE	Savings	987654321
100009	JOHN DOE	Checking	123456789
100010	JANE DOE	Savings	987654321

Deposit Information



Customers	Deposits	Withdrawals	Transactions	Search	Setup	Reports	Quit
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General Account of Bank

Account No:

Account Name:

Account Type:

Initial Deposit:

Balance:

SEARCH:

Customer

Customers	Deposits	Withdrawals	Transactions	Search	Setup	Reports	Quit
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Zoom: 100%

CUSTOMERS REPORT
As of Sunday August 12, 2007

Account No: 001
Account Name: SAYINGS
Initial Deposit: 10000
Balance: 10000

CustomerID	0000001	Account No	001
First Name	YIM LAM	Customer Name	YIM LAM
Last Name	YIM LAM	Account Type	SAYINGS
Contact No	81000000	Opening Balance	10000
Address	411	Phone No	0000-0000
Home No	0000	Mobile No	0000-0000
Work No	0000	Fax No	0000-0000

Zoom: 100%

DEPOSITS
AS AT Sunday, August 12, 2007

TransactionID	CustomerID	AccountNo	NameOn	AmountDeposited	Mode	CheckNo
10	2004005	1ST10005	CC	878	CASH	N/A
1007	2004001	1ST10001	CERT	134	CASH	N/A
11	2004010	1	SAVING	345	CASH	N/A
12	2004005	1ST10005	CURRENT	234	CASH	N/A
13	2004011	8	CURRENT	2345	CASH	N/A

Page: 1 of 1

Buttons: Deposit, Give, Cancel, Print, Close

Transaction Report(Deposit&Withdrawal)

Zoom: 100%

DEPOSITS
AS AT Sunday, August 12, 2007

Customer: B-2307 L.T.E.
M. SINGH (M0000)
1785 LAKSHMI
THE DEBIT CARD
Email: info@debitbank.co.in
Website

TransactionID	CustomerID	AccountNo	NameOn	AmountWithdraw	Date
10	2004004	1ST10004	FOOD	496	7/1/2007
1004	2004001	1ST10001	FOOD	490	6/27/2007
1005	2004001	1ST10001	FOOD	56.7	6/27/2007
1006	2004004	1ST10004	FOOD	245	1/27/2008
1007	2004005	1ST10005	FW	678	6/27/2007
1008	2004004	1ST10004	FOOD	745	6/27/2007
1009	2004001	1ST10001	FOOD	482	1/28/2008
1010	2004005	1ST10005	CASH	488	6/27/2007
1011	2004001	1ST10001	CERT	370	6/27/2007

CONCLUSION



BOOKS:

1. Charles Hampf (2000) 'Visual Basic' University of Toronto
2. Herbert Schildt (2000) 'Visual Basic 6.0' Tata McGraw Hill
3. John Zukowski (2000) 'Visual Basic 6.0' 'BPB Publications
4. Jamie Jaworsky 'Visual Basic 6.0' Techmedia
5. Stefen Denninger 'Visual Basic 6.0' Author's Press
6. Ian Somerville 'Software engineering'
7. Rajeev mall 'Software engineering'
8. Elmasri Navathe 'Fundamentals of database systems'

ONLINE REFERENCE:

www.w3schools.com

www.theserverside.com

www.visual.com