SAGAR COLLEGE OF BCA JALNA

PROJECT REPORT

ON

IT SOFTWARE SOLUTION FOR BUSINESS

SUBMMITTED TO

DR.BABASAHEB AMBEDKAR MARATHWADA

UNIVERSITY SAMBHAJI NAGAR

IN THE PRATICAL FULFILLMENT FOR THE DEGREE

BACHLAR OF COMPUTER APPLICATION

ACADEMIC YEAR

2022-2023

SUBMITTED BY

KIRAN RAVAN KHARAT

UNDER THE GUIDEANCE OF BCA

B.E.SURADKAR

(LECTURER DEPT OF MANEGMENT SCIENCE)

SAGAR COLLEGE OF BCA JALNA

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CERTIFICATE

This us to certify that Kiran Ravan Kharat is bonafide student of Bachelor of Computer Application (B.C.A) of Sagar College of BCA Jalna.

I here by certify that this project report on IT SOFTWARE SOLUTION FOR BUSINESS is an original And junior work carried out in partial fulfillment of the requirement of the Bachelor of Computer Application (BCA TY) for the year 2022-2023 the information is true and original to the best my knowledge.

Internal Examiner

External Examiner

Principal
PRINCIPAL
Sagar BCA College
Devmurti, Tq. Dist. Jalna

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Skill India
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India skills

N·S·D·C
National
Skill Development
Corporation
Transforming the skill landscape

Test Project

Skill- IT Software Solutions for Business

Category: Information and Communication Technology

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Skill- IT Software Solution for Business

Skill Explained

The rapid pace of globalization over the past decade has been largely driven by developments in Information and Communication Technology (ICT). IT specialists are increasingly in great demand in several areas, one of which is providing software solutions for businesses.

The development of software solutions to improve business productivity encompasses many different skills and disciplines. Key to these is an awareness of the fast changing nature of the industry and the ability to keep up with the rapid pace of change.

IT software solution professionals always work closely with clients to modify existing systems or create new systems. They may modify "off the shelf" software and integrate it into the existing systems. They often work as part of a team of software professionals responsible for the requirement specification, system analysis and design, construction, testing, training, and implementation, as well as maintenance of a business software system.

Eligibility Criteria- Competitors born on or after 01 Jan 1997 are only eligible to attend the Competition

Duration of Test project: 4 hours

Preface

Section A-Test Project
Section B-Marking Scheme
Section C-Infrastructure List (Tool and equipment including raw material)
Section D- Instruction for Competitors
Section E- Health, Safety and Environment

Section A

Test Project

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Dr. Babasaheb Ambedkar Marathwada University,
AURANGABAD

SAGAR BCA COLLAGE DEVMURTI JALNA

A PROJECT REPORT ON:
A STUDY OF GROWTH PROSPECTS OF ONLINE REATAILORS AND E-COMMERCE IN INDIA

Submitted To

UNDER THE GUIDANCE OF

D.E.SURADKAR

Submitted by

Vidya Sarjerao Kharat

BSC COMPUTER SCIENCE (TY VI SEM) Year 2022-23

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STUDENT DECLARATION

This is to declare that this Summer Training Project report on "A Study of Growth Prospects of Online Retailors and E-Commerce in India" is a cord of genuine work done by me under the guidance of D.E.SURADKAR, in the partial fulfillment to the requirement for of Bachelor of Computer Science

I declare that this Summer Training project report is original and not submitted to any Other university before.

Signature of the Student

Student's Name: Vidya Sarjerao Kharat

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Dr. Babasaheb Ambedkar Marathwada University,
AURANGABAD

SAGAR BCA COLLAGE DEVMURTI JALNA

CERTIFICATE

This is to certify that, the following student

Vidya Sarjerao Kharat

Has successfully completed the summer internship project

"A Study of Growth Prospects of Online retailors and E-Commerce in India"

In the partial fulfillment of the requirement of Bachelor of Compute Some unexpected
by Dr. Babasaheb Ambedkar Marathwada University , AURANGABAD
For Academic Year 2022-2023

External Examiner

Internal Examiner

Principal
Dr.Mahajan v.v.

