**LIBRARY MANAGEMENT SYSTEM**

PROJECT REPORT

OF MINI PROJECT

**BACHELOR OF TECHNOLOGY**

**IN COMPUTER SCIENCE**

SUBMITTED BY

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**BBS COLLEGE OF ENGINEERING AND TECHNOLOGY**

**PHAPHAMAU PRAYAGRAJ**

**AFFILATED BY ABDUL KALAM TECHNICAL UNIVERSITY LUCKNOW**

**CERTIFICATE**

This is to certify that the mini project titled “**LIBRARY MANAGEMENT** **SYSTEM”** is a genuine work carried out by **Group [VISHAL MUNSHI, ROSHAN PATEL & AKASH YADAV]** a student of **BBS COLLEGE OF ENGINEERING & TECHNOLOGY,** in partial fulfillment of requirements for the award of the **BACHELOR IN COMPUTER SCIENCE**.

The project embodies the design and development of a website aimed at providing accurate and timely information regarding government job notifications, exam results, and related updates. The work has been carried out under Supervision and guidance of Assistant Professor of Computer Science and has not been submitted elsewhere for any other degree or diploma.

**Project guide/ Supervisor HEAD OF DEPARTMENT**

**MAYANK SHUKLA Prof. PRASHANT**

**SRIVASTAVA**

# AKNOWLEDGEMENT

I would like to express my heartfelt gratitude to everyone who has contributed to the successful completion of my mini-project titled **“LIBRARY MANAGEMENT SYSTEM.”**

First and foremost, I am deeply thankful to **Mr. MAYANK SHUKLA SIR** **Assistant Professor of Computer Science**, for their invaluable guidance, continuous support, and constructive feedback throughout the development of this project. Their expertise and encouragement have been instrumental in shaping the project to its current form.

I am also grateful to **Prof. Prashant Srivastava Sir, HOD of Computer Science** for providing me with the opportunity and resources to work on this project.

A special thanks to my friends and classmates for their support and collaboration during various stages of the project.

Lastly, I extend my sincere gratitude to my family for their unwavering support, patience, and motivation, which have been my strength throughout this journey.

This project has been a significant learning experience, and I am grateful for the opportunity to apply my knowledge and skills in developing a platform that aims to provide accurate and timely information about government job notifications and exam results.

**VISHAL MUNSHI**

**ROSHAN PATEL**

**AKASH YADAV**

**BACHELOR IN COMPUTER SCIENCE**

**BBS COLLEGE OF ENGINEERING AND TECHNOLOGY**

**ABSTRACT**

Library management system is a project which aims in developing a computerized system to maintain all the daily work of library. This project has many features which are generally not available in normal library management systems like facility of user login and a facility of admin login. It also has a facility of admin login through which the admin can monitor the whole system. It has also a facility where student after logging in their accounts can see list of books issued and its issue date and return date. Overall, this project of ours is being developed to help the students as well as staff of library to maintain the library in the best way possible and also reduce the human efforts.

A Library is a communal place so adds to the importance of community in our lives. A library offers us education, relaxation and access to all sorts of books, magazines, music and movies that we could never afford to buy. It is a safe place to meet friends, use the internet or get help with school assignments. It is a place where all walks of life may be present, including children, youth, and the aged. In an era where sustainability is becoming a necessity, a library is a provider. A library has a great importance of its own. For a person of average means, it is difficult to purchase more than one or two daily newspapers or monthly magazines but it is the keen desire of educated people to know all possible shades of opinion as expressed in different newspapers. Also, it is not possible to buy every book that you are interested to read. Hence library provides an effective alternate where you need to pay in a small number of membership fees and you can get to access to a variety of books, newspapers and magazines etc. You need to pay in a small number of membership fees and you can get to access to a variety of books, newspapers and magazines etc.

DECLARATION

I **VISHAL MUNSHI, ROSHAN PATEL & AKASH YADAV**  hereby declare that this project report titled **"Library Management System"** is the result of my own work and has been carried out under the supervision of MR. MAYANK SHUKLA. This report does not contain any material that has been submitted earlier for award of any degree to the best of my knowledge and belief.

**VISHAL MUNSHI**

**ROSHAN PATEL**

**AKASH YADAV**

**BTECH IN Computer Science**

**BBS COLLEGE OF ENGINEERING & TECHNOLOGY**

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**INTRODUCTION**

The project aims and objectives that will be achieved after completion of this project are discussed in this subchapter. The aims and objectives are as follows:

• Online book issue

• Request column for librarian for providing new books

• Student login page where student can find books issued by him/her and date of

return.

• A search column to search availability of books

Library Management System is an application which refers to library systems which are generally small or medium in size. It is used by librarian to manage the library using a computerized system where he/she can record various transactions like issue of books, return of books, addition of new books, addition of new students etc. Books and student maintenance modules are also included in this system which would keep track of the students using the library and also a detailed description about the books a library contains. With this computerized system there will be no loss of book record or member record which generally happens when a non-computerized system is used .All these modules are able to help librarian to manage the library with more convenience and in a more efficient way as compared to library systems which are not computerized.

