“E-Library Management System”

A PROJECT REPORT

Submitted for the partial fulfilment

for the degree of

Bachelor of Computer Science

by

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Under the Guidance of

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Accredited with A grade by NAAC

ISO 9001 : 2015 CERTIFIED

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BONAFIDE CERTIFICATE

Certified that this report titled “E-Library Management System” is a bonafide record of the project work done by Sri/ Kum Pradeep Kumar P (222103306) under our supervision and guidance, towards partial fulfillment of the requirement for award of the Degree of B.Sc Computer Science of K.C.S. Kasi Nadar College Of Arts & Science.

Signature of the Guide **Head of the Department**

Date :

Examiners

1. Name :

   Signature:

2. Name :

   Signature :

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INTRODUCTION

“E-Library Management System”

Chapter 1

INTRODUCTION

1. PROBLEM DEFINITION

In today's digital age, traditional library systems face challenges in managing resources efficiently and providing seamless user experiences. The E-library Management System addresses these challenges by offering an online platform for administrators to manage digital resources and for users to access and interact with these resources remotely.

SYSTEM ANALYSIS

Chapter 2

SYSTEM ANALYSIS

2.1 Existing System

Traditional library systems rely on manual processes, paper-based records, and limited accessibility. This leads to inefficiencies in resource management, user engagement, and data security.

Drawbacks:

- Security concerns
- Limited Physical Interactions
- Maintenance Overhead

2.2 Proposed System

The proposed E-library Management System offers a comprehensive solution with features such as user authentication, book management, search functionality, commenting, and request management. By leveraging modern technologies, the system improves accessibility, efficiency, and user satisfaction.

Advantages:

- Improved Accessibility
- Efficient Resource management
- Centralized Data Storage
- Enhanced User Experience

SOFTWARE DESCRIPTION

Chapter 3

SOFTWARE DESCRIPTION

3.1 HARDWARE REQUIREMENTS

The system can be deployed on standard computer hardware with internet connectivity. Additional server resources may be required for hosting the system.

Processor : AMD PRO A4-4350B R4, 2C+3G, 2.50GH z

Installed RAM : 4.00 GB

System Type : 64-bit operating system, x64-based processor

Mouse : OPTICAL SCROLL MOUSE

Keyboard : 107 KEYS KEYBOARD

3.2 Software Requirements

Development Environment : Notepad++ for code development.

Server Environment : XAMPP server for hosting the backend.

Frontend Technologies : HTML, CSS, Bootstrap for user interface design.

Backend Scripting : PHP for server-side processing.

Database Management : MySQL for storing and managing data.

3.3 Software Description

The system architecture comprises frontend and backend components. The frontend is developed using HTML and CSS for interface design. The backend logic is implemented in PHP, which interacts with the MySQL database for data retrieval and storage. XAMPP server facilitates local hosting and testing during development.

Frontend Technologies:

HTML: HTML, short for Hypertext Markup Language, serves as the backbone of the World Wide Web, providing the structure and content for web pages. It consists of a series of elements or tags that define the different parts of a webpage, such as headings, paragraphs, images, links, forms, and more.

Each HTML element is represented by a tag enclosed in angle brackets, such as for paragraphs or <img> for images. These tags are typically paired, with an opening tag indicating the beginning of an element and a closing tag denoting its end. For example, a paragraph element would be written as ... , with the content of the paragraph placed between the opening and closing tags.

HTML documents are structured as a hierarchy of elements, with the <html> element at the top, followed by the <head> and <body> elements. The <head> section contains metadata about the document, such as the title, character encoding, and links to external

resources like stylesheets and scripts. The <body> section contains the main content of the webpage, including text, images, links, and other multimedia elements.

HTML also allows for the creation of forms, which enable users to input data and interact with web pages. Form elements such as <input>, <textarea>, <select>, and <button> facilitate various types of user input, such as text fields, checkboxes, radio buttons, dropdown menus, and submit buttons.

In addition to standard HTML elements, developers can also create custom elements using technologies like Web Components, which enable the creation of reusable components with encapsulated functionality and styling.

Overall, HTML provides the foundation for creating rich, interactive, and accessible web experiences, and it continues to evolve with the development of new standards and specifications.

CSS: CSS, or Cascading Style Sheets, is a stylesheet language used to describe the presentation and styling of HTML documents. It complements HTML by controlling the layout, appearance, and design of web pages, including elements such as fonts, colors, spacing, and positioning.