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\GANTT CHART

TYBAF SEM VI project work (Gantt Chart) / Time line for project completion
Name of the Student=Vidya Kharat
Mob No 9834504429

Task ID	Task Description	Task Duration in days	Start Date	End Date									
	Chapter No. 1: Introduction												
	Chapter No. 2: Research Methodology												
	Chapter No. 3: Literature Review												
	Chapter No. 4: Data Analysis, Interpretation and Presentation												
	Chapter No. 5: Conclusions and Suggestions												
	Bibliography, Appendix												
	First Draft												
	Second Draft												
	Final Draft												
	Students on No. of visits with date												

important:

1. Referencing style APA 6th
2. The Project Report shall be bounded
3. The project report should be 80 to 100 pages
4. Gantt chart shall be filled by faculties only
5. The final draft shall be signed by guiding teacher
6. The faculties are allowed to link the tasks in gantt chart
7. Be sure to display start and end dates for each task
8. Account for time off, holidays and internal exams
9. To define the critical path, use lines to connect a task

PROJECT GUIDE:

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ACKNOWLEDGENMENT

To list who all have helped me is difficult because they are so numerous and the depth is enormous.

I would like to acknowledge the following as being idealistic channels and fresh dimensions in the completion of projects.

I take this opportunity to thank the **UNIVERSITY OF Aurangabad** for giving me chance to do this project.

I would like to thank my **Principai** for providing thenecessary facilities required for completion of this project

I would like to thank my **College Library,** for having provided various reference books and magazines related to my project.

Lastly,I would like thank each and every person who directly or indirectly heiped me in the completion of the project especially my parents and peers who supported me

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DR.BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,AURANGABAD

Sagar B.C.A. College, Jalna

A Project Report On

"ANDROID APPLICATION DEVELOPMENT"

Submitted To

UNDER THE GUIDANCE OF

D. E. SURADKER

Submitted by

Jagtap Kunal Ravindra

BCS (TY VI Sem)

Year 2022-23

Scanned with OKEN Scanner

Department of Bachelor of Computer Science

BCS (TY IV Sem)

CERTIFICATE

This is to certify that, the following student

Jagtap Kunal Ravindra

Has successfully completed the summer internship project

"ANDROID APPLICATION DEVELOPMENT"

In the partial fulfillment of the requirement of Bachelor of Computer Science course asexpected by **Dr.Babasaheb Ambedkar Marathwada University, Aurangabad** for Academic Year **2022-23**.

External Examiner

Internal Examiner

Principal
D. E. SURDKER
PRINCIPAL
Sagar BCA College
Devmurti, Tq. Dist. Jalna

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STUDENT DECLARATION

This is to declare that this Summer Training Project report on "ANDROID APPLICATION DEVELOPMENT" is a record of genuine work done by me under the guidance of D. E. SURADKER . in thepartial fulfillment to the requirement for of Bachelor of Computer Science.

I declare that this Summer Training project report is original and not submitted to any other university before.

Signature of the Student:

Student's Name:- Jagtap Kunal Ravindra

PRN No :- 2020015200449527

Exam Seat No. NCS061297

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ACKNOWLEDGEMENT

While conducting this report, I got support in many ways from many people .First I am deeply grateful to my project guide **D. E. SURADKER** who helped me with full devotion and always supported me earnestly whenever it was needed. Without his guidance, mental & moral support and academic inputs this report was not possible.

This Training report could never have seen the light of the day without his co- operation of those Clients who participated in this. I am thankful to all of them for giving me their valuable time.

My friends have been biggest support for me at every juncture of life. They manifested their great interest in my research work also and always tried to make thingseasy for me.

A word of gratitude goes to my family members whose love; affection and understanding have enabled me to complete this end with ease.

At the end, I thank to Almighty for giving me courage and strength to conduct this project report.

(JAGTAP KUNAL)

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DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD

SAGAR COLLEGE, DEVMURTI, JALNA

A Project Report on

Marketing Of Information Product In University Libraries In Maharashtra Management And Services

Submitted to

Under the guidance of

Prof. Shri. Amit Kumar

Submitted By

Tanpure Ganesh Prakash

Masters of Library and Information Science (M.L.I.Sc.)

Year 2022-23

Seat No. CMLD401242

Scanned with OKEN Scanner

Department of Masters of Library and Information Science (M.L.I.Sc.)

CERTIFICATE

This is to certify that, the following student

Tanpure Ganesh Prakash

Has successfully completed the summer intership project

Marketing Of Information Product In University Libraries In Maharashtra Management And Services

In the partial fulfillment of the requirement of Masters of Library and Information Science (M.L.I.Sc.) course as expected by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for Academic Year - 2022-2023.

Student

Internal Examiner/ Guide

PRINCIPAL
Sagar College Jalna
Principal

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STUDENT DECLARATION

This is so declare that this Summer Training Project report on "Marketing Of Information Product In University Libraries In Maharashtra Management And Services" is a record of genuine work done by me under the guidance of Prof. Shri. Amit Kumar in the partial fulfillment to the requirement for Masters of Library and Information Science (M.L.I.Sc.)