OPERATION ENVIRONMENT

PROCESSOR: INTEL CORE PROCESSOR OR BETTER PERFORMANCE

OPERATING SYSTEM: WINDOWS VISTA, WINDOWS7, UBUNTU

MEMORY: 1GB RAM OR MORE

HARD DISK SPACE: MINIMUM 3 GB FOR DATABASE USAGE FOR FUTURE

DATABASE: MYSQL

**GIT AND GIT HUB:**

**VISHAL MUNSHI:** **https://github.com/TONI1704**

**ROSHAN PATEL: https://github.com/Roshanpatel99**

**AKASH YADAV:** **https://github.com/Akash9741**

**Benefits of Using a Library Management System**

**Efficient Resource Management**

Streamlines the organization and tracking of library materials, enhancing accessibility for patrons.

**Data-Driven Decision Making**

Provides valuable insights through analytics, aiding in informed collection development and resource allocation.

**Improved User Experience**

Enables patrons to easily find and borrow materials, enhancing overall satisfaction and engagement.

**PROJECT BRIEF**

Library Management System including software requirement specification (SRS) and comparison between existing and proposed system. The functional and non-functional requirements are included in SRS part to provide complete description and overview of system requirement before the developing process is carried out. Besides that, existing vs proposed provides a view of how the proposed system will be more efficient than the existing one.

SOFTWARE REQUIREMENT SPECIFICATION

PRODUCT DESCRIPTION:

Library Management System is a computerized system which helps user(librarian) to manage the library daily activity in electronic format. It reduces the risk of paper work such as file lost, file damaged and time consuming. It can help user to manage the transaction or record more effectively and timesaving.

PROBLEM STATEMENT:

The problem occurred before having computerized system includes:

• File lost

When computerized system is not implemented file is always lost because of human

Environment. Sometimes due to some human error there may be a loss of records.

• File damaged when a computerized system is not there file is always lost due to

Some accident like spilling of water by some member on file accidentally.

Besides some natural disaster like floods or fires may also damage the files.

• Difficult to search record

When there is no computerized system there is always a difficulty in searching of

Records if the records are large in number.

• Space consuming

After the number of records become large the space for physical storage of file

And records also increase if no computerized system is implemented.

• Cost consuming

As there is no computerized system the to add each record paper will be needed

Which will increase the cost for the management of library?

SYSTEM OBJECTIVES

• Improvement in control and performance

The system is developed to cope up with the current issues and problems of library.

The system can add user, validate user and is also bug free.

• Save cost

After computerized system is implemented less human force will be required

To maintain the library thus reducing the overall cost.

• Save time

Librarian is able to search record by using few clicks of mouse and few searches

keywords thus saving his valuable time.

• Option of online Notice board

Librarian will be able to provide a detailed description of workshops going in the

college as well as in nearby colleges

• Lecture Notes

Teacher have a facility to upload lectures notes in a pdf file having size not

more than 10mb

SYSTEM REQUIREMENTS

NON-FUNCTIONAL REQUIREMENTS

• Product Requirements

EFFICIENCY REQUIREMENT

When a library management system will be implemented librarian and user will easily access library as searching and book transaction will be very faster.

RELIABILITY REQUIREMENT

The system should accurately perform member registration, member validation, report generation, book transaction and search

USABILITY REQUIREMENT

The system is designed for a user-friendly environment so that student and staff of library can perform the various tasks easily and in an effective way.

ORGANIZATIONAL REQUIREMENT

IMPLEMENTATION REQUIREMNTS

In implementing whole system it uses html in front end with php as server side scripting language which will be used for database connectivity and the backend ie the database part is developed using mysql.

DELIVERY REQUIREMENTS

The whole system is expected to be delivered in six months of time with a weekly evaluation by the project guide

FUNCTIONAL REQUIREMENTS

NORMAL USER

USER LOGIN

Description of feature

This feature used by the user to login into system. They are required to enter user id and password before they are allowed to enter the system. The user id and password will be verified and if invalid id is there user is allowed to not enter the system.

Functional requirements

-user id is provided when they register

-The system must only allow user with valid id and password to enter the system

-The system performs authorization process which decides what user level can access to.

-The user must be able to logout after they finished using system.

REGISTER NEW USER

Description of feature

This feature can be performed by all users to register new user to create account.

Functional requirements

-System must be able to verify information

-System must be able to delete information if information is wrong

Admin Features

• Admin Dashboard

• Admin can add/update/ delete category

• Admin can add/update/ delete author

• Admin can add/update/ delete books

• Admin can issue a new book to student and also update the details when student return book

• Admin can search student by using their student ID

• Admin can also view student details

• Admin can change own password

Students-

• Student can register yourself and after registration they will get student id

• After login student can view own dashboard.

• Student can update own profile.

• Student can view issued book and book return date-time.

• Student can also view the available books in the library.

• Student can also change own password.

• Student can also recover own password.

SOFTWARE AND HARDWARE REQUIREMENTS

This section describes the software and hardware requirements of the system

SOFTWARE REQUIREMENTS

• Operating system- Windows 7 is used as the operating system as it is stable and

supports more features and is more user friendly

• Database MYSQL-MYSQL is used as database as it easy to maintain and retrieve records by simple queries which are in English language which are easy to understand and easy to write.

• Development tools and Programming language- HTML is used to write the whole code and develop webpages with CSS, java script for styling work and php for sever side scripting.

HARDWARE REQUIREMENTS

➢

Intel core i5 2nd generation is used as a processor because it is fast than other processors an provide reliable and stable and we can run our pc for longtime. By using this processor, we can keep on developing our project without any worries.

