A Project/Dissertation Review-1 Report

on

BOOKSHUB- A FREE E-LIBRARY

Submitted in partial fulfillment of the requirement for the award of the degree

of

BACHELOR OF ENGINEERING IN COMPUTER SCIENCE AND ENGINEERING



(Established under Galgotias University Uttar Pradesh Act No. 14 of 2011)

Under The Supervision
of Name of
Supervisor: MR
BHIBAS KUMAR
RANA
Designation
ASSISSTANT
PROFESSOR

Submitted By

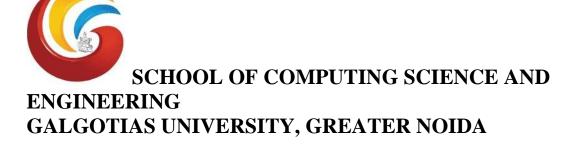
ISHITA SHARMA

19SCSE1010504

HARSHIT VATS

19SCSE1140014

SCHOOL OF COMPUTING SCIENCE AND ENGINEERING DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING GALGOTIAS UNIVERSITY, GREATER NOIDA



CANDIDATE'S DECLARATION

I/We hereby certify that the work which is being presented in the thesis/project/dissertation, entitled "BOOKSHUB-A FREE E-LIBRARY" in partial fulfillment of the requirements for the award of the bachelors of engineering in computer science and engineering submitted in the School of Computing Science and Engineering of Galgotias University, Greater Noida, is an original work carried out during the period of september, 2021 to December,2021, under the supervision of bibhas rana,assistant professor Department of Computer Science and Engineering, of School of Computing Science and Engineering, Galgotias University, Greater Noida

The matter presented in the thesis has not been submitted by us for the award of any other degree of this or any other places.

ISHITA SHARMA

19SCSE1010504

HARSHIT VATS

19SCSE1140014

This is to certify that the above statement made by the candidates is correct to the best of my knowledge.

CERTIFICATE

The	Final	Thesis/Project	t/ Dissertation	Viva-Voce	examination	of	ISHI	ΊA
SHAR	MA(19S	CSE1010504)	and HARSHIT	VATS(19SCSE	1140014) has	been	held	on
		and his/	her work is reco	mmended for the	e award of Ba	ACHEI	ORS	OF
ENGI	NEERING	G IN COMPUT	TER SCIENCE AI	ND ENGINEERI	NG .			
~					G .	4.0		
Signat	ture of Ex	xaminer(s)			Signature o	f Supe	rvisor	(s)

Signature of Dean

Date: November, 2013

Signature of Project Coordinator

Place: Greater Noida

ABSTRACT

Information Communication Technology has changed the face of library function. The computerized system for handling the activities of e-library provides a comprehensive way of gaining knowledge with less physical labour and reduces complexity of the manual system.

Building digital library application and effectively adapting them to new emerging trends requires to develop a platform that offers standard and powerful building blocks to support application developers.

So,This project aims to design and implement a computerized recommendation hub of b ooks, courses, previous year papers for government examinations and youtube playlists for video lectures.

This project is a website with an updation of chatbot in it which will help the users to find the correct source of learning to acquire knowledge in different fields.

This project has several advantages of using e-resources such as case of – usability, affordability and accessibility. They can increase speed and case to access and the amount of information available.

With this project, we concluded an one- step ahead website for different purposes of learning which will make things easier as Previously proposed, e-libraries provides a good source of books but do not recommend an appropriate resource for acquiring jobs and qualifying examinations.

KEYWORDS

- E-library
- Resources
- Recommendation
- Accessibility

LIST OF FIGURES

TABLE NO.	TABLE NAME	PAGE NO.
1	Use case diagram	6
2	Data flow diagram	7
3	ERD diagram	7
4	Class diagram	8
5	Frontend diagram	11
6	Frontend final look	12

•

TABLE OF CONTENTS

TABLE	PAGE NO.
Candidate declaration	I
Certificate	II
Abstract	III
List of figures	IV
Chapter 1 :- Introduction	1
1.2- formulation of problem	2
1.2.1- tools and technology used	3
Chapter 2:- literature survey	4-5
Chapter 3:- Design	6-7-8
Chapter 4:-functionality and working	9-10-11-12
of project	
Chapter 5:-conclusion	13
Chapter 6:- References	14

INTRODUCTION

Majority of studies, are related to Adoption, Perception, Attitude and Satisfaction of user towards E-Library services.