I declare that this Summer Training project report is original and not submitted to any other university before

Signature of the Student

Student's name : Tanpure Ganesh Prakash

PRN No. : 2021015200777892

Exam Seat No. : CMLD401242

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ACKNOWLEDGEMENT

While conducting this report, I got support in many ways from many people. First I am deeply grateful to my project guide, Prof. Shri. Amit Kumar who helped me with full devotion and always supported me earnestly whenever it was needed. Without his guidance, mental & moral support and academic inputs this report was not possible.

This Training report could never have seen the light of the day without his co-operation of those Clients who participated in this. I am thankful to all of them for giving me their valuable time.

My friends have been biggest support for me at every juncture of life. They manifested their great interest in my research work also and always tried to make things easy for me.

A word of gratitude goes to my family members whose love; affection and understanding have enabled me to complete this end with ease.

At the end, I thank to Almighty for giving me courage and strength to conduct this project report.

Tanpure Ganesh Prakash

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DR.BABASAHEB AMBEDKAR MARATHWADA
UNIVERSITY,AURANGABAD

Sagar B.C.A. College, Jalna

A Project Report On

Information Retrieval on the Internet

Submitted To

UNDER THE GUIDANCE OF

AJITKUMAR

Submitted by

NARWADE AMOL BHASKAR

M.LiB SY

Year 2022-23

Scanned with OKEN Scanner

Department of Master Of Library and Information Science

(M.Lib. SY)

CERTIFICATE

This is to certify that, the following student

Narwade Amol Bhaskar

Has successfully completed the summer internship project

Information Retrieval on the Internet

In the partial fulfillment of the requirement of Master Of Library and Information Science course asexpected by **Dr. Babasaheb Ambedkar Marathwada University, Aurangabad** for Academic Year **2022-23**.

External Examiner

Internal Examiner

Head
Department of Humanities
Sagar BCA College, Jalna.

Principal

N. D. NAJARDHANE

PRINCIPAL
Sagar BCA College
Devmurti, Tq. Dist. Jalna

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STUDENT DECLARATION

This is to declare that this Summer Training Project report on **"Information Retrieval on the Internet"** is a record of genuine work done by me under the guidance of **AJITKUMAR** in the partial fulfillment to the requirement for Master Of Library and Information Science I declare that this Summer Training project report is original and not submitted to anyother university before

Signature of the Student:

Student's Name: Narwade Amol Bhaskar

PRN No. 2021015200582465

Exam Seat No. CMLD401235

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ACKNOWLEDGEMENT

While conducting this report, I got support in many ways from many people .First I am deeply grateful to my project guide, **AJITKUMAR** who helped me with full devotion and always supported me earnestly whenever it was needed. Without his guidance, mental &moral support and academic inputs this report was not possible.

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My friends have been biggest support for me at every juncture of life. They manifested their great interest in my research work also and always tried to make thingseasy for me.

A word of gratitude goes to my family members whose love; affection and understanding have enabled me to complete this end with ease.

At the end, I thank to Almighty for giving me courage and strength to conduct this project report.

(NARWADE AMOL)

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Information Retrieval on the Internet

Outline

1. Introduction, 1-1 Search Engines, 1-2 Search Engine History, 1-3 Search Engine Features and Services, 1-4 Search Engine Architectures
2. Web Crawling, 2-1 Robots Exclusion Protocol, 2-2 Robots Meta Tag, 2-3 Multi-Threaded Spidering , 2-4 Focused Spidering, 2-5 Keeping Spidered Pages Up-to-Date
3. The Information Retrieval System, 3-1 Preprocessing the Document Collection, 3-2 Information Retrieval Models, 3-2-1 The Boolean Model, 3-2-2 The Vector Space Model, 3-2-3 Latent Semantic Indexing, 3-2-4 The Probabilistic Model, 3-4 Relevance Feedback
4. Evaluation of Information Retrieval Systems, 4-1 Precision and Recall, 4-2 F-measure and E-measure, 4-3 Mean Average Precision, 4-4 Novelty Ratio and Coverage Ratio
5. Practical Considerations, 5-1 Efficient Indexing, 5-2 Examples of Information Retrieval Systems, 5-2-1 SMART, 5-2-2 Lucene, 5-2-3 Lemur, 5-2-4 OKAPI, 5-3 Example of Large-Scale Search Engine Architecture: Google, 5-4 Page Ranking Algorithms, 5-4-1 Hubs and Authorities, 5-4-2 Google's PageRank, 5-5 Commercial Aspects of Search Engines: Sponsored Links
6. The Invisible Web, 6-1 Searchable Databases, 6-2 Excluded Pages
7. Other Types of Information Retrieval Systems, 7-1 Multimedia Information Retrieval, 7-2 Digital Libraries, 7-3 Distributed Information Retrieval Systems
8. Conclusion and Future Directions, 8-1 Natural Language Queries, 8-2 The Semantic Web and Use of Meta-Data, 8-3 Visualization and Categorization of Results
9. Glossary, Bibliography