➢

Ram 1 GB is used as it will provide fast reading and writing capabilities and will in turn support in processing.

EXISTING VS PROPOSED SYSTEM

i. Existing system does not have any facility of teachers login or student login where-as proposed system will have a facility of student login as well as teacher’s login

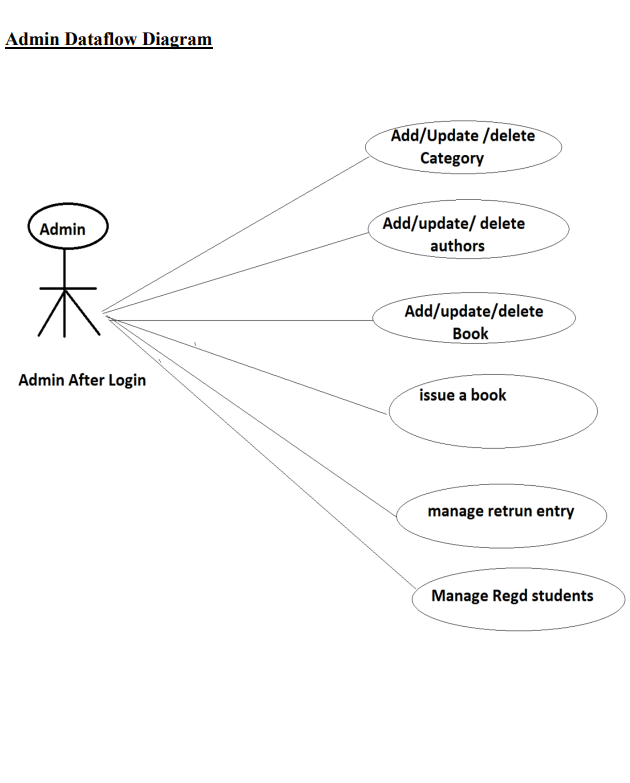
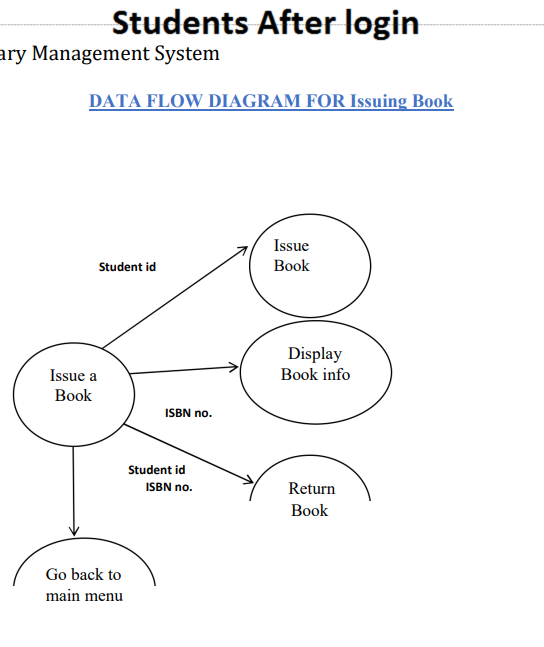
ii. Existing system does not have a facility of online reservation of books whereas proposed system has a facility of online reservation of books

iii. Existing system does not have any facility of online notice board where description of workshops happening in our college as well as nearby colleges is being provided.

iv. Existing system does not has any option of lectures notes uploaded by teachers whereas proposed system will have this facility

v. Existing system does not have any facility to generate student reports as well book issue reports whereas proposed system provides librarian with a tool to generate reports

vi. Existing system does not has any facility for book request and suggestions where as in proposed system after logging in to their accounts student can request books as well as provide suggestions to improve library



**TECHNOLOGY USED**

HTML- HTML or Hyper Text Markup Language is the main markup language for creatingweb pages and other information that can be displayed in a web browser.HTML is written in the form of HTML elements consisting of tags enclosed in angle brackets (like <html>), within the web page content. HTML tags most commonly come in pairs like <h1> and </h1>, although some tags represent empty elements and so are unpaired, for example <img>. The first tag in a pair is the start tag, and the second tag is the end tag (they are also called opening tags and closing tags). In between these tags web designers can add text, further tags, comments and other types of text-based content. The purpose of a web browser is to read HTML documents and compose them into visible or audible web pages. The browser does not display the HTML tags, but uses the tags to interpret the content of the page.HTML elements form the building blocks of all websites. HTML allows images and objects to be embedded and can be used to create interactive forms. It provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items. It can embed scripts written in languages such as JavaScript which affect the behavior of HTML web pages.

CSS- Cascading Style Sheets (CSS) is a style sheet language used for describing the lookand formatting of a document written in a markup language. While most often used to style web pages and interfaces written in HTML and XHTML, the language can be applied to any kind of XML document, including plain XML, SVG and XUL. CSS is a cornerstone specification of the web and almost all web pages use CSS style sheets to describe their presentation.CSS is designed primarily to enable the separation of document content from document presentation, including elements such as the layout, colors, and fonts.

JAVA SCRIPT- JavaScript (JS) is a dynamic computer programming language. It is most commonly used as part of web browsers, whose implementations allow client-side scripts to interact with the user, control the browser, communicate asynchronously, and alter the document content that is displayed.