It is possible to archiving and accessing knowledge in the digitized form using elibrary but it does not give a particular recommendation that could help in pertaining jobs and examinations. So, it doesn't give a less knowledgable persona perfect way to gain and execute an appropriate instance.

In this competitive world, Everybody wants to be independent and succeed in life. Jobs are a major source

of income that would lead to a valuable lifestyle. There are many categories of jobs in india.

For getting a desirable job, a person need to have appropriate knowledge of resources to qualify the examinations.

But majority of the people do not get enough knowledge of the resources and remain confused.

. REASONS:-

- They do not know how to set the path and start learning.
- Poor recommendation of books leading to lack of interest.
- Not knowing about courses or video lectures for the better understanding about the exams.
- Time wastage in searching for a proper resource.

PROBLEM FORMULATION

Due to

spread of information, importance of information retrieval is very high. Therefore, it is very difficult to search for a particular thing.

For competitive exams ebook are the best because they explain the concept with audio, video and animation so it's become very easy to understand in this way.

When you buy book at store for competitive exams at time they are very expensive which everyone can't afford so ebook are best for competitive exams because once you download the book you can easily get the content of book print at cheapest rate also.

Previously proposed, e-libraries provides a good source of books but do not recommend an appropriate resource for acquiring jobs and qualifying examinations.

Therefore, we came up with an idea of preparing a website with a updation of chatbot.

FEATURES OF THIS PROPOSED WEBSITE:-

- This website includes the recommendation of books for every category of exams for jobs in india.
- The recommendation will be categorized in three levels i.e basic, medium and advanced.
- This will also include recommendation of courses and youtube playlists.
- Examination paper of previous years of different exams.
- Exams would also be categorized as government exam, after 12th entrances, after completion of degrees etc.
- It will include a chatbot which will recommend books according to the subjects provided.

MODULES:-

CATEGORIES OF BOOKS

- COMPETITIVE
- ENTRANCES
- PROGRAMMING
- GENERAL KNOWLEDGE
- GENERAL BOOKS (SCIENCE, COMMERCE ETC

LEVEL

- BASIC
- MEDIUM
- ADVANCED

LANGUAGE

- ENGLISH
- HINDI

PREVIOUS YEAR'S QUESTION PAPERS

COURSES RECOMMENDED

YOUTUBE SUGGESTIONS(VIDEO LECTURES)

REQUIRED TOOLS AND TECHNOLOGY

HARDWARE

- Processor- i3
- Hard disk- 4 Gb
- Memory 2 Gb ram
- Internet connection
- Server

SOFTWARE

- HTML- framework
- CSS and bootstrap- styling
- Java script/python- backend
- Mysql- database
- Scratch chatbot
- Flask- chatbot

LITERATURE SURVEY

Before the advent of computer in modern age there were different methods of recommendation of learning resources like books, courses etc.

People usually contacts an experienced person or a person in the same field for the resources which is a complex process because the level of acquiring and thinking differs individually.

research named 'Digital/ e-library resource' Α paper by Vidya Bhaurao Thillar and Shyamla Chandrakant Yadav published in October 2016 proposed electronic library which is large and repositories of digital a collection of diverse objects and information, which can accessed by a large number of electronic be geographically, distributed users.

The major function of digital libraries is to facilitate systematic and efficient access to and sharing of information of matters, considered important by the users.

This research faces many challenges at every level of their selection, acquisition, preservation, maintenance and management.

This do not give the solution to all libraries financial, space, access and ser vice problem.

'Design and implementation of an elibrary search system' by abbas fadhil ali al- juboori proposed a system whi ch has some methods of searches and it is convenient for the researchers to find their required information.

Digital library has become an integral part of academic research activities. It provides academic researchers with electronic access to national and international scholarly journals as well.