Here are some key details about CSS:

1. Selectors: CSS selectors are patterns used to select and style HTML elements. They can target elements based on their tag name, class, ID, attributes, or relationship with other elements. For example, you can target all <p> elements with p, elements with a specific class using .classname, or elements with a specific ID using #id.

2. Properties and Values: CSS properties define the visual aspects of HTML elements, such as color, font-size, margin, padding, background-color, and many more. Each property is assigned a value, which specifies how the property should be applied. For example, color: blue; sets the text color to blue, and font-size: 16px; sets the font size to 16 pixels.

3. Selectors and Declarations: CSS rules consist of selectors and declarations. Selectors determine which elements the rule applies to, while declarations define the styling for those elements. Multiple declarations can be grouped together within a set of curly braces {}, and each declaration is separated by a semicolon ;.

4. Cascading and Specificity: CSS follows a cascading model, where multiple styles can be applied to the same element, and the final style is determined by a combination of factors, including specificity, inheritance, and the order of declaration. Specificity refers to the weight or importance of a selector in determining which styles apply to an element.

5. Box Model: The CSS box model describes the layout and spacing of elements on a webpage. It consists of content, padding, border, and margin. The content area contains the actual content of the element, while padding adds space between the content and the border. The border surrounds the content and padding, and margin provides space between elements.

6. Responsive Design: CSS plays a crucial role in creating responsive web designs that adapt to different screen sizes and devices. Media queries allow developers to apply different styles based on factors such as screen width, height, and orientation, enabling the creation of layouts optimized for desktops, tablets, and smartphones.

7. Preprocessors and Postprocessors: CSS preprocessors like Sass and Less extend the functionality of CSS by adding features such as variables, nesting, mixins, and functions, which help streamline the styling process and improve code maintainability. Postprocessors like Autoprefixer automatically add vendor prefixes to CSS properties to ensure cross-browser compatibility.

Overall, CSS is an essential technology for web development, providing the means to create visually appealing, responsive, and accessible web experiences by controlling the presentation and styling of HTML documents.

Backend Scripting:

PHP: PHP, which stands for Hypertext Preprocessor, is a server-side scripting language primarily used for web development. It is embedded within HTML code and executed on the server to generate dynamic web content. Here are some detailed aspects of PHP:

1. Server-Side Scripting: Unlike client-side languages like HTML, CSS, and JavaScript, PHP is executed on the web server before the resulting HTML is sent to the client's browser. This allows PHP to interact with databases, manipulate files, authenticate users, and perform other server-side tasks.

2. Syntax and Features: PHP syntax is similar to that of C, Java, and Perl, making it relatively easy to learn for those familiar with programming concepts. It supports procedural and object-oriented programming paradigms, as well as features like variables, operators, control structures (loops and conditionals), functions, classes, and namespaces.

3. Integration with HTML: PHP code is embedded within HTML using special delimiters, typically <?php and ?>. This allows developers to mix PHP logic with HTML markup seamlessly, enabling the dynamic generation of web pages based on user input, database queries, and other factors.

4. Database Connectivity: One of PHP's key strengths is its ability to interact with databases, such as MySQL, PostgreSQL, SQLite, and others. PHP provides built-in

functions and extensions for connecting to databases, executing SQL queries, retrieving and manipulating data, and managing database transactions.

5. Web Development Frameworks: While PHP can be used to build web applications from scratch, many developers prefer to use PHP frameworks like Laravel, Symfony, CodeIgniter, and Yii, which provide a structured and organized way to develop web applications. These frameworks offer features such as routing, MVC (Model-View-Controller) architecture, authentication, and ORM (Object-Relational Mapping) for working with databases.

6. Security: PHP includes built-in features and functions for handling security concerns such as data validation, input sanitization, session management, and encryption. However, developers must be vigilant about security best practices to prevent common vulnerabilities such as SQL injection, cross-site scripting (XSS), and CSRF (Cross-Site Request Forgery).

7. Community and Ecosystem: PHP has a large and active community of developers who contribute to its development, maintain open-source projects, and provide support and resources for learning and troubleshooting. The PHP ecosystem includes a vast array of libraries, packages, and tools for various purposes, from web development frameworks to content management systems (CMS) like WordPress and Drupal.