**CODING**

**Cart.html**

**<table>**

**<tr>**

**<th>BOOK name</th>**

**<th>Price</th>**

**<th>Quantity</th>**

**<th>Amount</th>**

**</tr>**

**<tr>**

**<td>Java 2</td>**

**<td>$35.5</td>**

**<td>2</td>**

**<td>$70</td>**

**</tr>**

**<tr>**

**<td>XML bible</td>**

**<td>%40.5</td>**

**<td>1</td>**

**<td>$40.5</td>**

**</tr>**

**<tr>**

**<td>Total amount</td>**

**<td>-$130.5</td>**

**</tr>**

**</table>**

**<style>**

**table {**

**font-family: arial, sans-serif;**

**border-collapse: collapse;**

**width: 100%;**

**}**

**td,**

**th {**

**border: 1px solid #dddddd;**

**text-align: left;**

**padding: 8px;**

**}**

**</style>**

**catalogue.html**

**<html>**

**<head>**

**<title> Catalogue </title>**

**</head>**

**<body bgcolor="pink">**

**<form action="order.html">**

**<table border="1" width="100%">**

**<tr>**

**<td>**

**<img src="./images/book1.jpg" width=100 height=100/>**

**</td>**

**<td> Book: Web Technologies <br> Author: Uttam K. Roy <br> Publication:Oxford**

**University Press</td> <td>531 &nbsp;&nbsp;&nbsp;</td>**

**<td> <input type="submit" value="Add to cart"/></td> </tr>**

**<tr>**

**<td> <img src="./images/book2.jpg" width=100 height=100/></td>**

**<td> Book: PHP & MySQL Web Development <br> Author:Luke Welling & Laura**

**Thompson <br> Publication:PEARSON</td> <td> 898 &nbsp;&nbsp;&nbsp; </td>**

**<td> <input type="submit" value="Add to cart"/></td> </tr>**

**</table> </form>**

**</body> </html>**

**civil.html**

**<html>**

**<body bgcolor="Plum">**

**<h1><font color="blue">Civil Engineering</font></h1>**

**<h2>**

**<ol type="I">**

**<li>Fluid Mechanics</li>**

**<li>Engineering Mechanics</li>**

**<li>Surveying & Geomatic</li>**

**</ol>**

**</h2>**

**</body>**

**</html>**

**cse.html**

**<html>**

**<head><title>CSE</title></head>**

**<body bgcolor="cyan">**

**<center><font color="blue"><h1>Computer Science and Engineering</h1></font></center>**

**<br>**

**<table align="center">**

**<tr>**

**<td>Text Books</td>**

**<td>**

**<select >**

**<option value="select the book" selected>Select the book**

**<option value="C&Ds">C&Ds**

**<option value="Ads">Ads**

**<option value="Java">Java**

**<option value="Oracle">Oracle**

**<option value="Ms SQL Server">Ms SQL Server**

**<option value="MySql">MySql**

**</select>**

**</td></tr>**

**<tr>**

**<td>Quantity</td>**

**<td><input type="text" id="q"></td>**

**</tr>**

**<tr>**

**<td></td>**

**<td>**

**<form method=post action="order.html">**

**<input type="submit" value=ok />**

**</form>**

**</td>**

**</tr>**

**</table>**

**<center>**

**<pre> Cost of one book is"500" + shipping "100" </pre>**

**</center>**

**</body>**

**</html>**

**ece.html**

**<html>**

**<body bgcolor="Plum">**

**<h1><font color="blue">Electronics and Communication Engineering</font></h1>**

**<h2>**

**<ul>**

**<li>Digital Circuits</li> <li>Signals and Systems</li> <li>Digital Communication</li>**

**</ul>**

**</h2>**

**</body>**

**</html>**

**eee.html**

**<html>**

**<body bgcolor="Plum">**

**<h1><font color="blue">Electrical and Electronics Engineering</font></h1>**

**<h2>**

**<ul type="square">**

**<li>Concepts in Electric