The database of the system contains only books names and theses title wh organisations. ich provides the advantage to only academic This is setback of this major a paper. searching This mainly provides mechanism person need SO a hava an information to use this plan appropriately.

A project named E-Library Resources and Services: Improvement and Innovation of Access and Retrieval for Effective Research Activities in University 2018 states that improved access to e-library resources enhances research E-

libraries in Kogi State Nigeria Wisdom by O. Anyim published in the year activities, promotes efficient delivery of information economically to all users; encourages cooperative efforts in research resources, computing, and communication networks; strengthens communication and collaboration between and among academic researchers and take leadership role in the generation and dissemination of knowledge.

The setback is that the e-resources and services have not been fully utilized as a result of access problem and retrieval difficulties which required improvement and innovation in other to sustain adequate patronage.

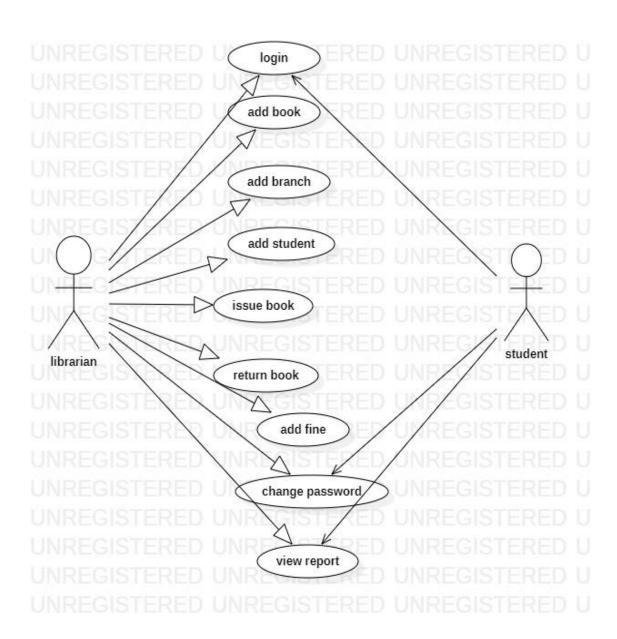
Asad

Khan (2016) investigated the factors that influence the adoption of Digital Library students. among research The findings revealed that Interface characteristics influence cognitive response which predict student's intention of using digital library. Whereas navigation, individual differences and system characteristics significantly affected the ease of use. Usefulness is directly affected by system characteristics and system quality. Finally, it is found that usefulness have h ighest effects on digital library usage intention.

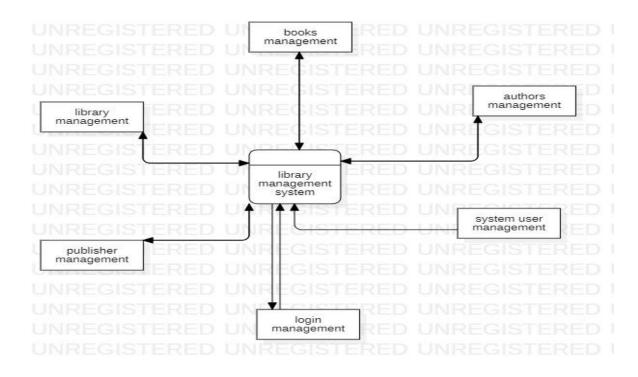
Ming-der et al (2012) research scholar are frequent users of digital resources of library in this regard this study investigated usage pattern, search behavior of graduate students and perception towards digital resources. Study reveals that students are using digital resources during thesis writing and science and technology student consider it as the most important for their research comp other disciplines. are to students alter services Less number of using metasearch and are to collect update information. But this research did not conclude the advantages of the books for job purposes.