Overall, PHP is a versatile and powerful language for building dynamic web applications, ranging from simple websites to complex enterprise-level systems. Its ease of use, extensive feature set, and strong community support make it a popular choice for web development.

Database Management:

MySQL: MySQL is an open-source relational database management system (RDBMS) that is widely used for storing, managing, and retrieving data in web applications and other software systems. Here are some detailed aspects of MySQL:

1. Relational Database: MySQL follows the relational database model, where data is organized into tables consisting of rows and columns. Tables can have relationships with each other through keys, such as primary keys and foreign keys, enabling the creation of complex data structures and ensuring data integrity.

2. SQL (Structured Query Language): MySQL uses SQL as its primary language for interacting with the database. SQL allows developers to perform various operations on the database, including creating and modifying tables, inserting, updating, and deleting data, and querying data using SELECT statements.

3. Features: MySQL offers a wide range of features to support efficient data management and retrieval. These include support for transactions and ACID (Atomicity,

Consistency, Isolation, Durability) properties, indexes for optimizing query performance, stored procedures, triggers, views, and full-text search capabilities.

4. Scalability and Performance: MySQL is designed to scale from small, single-server deployments to large, distributed systems. It supports features like replication, sharding, and clustering for high availability and scalability. Additionally, MySQL's performance can be optimized through proper indexing, query optimization, caching, and other tuning techniques.

5. Community and Support: MySQL has a large and active community of developers, administrators, and users who contribute to its development, provide support, and share resources and best practices. MySQL is backed by Oracle Corporation, which offers commercial support and enterprise editions of MySQL with additional features and support options.

6. Compatibility and Portability: MySQL is available on various operating systems, including Linux, Windows, macOS, and Unix-like systems, making it highly portable. It also supports multiple programming languages and development platforms through drivers and APIs, allowing developers to integrate MySQL with their preferred programming languages and frameworks.

7. Security: MySQL includes built-in security features to protect data and prevent unauthorized access. These features include user authentication and authorization,

encryption for data in transit and at rest, SSL/TLS support, role-based access control (RBAC), and auditing capabilities to track database activity.

8. Open Source: MySQL is released under the GNU General Public License (GPL), making it free and open-source software. This allows developers to use, modify, and distribute MySQL without cost and with the freedom to customize it to suit their needs.

Overall, MySQL is a reliable, scalable, and feature-rich database management system that is widely used in web development, e-commerce, content management systems, data warehousing, and many other applications. Its combination of performance, versatility, and community support makes it a popular choice for organizations of all sizes.

Server Environment:

XAMPP: XAMPP is a free and open-source cross-platform web server solution stack package developed by Apache Friends. The name "XAMPP" is an acronym for cross-platform (X), Apache HTTP Server, MySQL database (M), PHP, and Perl (P). It is designed to facilitate the development and testing of dynamic web applications locally on a developer's computer. Here are some detailed aspects of XAMPP:

1. Components: XAMPP bundles together several software components commonly used in web development:

- Apache HTTP Server: A powerful and widely-used web server software that serves web content over the HTTP protocol.
- MySQL: A popular open-source relational database management system (RDBMS) used for storing and managing data in web applications.
- PHP: A server-side scripting language used for developing dynamic web pages and web applications.
- Perl: A high-level programming language used for various purposes, including web development, system administration, and text processing.
- Additional tools and utilities: XAMPP includes other tools and utilities, such as phpMyAdmin (a web-based MySQL administration tool), OpenSSL (for secure connections), and FileZilla FTP server (for file transfer).

2. Cross-Platform: XAMPP is available for multiple operating systems, including Windows, Linux, and macOS, making it a versatile solution for developers regardless of their platform of choice.

3. Easy Installation and Configuration: Installing XAMPP is straightforward, as it comes with an installer package that sets up all the necessary components with default configurations. Developers can quickly get a local web server environment up and running without having to manually install and configure each component separately.

4. Development and Testing: XAMPP provides a convenient platform for developing and testing web applications locally on a developer's computer before deploying them to a production server. Developers can write and debug code, interact with databases, and test their applications in a controlled environment without the need for an internet connection or external hosting.

5. Customization: While XAMPP comes with pre-configured settings, developers have the flexibility to customize the configuration of individual components according to their specific requirements. This includes adjusting PHP settings, enabling or disabling Apache modules, and configuring MySQL databases.