Circuits</li>**

**<li>Introduction to Electronic Engineering</li>**

**<li>Electrical Power</li>**

**</ul>**

**</h2>**

**</body>**

**</html>**

**header.html**

**<html>**

**<head>**

**<title>Top Frame</title>**

**</head>**

**<body bgcolor="YellowGreen ">**

**<center>**

**<marquee bgcolor="yellow" width="650" behavior="alternate">**

**<font face="Brush Script MT" size="8" color="green"><b><i>LIBRARY MANAGEMENT SYSTEM</i></b>**

**</font>**

**</marquee> <br>**

**<font face="Brush Script" size="6" color="white"><b></b></font>**

**</center>**

**<br>**

**<table width="100%" height="50%" cellspacing=10>**

**<tr align="center">**

**<td> <a href="index.html" target="\_parent"><font face="Brush Script" size="6"**

**color="navy">HOME </font></a> </td>**

**<td> <a href="login.html" target="rightframe"><font face="Brush Script" size="6"**

**color="navy">LOGIN </font></a> </td>**

**<td> <a href="registration.html" target="rightframe"> <font face="Brush Script"**

**size="6" color="navy">REGISTER </font></a> </td>**

**<td> <a href="catalogue.html" target="rightframe"> <font face="Brush Script"**

**size="6" color="navy">CATALOGUE </font></a> </td>**

**<td> <a href="cart.html" target="rightframe"> <font face="Brush Script"**

**size="6" color="navy">CART </font></a> </td>**

**</tr>**

**</table>**

**</body>**

**</html>**

**index.html**

**<html>**

**<frameset rows="40%,\*">**

**<frame src="header.html" noresize scrolling="NO" name="topframe">**

**<frameset cols="15%,\*">**

**<frame src="left.html" noresize scrolling="NO" name="leftframe">**

**<frame src="right.html" noresize name="rightframe" scrolling="auto">**

**</frameset>**

**</frameset>**

**</html>**

**left.html**

**<html>**

**<body align="center" bgcolor="bisque"> <br>**

**<a href="cse.html" target="rightframe"><font size="6">CSE</font></a><br><br>**

**<a href="ece.html" target="rightframe"><font size="6">ECE</font></a><br><br>**

**<a href="eee.html" target="rightframe"><font size="6">EEE</font></a><br><br>**

**<a href="civil.html" target="rightframe"><font size="6">CIVIL</font></a><br>**

**</body>**

**</html>**

**login.html**

**<html>**

**<body bg color="pink">**

**<basefont face="Cambria" size="4"> <br>**

**<center>**

**<font face="Brush Script MT" size="7" color="purple">**

**<b>Enter Login Details:</b>**

**</font>**

**</center>**

**<form name="f1" method="post" action="right.html">**

**<table align="center" width="100" height="150" cellspacing=”15”>**

**<tr><td><b>Login ID:</b></td>**

**<td><input type="text" name="t1"></td>**

**</tr>**

**<tr>**

**<td><b>Password:</b></td>**

**<td><input type="password" name="t2"></td>**

**</tr>**

**<tr align="center">**

**<td><input type="submit" name="b1" value="Submit"></td>**

**<td><input type="reset" name="b2" value="Reset"></td>**

**</tr>**

**</table> </form> </basefont> </body>**

**</html>**

**order.html**

**<html>**

**<head><title>order conformation</title></head>**

**<body bgcolor="cyan">**

**<center>**

**<pre><strong>**

**<b>Your order Is Conformed**

**</strong></pre>**

**<h2><b>THANK YOU...Visit Again</h2>**

**</center>**

**</body>**

**</html>**

**registration.html**

**<html>**