DESIGN

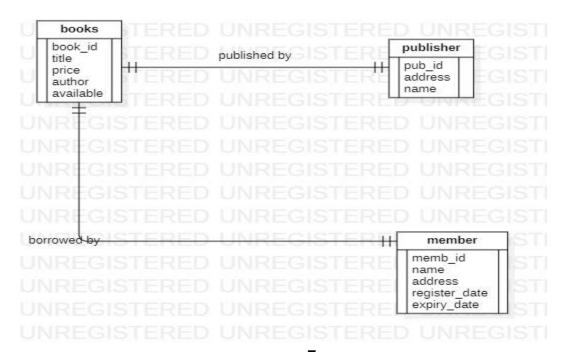
USE CASE DIAGRAM



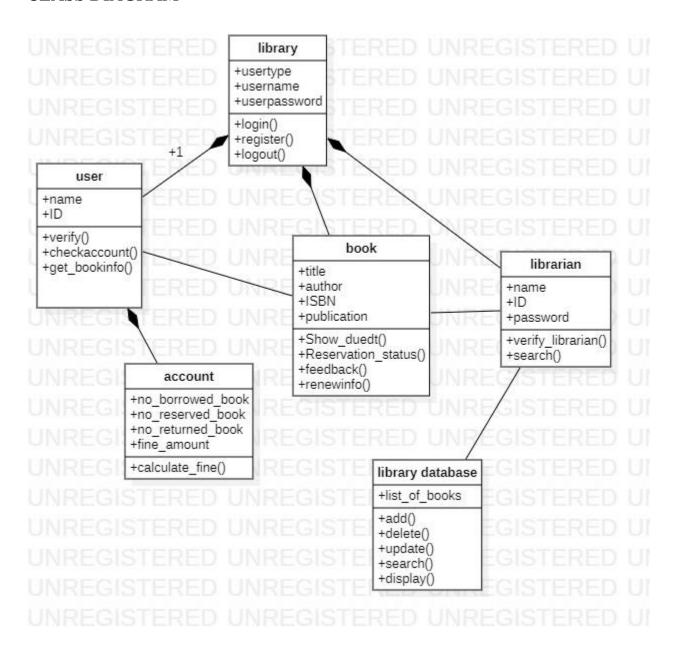
DATA FLOW DIAGRAM



ERD DIAGRAM



CLASS DIAGRAM



IMPLEMENTATION

This project is implemented by the reference WORK PLAN which is divided into three phases.

A website needs proper stimulation of data and proper interpretation which is done by different parts i.e front-end,back-end and database and these phases organizes these important part accordingly.

A. 1st PHASE

FRONTEND

When it comes to web Designing it's easier and important to focus on one task at a time.

So, First we will create a temporary portfolio of our website on a notebook and then according to it we will start working on it using the HTML and create the basic structure of our website.

We will add styling in the website using CSS and BOOTSTRAP to make the website responsive.

Then we will focus on the most important part of website such as media photos and videos. The CSS will ensure that our website is super simple and it works for most responsive website.

The last step is typography. While pixels are fine when our website should have a fixed width, a responsive website should have a responsive font. Your site font should be related to its parent container width, so it can adapt to the screen of the client and be easily readable on mobile devices.

Important details frontend will have

- Addition of responsive meta tags in your HTML document
- Applying media queries to your layout
- images and embedded videos that are responsive
- Ensuring that typography will be easily readable on mobile devices

BACKEND

We will use **PYTHON language** for making backend of our website as this back end code will adds utility to everything to the front-end of the website. This is responsible for creating, maintaining, testing, and debugging the entire back end. This includes the core application logic, databases, data and application integration, API and other back end processes.

B. 2ND PHASE

DATABASE

Till now, we completed our first phase of making a website by building the front-end and back-end to make it responsive.

But without a database the website will not be in use for the people.

As Database, is a collection of data, or information, that is specially organized for rapid search and retrieval by a computer. Databases are structured to facilitate the storage, retrieval, modification, and deletion of data in conjunction with various data processing operations. For preparation of database, we will use **MYSQL**

First we will make the **ENTITY-RELATIONSHIP** diagram for our modules. Now, according to the diagram, we will make tables by using different mysql queries like create, delete, append etc. For recommendation of material our website need,

CONNECTION

Since, the front-end, back-end and database are built. Then, we will connect these three parts together for the working of the website as each of them works as combined effort for the working of a responsive website.