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Abstract

The main components of a search engine are the Web crawler which has the task of collecting webpages and the Information Retrieval system which has the task of retrieving text documents that answer a user query. In this chapter we present approached to Web crawling, Information Retrieval models, and methods used to evaluate the retrieval performance. Practical considerations include information about existing IR systems and a detailed example of a large-scale search engine (Google), including the idea of ranking webpages by their importance (the Hubs an Authorities algorithm, and Google's PageRank algorithm). Then we discuss the Invisible Web, the part of the Web that is not indexed by search engines. We briefly present other types of IR systems: digital libraries, multimedia retrieval systems (music, video, etc.), and distributed IR systems. We conclude with a discussion of the Semantic Web and future trends in visualizing search results and inputting queries in natural language.

INTRODUCTION

There is a huge quantity of text, audio, video, and other documents available on the Internet, on about any subject. Users need to be able to find relevant information to satisfy their particular information needs. There are two ways of searching for information: to use a search engines or to browse directories organized by categories (such as Yahoo Directories). There is still a large part of the Internet that is not accessible (for example private databases and intranets).

Information retrieval (IR) is the task of representing, storing, organizing, and offering access to information items. IR is different from data retrieval, which is about finding precise data in databases with a given structure. In IR systems, the information is not structured, it is contained in free form in text (webpages or other documents) or in multimedia content. The first IR systems implemented in 1970's were designed to work with small collections of text (for example legal documents). Some of these techniques are now used in search engines.

In this chapter we describe information retrieval techniques, focusing on the challenges faced by search engines. One particular challenge is the large scale, given by the huge number of webpages available on the Internet (for example, about 8 billion webpages were indexed by Google in 2005). Another challenge is inherent to any information retrieval system that deals with text: the ambiguity of the natural language (English or other languages) that makes it difficult to have perfect matches between documents and user queries.

The organization of this chapter is as follows. We briefly mention the search engines history, features, and services. We present the generic architecture of a search engine. We discuss its Web crawling component, which has the task to collect webpages to be indexed. Then we focus on the Information Retrieval component which has the task of retrieving documents (mainly text documents) that answer a user query. We present current methods used to evaluate the performance of the Information Retrieval component. Practical considerations include information about existing IR systems and a detailed example of a large-scale search engine (Google); we present methods for ranking webpages by their importance (the Hubs an Authorities algorithm and Google's PageRank algorithm). In another section, we discuss the Invisible Web, the part of the Web that is not indexed by search engines. We briefly present other types of IR systems: digital libraries, multimedia IR systems, and distributed IR systems. We conclude with a discussion of the Semantic Web and other future trends.

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DR.BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,AURANGABAD

Sagar B.C.A. College, Jalna

A Project Report On

Information Retrieval on the Internet

Submitted To

UNDER THE GUIDANCE OF

AJITKUMAR

Submitted by

BORADE SATISH SAHEBRAO

M.LiB SY

Year 2022-23

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Department of Master Of Library and Information Science

(M.Lib. SY)

CERTIFICATE

This is to certify that, the following student

Borade Satish Sahebrao

Has successfully completed the summer internship project

Information Retrieval on the Internet

In the partial fulfillment of the requirement of Master Of Library and Information Science course asexpected by **Dr. Babasaheb Ambedkar Marathwada University, Aurangabad** for Academic Year **2022-23**.

External Examiner

Internal Examiner

Head
Department of Humanities
Sagar BCA College, Jalna.

Principal

N. D. NAJARDHANE

PRINCIPAL
Sagar BCA College
Devmurti, Tq. Dist. Jalna

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STUDENT DECLARATION

This is to declare that this Summer Training Project report on **"Information Retrieval on the Internet"** is a record of genuine work done by me under the guidance of **AJITKUMAR** in the partial fulfillment to the requirement for Master Of Library and Information Science I declare that this Summer Training project report is original and not submitted to anyother university before

Signature of the Student:

Student's Name: Borade Satish Sahebrao

PRN No. 2021015200526844

Exam Seat No. CMLD401214

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ACKNOWLEDGEMENT

While conducting this report, I got support in many ways from many people .First I am deeply grateful to my project guide, **AJITKUMAR** who helped me with full devotion and always supported me earnestly whenever it was needed. Without his guidance, mental &moral support and academic inputs this report was not possible.

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A word of gratitude goes to my family members whose love; affection and understanding have enabled me to complete this end with ease.

At the end, I thank to Almighty for giving me courage and strength to conduct this project report.