6. Community and Support: XAMPP has a large and active community of developers who contribute to its development, provide support, and share resources and best practices. Users can find documentation, tutorials, forums, and other resources to help them troubleshoot issues and learn more about using XAMPP effectively.

7. Security Considerations: It's important to note that XAMPP is primarily designed for development and testing purposes and may not be suitable for production environments without proper security hardening. Developers should be cautious when exposing XAMPP servers to the internet and take appropriate measures to secure them, such as configuring firewalls, enabling authentication, and keeping software components up to date.

Overall, XAMPP is a convenient and feature-rich solution for setting up a local web server environment for web development and testing. Its ease of installation, cross-platform compatibility, and comprehensive feature set make it a popular choice among developers worldwide.

SYSTEM DESIGN

Chapter 4

SYSTEM DESIGN

4.1 DATABASE DESIGN

The database schema includes tables for admin, users, books, comments, and requests. Each table contains specific fields to store relevant information, ensuring data integrity and efficient retrieval.

TABLE DESIGN

DATABASE NAME : pro
TABLE NAME : admin

FIELD NAME	DESCRIPTION	DATA TYPE
AID	Admin ID	INT
ANAME	Admin Name	VARCHAR
APASS	Admin Password	VARCHAR

DATABASE NAME : pro
TABLE NAME : book

FIELD NAME	DESCRIPTION	DATA TYPE
BOOKID	Book ID Number	INT
BTITLE	Title of Book	VARCHAR
KEYWORDS	Keywords of Book	VARCHAR

DATABASE NAME : pro
TABLE NAME : comment

FIELD NAME	DESCRIPTION	DATA TYPE
CID	Comment ID	INT
BID	Book ID Number	INT
SID	Student ID	INT
COMM	Comments	VARCHAR
LOGGS	Date and Time	DATE

DATABASE NAME : pro
TABLE NAME : request

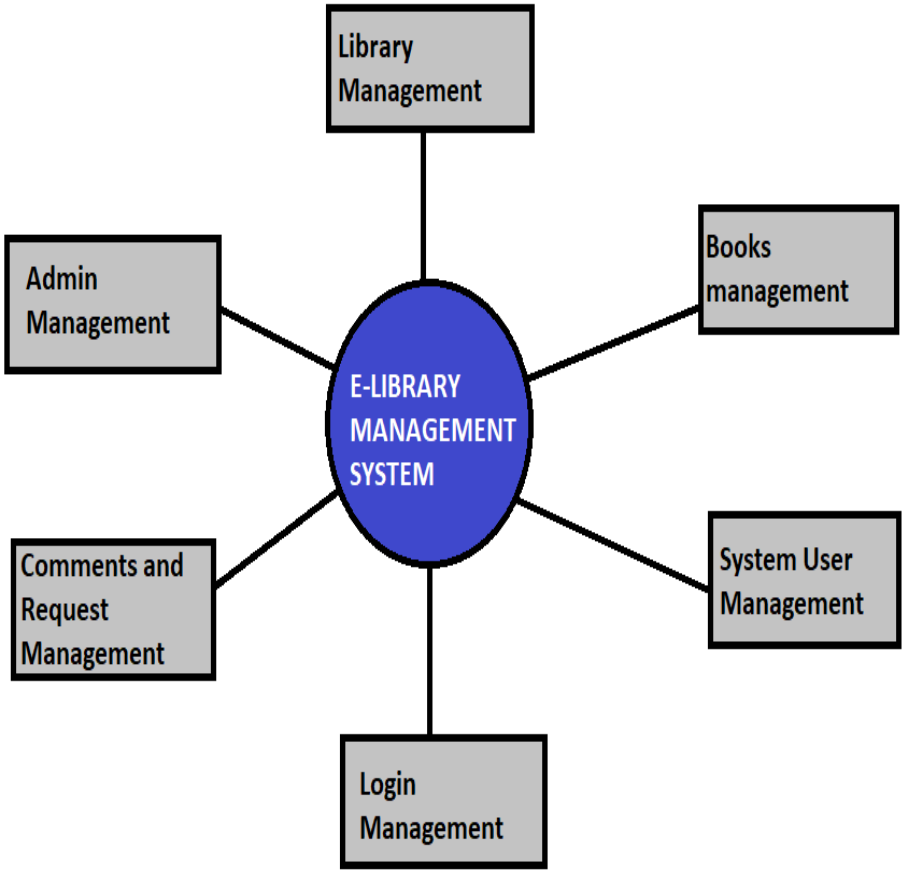
FIELD NAME	DESCRIPTION	DATA TYPE
RID	Request ID	INT
ID	Student ID	INT
MESS	Message	VARCHAR
LOGGS	Date and Time	DATE