**<head>**

**<title>Registration Form</title>**

**<script>**

**function validateForm() {**

**var firstName = document.getElementById('firstname').value;**

**var lastName = document.getElementById('lastname').value;**

**var email = document.getElementById('email').value;**

**var password = document.getElementById('pass').value;**

**var mobileNo = document.getElementById('mobileno').value;**

**// Name validation (minimum 6 characters, alphabets only)**

**var nameRegex = /^[a-zA-Z]{6,}$/;**

**if (!nameRegex.test(firstName)) {**

**alert('First name must be at least 6 characters and contain only alphabets');**

**return false;**

**}**

**// Last name validation (at least one character)**

**if (lastName.length < 1) {**

**alert('Last name should contain at least one character');**

**return false;**

**}**

**// Phone number validation (exactly 10 digits)**

**if (mobileNo.length !== 10 || isNaN(mobileNo)) {**

**alert('Mobile number must be exactly 10 digits and contain only numbers');**

**return false;**

**}**

**// Email validation**

**var emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;**

**if (!emailRegex.test(email)) {**

**alert('Invalid email address');**

**return false;**

**}**

**// Password validation (minimum 6 characters)**

**if (password.length < 6) {**

**alert('Password must be at least 6 characters');**

**return false;**

**}**

**// Other validations can be added as needed**

**window.open('/login.html')**

**return true;**

**}**

**</script>**

**</head>**

**<body bgcolor="#E4F0F8">**

**<center><font color="blue" size="6" face="arial">Registration Form</font></center><br />**

**<form action="right.html" onsubmit="return validateForm()">**

**First Name(Minimum 6 characters)<font color="red">\* </font>**

**<input type='text' id='firstname' /><br /><br />**

**Last Name<font color="red">\* </font> &nbsp;&nbsp;&nbsp;**

**<input type='text' id='lastname' /><br /><br />**

**Email Address<font color="red">\* </font> &nbsp;&nbsp;&nbsp;**

**<input type='text' id='email' /><br />**

**<font color="red">(one e-mail id only):</font> &nbsp;&nbsp;&nbsp;**

**<font color="redblue">e.g. ashwani@gmail.com</font><br /><br/>**

**Password(minimum 6 characters)<font color="red">\* </font> &nbsp;&nbsp;&nbsp;**

**<input type='password' id='pass'><br /><br/>**

**Address<font color="red">\* </font> &nbsp;&nbsp;&nbsp;**

**<textarea rows="2" cols="20" id='addr'></textarea> <br /> <br/>**

**Mobile No<font color="red">\* </font> &nbsp;&nbsp;&nbsp;**

**<input type='text' id='mobileno' /><br />**

**Gender: <input type='radio' name="gender">male**

**<input type='radio' name="gender">female<br/><br />**

**<input type='Submit' value='submit' />**

**<input type='Reset' value='reset' />**

**</form>**

**</body>**

**</html>**

**right.html**

**<html>**

**<body bgcolor="orange">**

**<center>**

**<font face="Brush Script MT" size="5" color="blue">**

**<h1><b>Welcome to the Online Book Store!!!</b></h1></font><br>**

**<font face="Brush Script MT" size="5" color="red">**

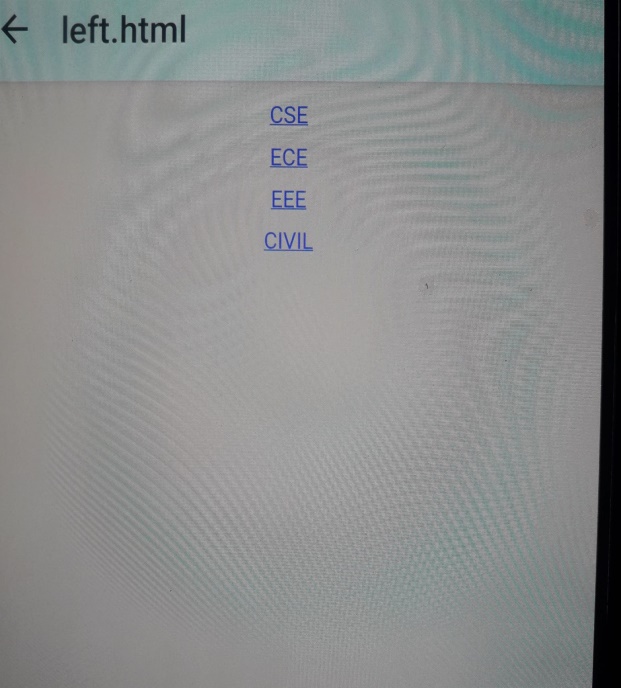
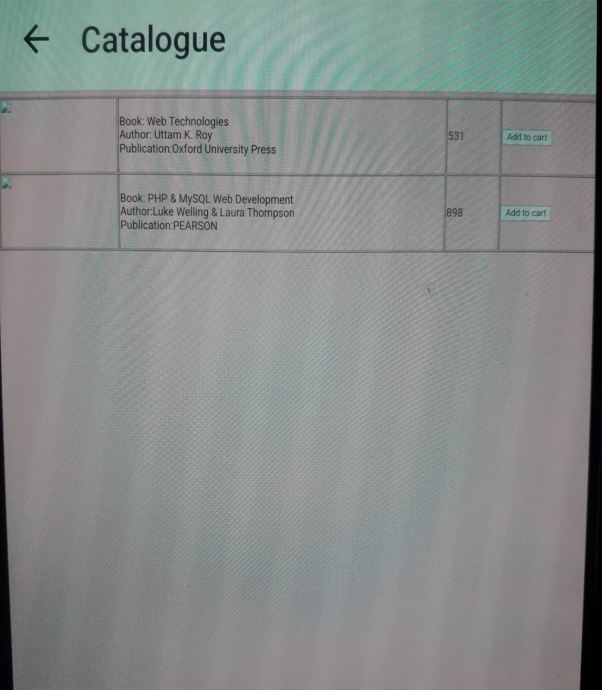
**<h2><b> "A Huge Collection Of Engineering E-Books"</b></h2></font>**