(BORADE SATISH)

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Information Retrieval on the Internet

Outline

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9. Glossary, Bibliography

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Sagar College of Management
CODE 354
JALNA

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD

Sagar College, Devmurti, Jalna

A Project Report On

E-Library Management System

Submitted To

UNDER THE GUIDANCE OF

DR. MAHAJAN V.V

Submitted By

Nade Pooja Gajanan

M.Lib SY

Year 2022-23

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Department of Master of Library Science

(M.Lib.)

CERTIFICATE

This is to certify that, the following student

Nade Pooja Gajanan

Has successfully completed the summer intership project

E-Library Management System

In the Partial fulfillment of the requirement of Master of Library Science (M.Lib.) course as expected by **Dr.Babasaheb Ambedkar Marathwada University, Aurangabad** for Academic Year - 2022-23

Nade

Student

Internal Examiner

Principal

(Dr.Mahajan V.V.)

PRINCIPAL
Sagar BCA College
Devmurti, Tq. Dist. Jalna

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STUDENT DECLARATION

This is so declare that this Summer Training Project report on **"E-Library Management System"** is a record of genuine work done by me under the guidance of **Dr. Mahajan V.V** in the partial fulfillment to the requirement for **Master of Library Science**

I declare that this Summer Training project report is original and not submitted to any other university before.

Signature of the Student:

Student's Name : **Nade Pooja Gajanan**

PRN No. **2021015200575651**

Exam Seat No. **CMLD401234**

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ACKNOWLEDGEMENT

While conducting this report, I got support in many ways from many people. First I am deeply grateful to my project guide, Dr. Mahajan V.V who helped me with full devotion and always supported me earnestly whenever it was needed. Without his guidance, mental & moral support and academic inputs this report was not possible.

This Training report could never have seen the light of the day without his co-operation of those Clients who participated in this. I am thankful to all of them for giving me their valuable time.

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A word of gratitude goes to my family members whose love; affection and understanding have anabled me to complete this end with ease.

At the end, I thank to Almighty for giving me courage and strenigth to conduct this project report.

(NADE POOJA GAJANAN)

Nade

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DR.BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,AURANGABAD

Sagar B.C.A. College, Jalna

A Project Report On

Information Retrieval on the Internet

Submitted To

UNDER THE GUIDANCE OF

AJITKUMAR

Submitted by

KHARAT GANESH SUDAM

M.LiB SY

Year 2022-23

Scanned with OKEN Scanner

Department of Master Of Library and Information Science

(M.Lib. SY)

CERTIFICATE

This is to certify that, the following student

Kharat Ganesh Sudam

Has successfully completed the summer internship project

Information Retrieval on the Internet

In the partial fulfillment of the requirement of Master Of Library and Information Science course asexpected by **Dr. Babasaheb Ambedkar Marathwada University, Aurangabad** for Academic Year **2022-23**.

External Examiner

Internal Examiner

Head
Department of Humanities
Sagar BCA College, Jalna.

Principal

N. D. NAJARDHANE

PRINCIPAL
Sagar BCA College
Devmurti, Tq. Dist. Jalna

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STUDENT DECLARATION

This is to declare that this Summer Training Project report on **"Information Retrieval on the Internet"** is a record of genuine work done by me under the guidance of **AJITKUMAR** in the partial fulfillment to the requirement for Master Of Library and Information Science I declare that this Summer Training project report is original and not submitted to anyother university before

G S. Kharat

Signature of the Student:

Student's Name: Kharat Ganesh Sudam

PRN No. 2021015200526883

Exam Seat No. CMLD401230

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ACKNOWLEDGEMENT

While conducting this report, I got support in many ways from many people .First I am deeply grateful to my project guide, **AJITKUMAR** who helped me with full devotion and always supported me earnestly whenever it was needed. Without his guidance, mental &moral support and academic inputs this report was not possible.

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At the end, I thank to Almighty for giving me courage and strength to conduct this project report.

(KHARAT GANESH)

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Information Retrieval on the Internet

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1. Introduction, 1-1 Search Engines, 1-2 Search Engine History, 1-3 Search Engine Features and Services, 1-4 Search Engine Architectures
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9. Glossary, Bibliography

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DR.BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,AURANGABAD

Sagar B.C.A. College, Jalna

A Project Report On

Management of Intellectual Property Policy, Procedures and Forms

Submitted To

UNDER THE GUIDANCE OF

AJITKUMAR

Submitted by

WAKOKE MANISH SITARAM
M.LiB SY IV SEM

Year 2022-23

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Department of Master Of Library and Information Science

(M.Lib. SY)

CERTIFICATE

This is to certify that, the following student

Wakode Manish Sitaram

Has successfully completed the summer internship project

Management of Intellectual Property Policy, Procedures and Forms

In the partial fulfillment of the requirement of Master Of Library and Information Science course asexpected by **Dr. Babasaheb Ambedkar Marathwada University, Aurangabad** for Academic Year **2022-23**

xternal Examiner

Internal Examiner

Head
Department of Humanities
Sagar BCA College, Jalna.