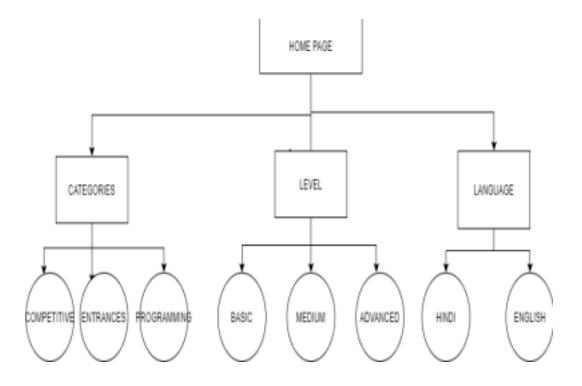
Usually the frontend (client) talks to the backend (server) using a protocol (likely HTTP) through an API that could be REST. The backend receives these calls and if it has to fetch information from a database it does so, usually calling the backing database through TCP (from mysql), fetching such data, working on it and then sending it back to the frontend.

C.THIRD PHASE

CHATBOT

After the two phases are complete. Then we will build a chatbot using scratch which will provide the information about the books on the basis of authors to make it easy for the customers to go through the whole website and work accordingly.

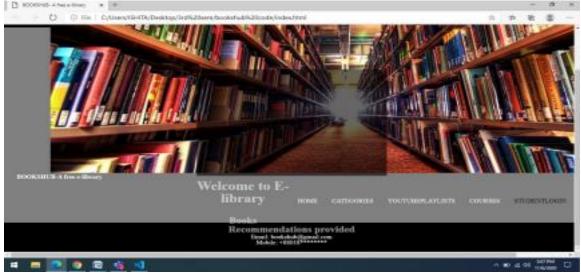
After building the chatbot, we will connect it to the website for further use.



GLIMPSE OF CODE:-<html> <head> <title> BOOKSHUB- A free e-library </title> <link rel="stylesheet" type="text/css" href="sty le.css"> <meta charset="utf-8"> <meta name="viewport" content="width=device width, initial-</pre> scale=1"> <style type="text/css"> nav { float: right; word-spacing: 30px; padding: 20px;

```
nav li
{
display: inline-block;
line-height: 80px;
}
</style>
</head>
<body>
<div class="wrapper">
<header>
<div class="logo">
<img src="C:\Users\ISHITA\Downloads\1.jp g">
<h1 style="color: white;">BOOKSHUB A free e-library</h1>
</div>
<nav>
<l
<a href="index.html">HOME</a >
<a href="books.html">CATEGOR IES</a>
<a href="student login.html" >YOUTUBEPLAYLISTS</a>
<a href="admin login.html">C OURSES</a>
<a href="student_login.html" ></a>STUDENTLOGIN
</nav>
</header>
```

Remaining code on github.



CONCLUSION

With this project, we concluded an one- step ahead website for different purposes of learning which will make things easier.

We also conclude the feasibility analysis of this project as follows:

At a present time with widely spread of information, importance of information retrieval is very high. Therefore, it is very difficult to search for a particular thing.

- For competitive exams ebook are the best because they explain the concept with audio, video and animation so it's become very easy to understand in this way.
- When you buy book at store for competitive exams at time they are very expensive which everyone can't afford so ebook are best for competitive exams because once you download the book you can easily get the content of book print at cheapest rate also.
- Previously proposed, e-libraries provides a good source of books but do not recommend an appropriate resource for acquiring jobs and qualifying examinations.

REFERENCES

A research paper named 'Digital/ e-library resource' by VidyaBhauraoThillar and ShyamlaChandrakant Yadav published in October 2016

E-Library Resources and Services: Improvement and Innovation of Access and Retrieval for Effective Research Activities in University E-libraries in Kogi State Nigeria Wisdom by a. O. Anyim publishedin the year 2018.

Research paper published by Asad Khanin 2016.

Research paper published by Ming-der et al in 2012.

Reitz, Joan M. (10 January 2013). Online Dictionary for Library and Information Science. Retrieved 29 November 2019.