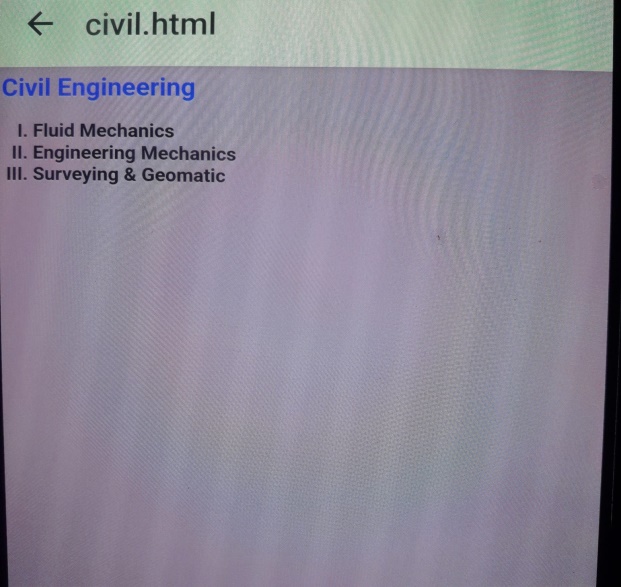
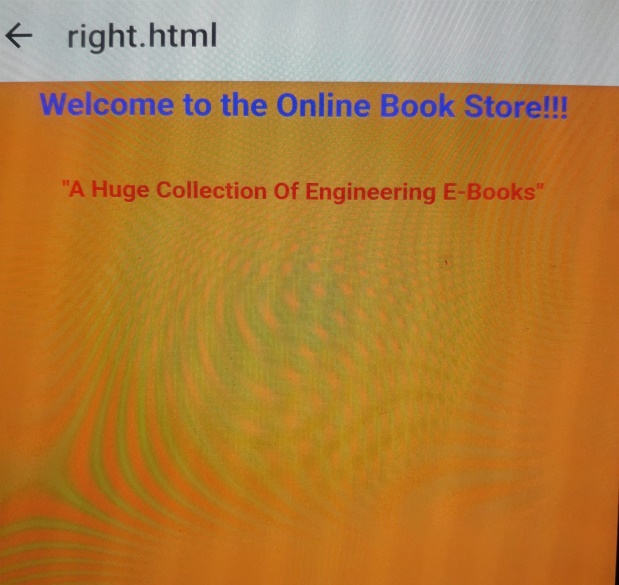
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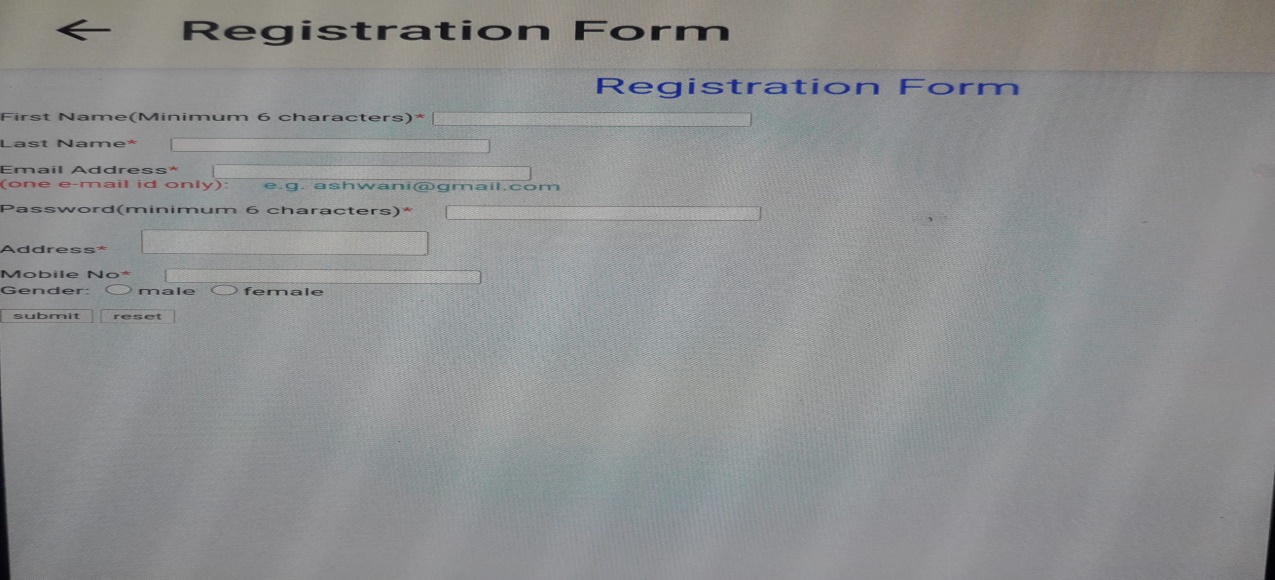
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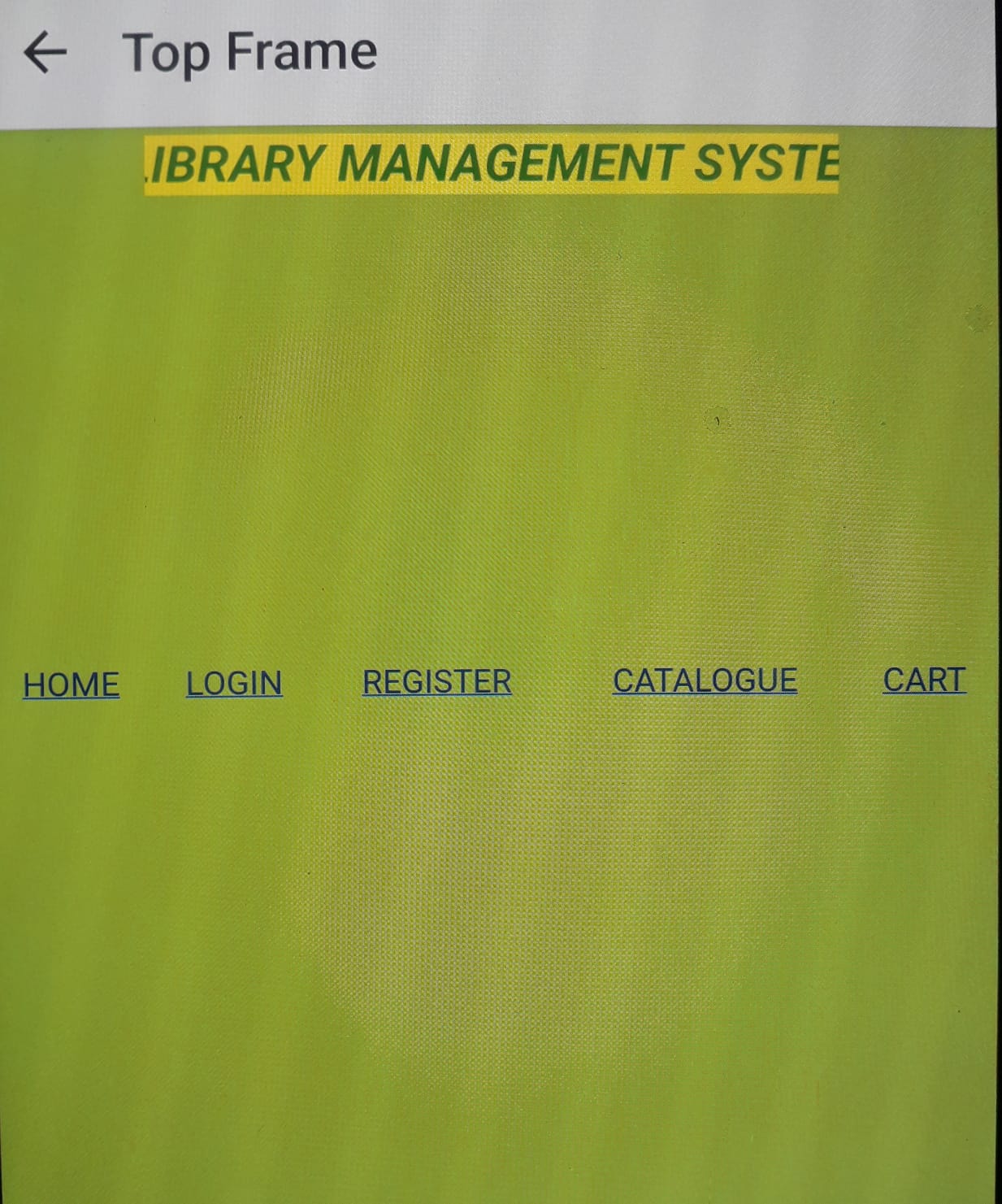
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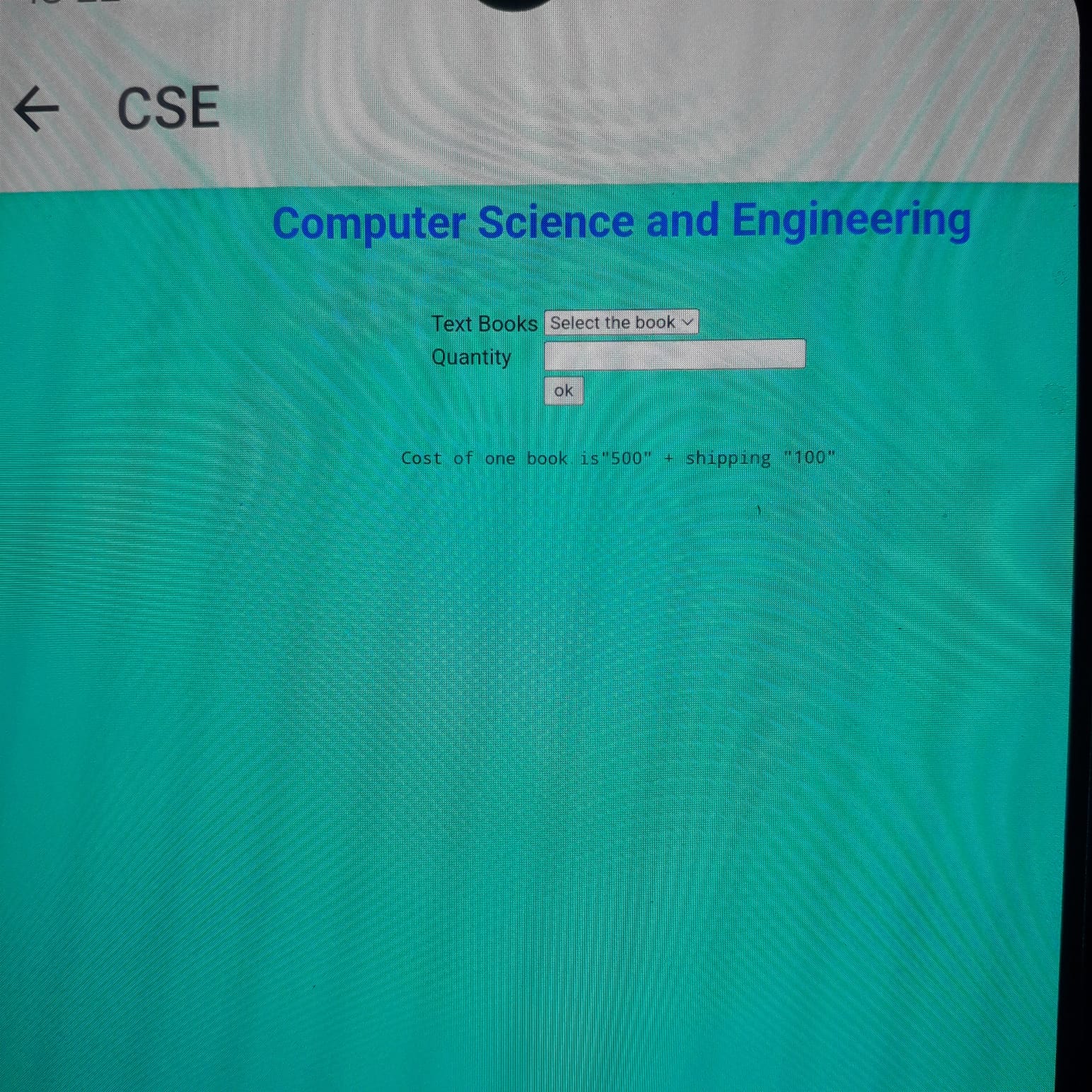
**SCREENSHOT**

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**FUTURE SCOPE AND CONCLUSION**

This website provides a computerized version of library management system which will benefit the students as well as the staff of the library.

It makes entire process online where student can search books, staff can generate reports and do book transactions. It also has a facility for student login where student can login and can see status of books issued as well request for book or give some suggestions. It has a facility of teacher’s login where teachers can add lectures notes and also give necessary suggestion to library and also add info about workshops or events happening in our college or nearby college in the online notice board.

There is a future scope of this facility that many more features such as online lectures video tutorials can be added by teachers as well as online assignments submission facility, a feature Of group chat where students can discuss various issues of engineering can be added to this project thus making it more interactive more user friendly and project which fulfills each users need in the best way possible.