Principal
N. D. NAJARDHANE

PRINCIPAL
Sagar BCA College
Devmurti, Tq. Dist. Jalna

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STUDENT DECLARATION

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Signature of the Student:

Student's Name: Wakode Manish Sitaram

PRN No. 2021015200520832

Exam Seat No. CMLD401246

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ACKNOWLEDGEMENT

While conducting this report, I got support in many ways from many people .First I am deeply grateful to my project guide, **AJITKUMAR** who helped me with full devotion and always supported me earnestly whenever it was needed. Without his guidance, mental &moral support and academic inputs this report was not possible.

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Sagar B.C.A. College, Jalna

A Project Report On

Management of Intellectual Property Policy, Procedures and Forms

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UNDER THE GUIDANCE OF

AJITKUMAR

Submitted by

RATHOD KAILAS SANJAY
M.LiB SY IV SEM

Year 2022-23

Scanned with OKEN Scanner

Department of Master Of Library and Information Science

(M.Lib. SY)

CERTIFICATE

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Rathod Kailas Sanjay

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External Examiner

Internal Examiner

Head
Department of Humanities
Sagar BCA College, Jalna.

Principal

N. D. NAJARDHANE

PRINCIPAL
Sagar BCA College
Devmurti, Tq. Dist. Jalna

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Signature of the Student: K.S Rathod

Student's Name: Rathod Kailas Sanjay

PRN No. 2021015200607256

Exam Seat No. CMLD401238

Scanned with OKEN Scanner

ACKNOWLEDGEMENT

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K. Rathod

(RATHOD KAILAS)

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Policy, Procedures and Forms

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DR.BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,AURANGABAD

Sagar B.C.A. College, Jalna

A Project Report On

Information Retrieval on the Internet

Submitted To

UNDER THE GUIDANCE OF

AJITKUMAR

Submitted by

BORADE SATISH SAHEBRAO

M.LiB SY

Year 2022-23

Scanned with OKEN Scanner

Department of Master Of Library and Information Science

(M.Lib. SY)

CERTIFICATE

This is to certify that, the following student

Borade Satish Sahebrao

Has successfully completed the summer internship project

Information Retrieval on the Internet

In the partial fulfillment of the requirement of Master Of Library and Information Science course asexpected by **Dr. Babasaheb Ambedkar Marathwada University, Aurangabad** for Academic Year **2022-23**.

External Examiner

Internal Examiner

Head
Department of Humanities
Sagar BCA College, Jalna.

Principal

N. D. NAJARDHANE

PRINCIPAL
Sagar BCA College
Devmurti, Tq. Dist. Jalna

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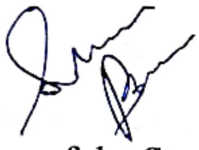

Signature of the Student:

Student's Name: Borade Satish Sahebrao

PRN No. 2021015200526844

Exam Seat No. CMLD401214

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While conducting this report, I got support in many ways from many people .First I am deeply grateful to my project guide, **AJITKUMAR** who helped me with full devotion and always supported me earnestly whenever it was needed. Without his guidance, mental &moral support and academic inputs this report was not possible.

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(BORADE SATISH)

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Information Retrieval on the Internet

Outline

1. Introduction, 1-1 Search Engines, 1-2 Search Engine History, 1-3 Search Engine Features and Services, 1-4 Search Engine Architectures
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5. Practical Considerations, 5-1 Efficient Indexing, 5-2 Examples of Information Retrieval Systems, 5-2-1 SMART, 5-2-2 Lucene, 5-2-3 Lemur, 5-2-4 OKAPI, 5-3 Example of Large-Scale Search Engine Architecture: Google, 5-4 Page Ranking Algorithms, 5-4-1 Hubs and Authorities, 5-4-2 Google's PageRank, 5-5 Commercial Aspects of Search Engines: Sponsored Links
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DR.BABASAHEB AMBEDKAR MARATHWADA
UNIVERSITY,AURANGABAD

Sagar B.C.A. College, Jalna

A Project Report On

Information Retrieval on the Internet

Submitted To

UNDER THE GUIDANCE OF

AJITKUMAR

Submitted by

NARWADE AMOL BHASKAR

M.LiB SY

Year 2022-23

Scanned with OKEN Scanner

Department of Master Of Library and Information Science

(M.Lib. SY)

CERTIFICATE

This is to certify that, the following student

Narwade Amol Bhaskar

Has successfully completed the summer internship project

Information Retrieval on the Internet

In the partial fulfillment of the requirement of Master Of Library and Information Science course asexpected by **Dr. Babasaheb Ambedkar Marathwada University, Aurangabad** for Academic Year **2022-23**.

External Examiner

Internal Examiner

Head
Department of Humanities
Sagar BCA College, Jalna.

Principal

N. D. NAJARDHANE

PRINCIPAL
Sagar BCA College
Devmurti, Tq. Dist. Jalna

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Signature of the Student:

Student's Name: Narwade Amol Bhaskar

PRN No. 2021015200582465

Exam Seat No. CMLD401235

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ACKNOWLEDGEMENT

While conducting this report, I got support in many ways from many people .First I am deeply grateful to my project guide, **AJITKUMAR** who helped me with full devotion and always supported me earnestly whenever it was needed. Without his guidance, mental &moral support and academic inputs this report was not possible.

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(NARWADE AMOL)

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Abstract

The main components of a search engine are the Web crawler which has the task of collecting webpages and the Information Retrieval system which has the task of retrieving text documents that answer a user query. In this chapter we present approached to Web crawling, Information Retrieval models, and methods used to evaluate the retrieval performance. Practical considerations include information about existing IR systems and a detailed example of a large-scale search engine (Google), including the idea of ranking webpages by their importance (the Hubs an Authorities algorithm, and Google's PageRank algorithm). Then we discuss the Invisible Web, the part of the Web that is not indexed by search engines. We briefly present other types of IR systems: digital libraries, multimedia retrieval systems (music, video, etc.), and distributed IR systems. We conclude with a discussion of the Semantic Web and future trends in visualizing search results and inputting queries in natural language.

INTRODUCTION

There is a huge quantity of text, audio, video, and other documents available on the Internet, on about any subject. Users need to be able to find relevant information to satisfy their particular information needs. There are two ways of searching for information: to use a search engines or to browse directories organized by categories (such as Yahoo Directories). There is still a large part of the Internet that is not accessible (for example private databases and intranets).

Information retrieval (IR) is the task of representing, storing, organizing, and offering access to information items. IR is different from data retrieval, which is about finding precise data in databases with a given structure. In IR systems, the information is not structured, it is contained in free form in text (webpages or other documents) or in multimedia content. The first IR systems implemented in 1970's were designed to work with small collections of text (for example legal documents). Some of these techniques are now used in search engines.

In this chapter we describe information retrieval techniques, focusing on the challenges faced by search engines. One particular challenge is the large scale, given by the huge number of webpages available on the Internet (for example, about 8 billion webpages were indexed by Google in 2005). Another challenge is inherent to any information retrieval system that deals with text: the ambiguity of the natural language (English or other languages) that makes it difficult to have perfect matches between documents and user queries.

The organization of this chapter is as follows. We briefly mention the search engines history, features, and services. We present the generic architecture of a search engine. We discuss its Web crawling component, which has the task to collect webpages to be indexed. Then we focus on the Information Retrieval component which has the task of retrieving documents (mainly text documents) that answer a user query. We present current methods used to evaluate the performance of the Information Retrieval component. Practical considerations include information about existing IR systems and a detailed example of a large-scale search engine (Google); we present methods for ranking webpages by their importance (the Hubs an Authorities algorithm and Google's PageRank algorithm). In another section, we discuss the Invisible Web, the part of the Web that is not indexed by search engines. We briefly present other types of IR systems: digital libraries, multimedia IR systems, and distributed IR systems. We conclude with a discussion of the Semantic Web and other future trends.

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R.BABASAHEB AMBEDKAR MARATHWADA
UNIVERSITY,AURANGABAD

Sagar B.C.A. College, Jalna

A Project Report On

Information Retrieval on the Internet

Submitted To

UNDER THE GUIDANCE OF

AJITKUMAR

Submitted by

KHARAT GANESH SUDAM

M.LiB SY

Year 2022-23

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Department of Master Of Library and Information Science

(M.Lib. SY)

CERTIFICATE

This is to certify that, the following student

Kharat Ganesh Sudam

Has successfully completed the summer internship project

Information Retrieval on the Internet

In the partial fulfillment of the requirement of Master Of Library and Information Science course asexpected by **Dr. Babasaheb Ambedkar Marathwada University, Aurangabad** for Academic Year **2022-23.**

External Examiner

Internal Examiner

Head
Department of Humanities
Sagar BCA College, Jalna.

Principal

N. D. NAJARDHANE
PRINCIPAL
Sagar BCA College
Devmurti, Tq. Dist. Jalna

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STUDENT DECLARATION

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G S. Kharat

Signature of the Student:

Student's Name: Kharat Ganesh Sudam

PRN No. 2021015200526883

Exam Seat No. CMLD401230

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ACKNOWLEDGEMENT

While conducting this report, I got support in many ways from many people .First I am deeply grateful to my project guide, AJITKUMAR who helped me with full devotion and always supported me earnestly whenever it was needed. Without his guidance, mental &moral support and academic inputs this report was not possible.

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(KHARAT GANESH)

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DR.BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,AURANGABAD

Sagar B.C.A. College, Jalna

A Project Report On

Management of Intellectual Property Policy, Procedures and Forms

Submitted To

UNDER THE GUIDANCE OF

AJITKUMAR

Submitted by

RATHOD KAILAS SANJAY

M.LiB SY IV SEM

Year 2022-23

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Department of Master Of Library and Information Science

(M.Lib. SY)

CERTIFICATE

This is to certify that, the following student

Rathod Kailas Sanjay

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Management of Intellectual Property Policy, Procedures and Forms

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External Examiner

Internal Examiner

Head
Department of Humanities
Sagar BCA College, Jalna.

Principal

N. D. NAJARDHANE

PRINCIPAL
Sagar BCA College
Devmurti, Tq. Dist. Jalna

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Signature of the Student: K.S Rathod

Student's Name: Rathod Kailas Sanjay

PRN No. 2021015200607256

Exam Seat No. CMLD401238

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ACKNOWLEDGEMENT

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K. Rathod

(RATHOD KAILAS)

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KHADE ANIL KUNDLIK
M.LiB SY IV SEM

Year 2022-23

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Department of Master Of Library and Information Science

(M.Lib. SY)

CERTIFICATE

This is to certify that, the following student

Khade Anil Kundlik

Has successfully completed the summer internship project

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Internal Examiner
Head
Department of Humanities
Sagar BCA College, Jalna.

Principal
N. D. NAJARDHANE

PRINCIPAL
Sagar BCA College
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Signature of the Student:

Student's Name: Khade Anil Kundlik

PRN No. 2021015200534944

Exam Seat No. CMLD401227

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ACKNOWLEDGEMENT

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(KHADE ANIL)

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DR.BABASAHEB AMBEDKAR MARATHWADA
UNIVERSITY,AURANGABAD

Sagar B.C.A. College, Jalna

A Project Report On

Management of Intellectual Property Policy, Procedures and Forms

Submitted To

UNDER THE GUIDANCE OF

AJITKUMAR

Submitted by

KHADE ANIL KUNDLIK
M.LiB SY IV SEM

Year 2022-23

Scanned with OKEN Scanner

Department of Master Of Library and Information Science

(M.Lib. SY)

CERTIFICATE

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Khade Anil Kundlik

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Internal Examiner

Head
Department of Humanities
Sagar BCA College, Jalna.

Principal

N. D. NAJARDHANE

PRINCIPAL
Sagar BCA College
Devmurti, Tq. Dist. Jalna

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PRN No. 2021015200534944

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Policy, Procedures and Forms

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SAGAR COLLEGE, DEVMURTI, JALNA

A Project Report on

Marketing Of Information Product In University Libraries In Maharashtra Management And Services

Submitted to

Under the guidance of

Prof. Shri. Amit Kumar

Submitted By

Kamble Bhujang Bhimrao

Masters of Library and Information Science (M.L.I.Sc.)

Year 2022-23

Seat No. CMLD401224

Scanned with OKEN Scanner

Department of Masters of Library and Information Science (M.L.I.Sc.)

CERTIFICATE

This is to certify that, the following student

Kamble Bhujang Bhimrao

Has successfully completed the summer intership project

Marketing Of Information Product In University Libraries In Maharashtra Management And Services

In the partial fulfillment of the requirement of Masters of Library and Information Science (M.L.I.Sc.) course as expected by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for Academic Year - 2022-2023.

PRINCIPAL
Sagar College, Jalna

Student | Internal Examiner/ Guide | Principal

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ACKNOWLEDGEMENT

While conducting this report, I got support in many ways from many people. First I am deeply grateful to my project guide, Prof. Shri. Amit Kumar who helped me with full devotion and always supported me earnestly whenever it was needed. Without his guidance, mental & moral support and academic inputs this report was not possible.

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Kamble Bhujang Bhimrao

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MARKETING OF INFORMATION PRODUCT IN UNIVERSITY LIBRARIES IN MAHARASHTRA : MANAGEMENT AND SERVICES

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2.4.6.5. Jaykar Library University of Pune.

2.4.6.6. Smt. Nathibai Damodar Thackersey Women University Library Bombay.

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