DATABASE NAME : pro
TABLE NAME : student

FIELD NAME	DESCRIPTION	DATA TYPE
ID	Student ID	ID
NAME	Student Name	VARCHAR
PASS	Password	VARCHAR
MAIL	Student E-Mail ID	VARCHAR
DEP	Department	VARCHAR

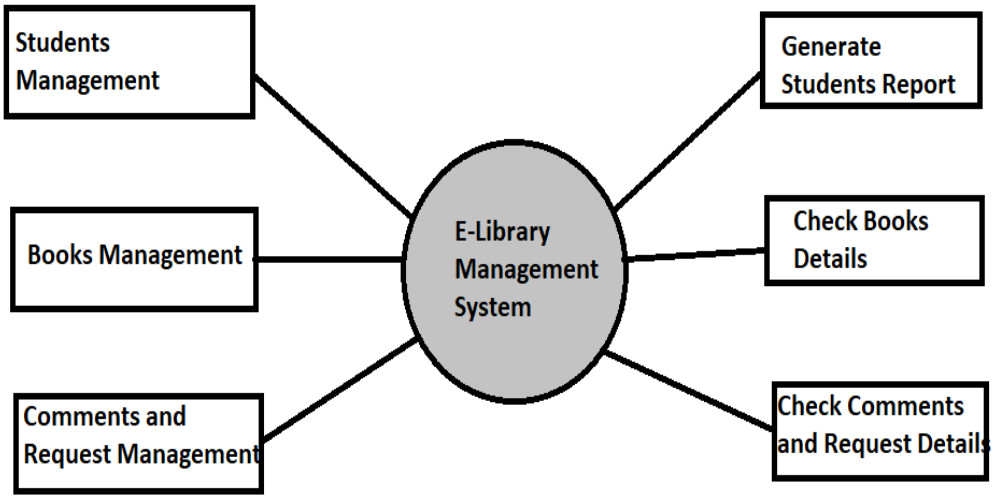
4.2 CONTEXT DIAGRAM

A context diagram illustrates the system's interaction with external entities, such as users and administrators. It provides an overview of system boundaries and interfaces.



4.3 DATA FLOW DIAGRAM

The data flow diagram depicts the flow of data within the system, including processes, data stores, and external entities. It helps visualize how data moves through different components of the system



.

MODULE DESCRIPTION

Chapter 5

MODULE DESCRIPTION

E-library Management System:

This project aims to digitize library operations, enhancing accessibility to resources and facilitating efficient management. It consists of several modules, each serving specific functions:

- ADMIN MODULE
- USER MODULE
- REGISTRATION MODULE

Admin Module:

Allows administrators to oversee user management, book uploads, comments, and requests. Functionalities include user authentication, book management, and password management.

User Module:

Enables users to search for books, view book details, leave comments, and make book requests. Features user authentication, password reset, and logout options.

Registration Module:

Facilitates new user registration by capturing relevant details such as username, email, department, and password.

Additional modules can be added based on specific requirements, such as reporting, notifications, and security enhancements.These modules collectively create a comprehensive system for managing library resources effectively, catering to both administrators and users alike.

IMPLEMENTATION
&
TESTING

Chapter 6

Implementation &Testing

6.1 CODING

The system is implemented using a combination of frontend and backend technologies. HTML, CSS, and Bootstrap are used for frontend development, while PHP is used for server-side scripting. MySQL is employed for database management.

Index.php

```
<?php
session_start();
include "database.php";


?>
<!DOCTYPE HTML>
<html>
        <head>
                <title>E-Library</title>
                <link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
```

```
<link
href="https://fonts.googleapis.com/css2?family=Roboto:wght@300;400;500&display=s
wap" rel="stylesheet">
        <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
T3c6CoIi6uLrA9TneNEoa7RxnatzjcDSCmG1MXxSR1GAsXEV/Dwwykc2MPK8M2H
N" crossorigin="anonymous">
        <link rel="stylesheet" type="text/css" href="css/style.css">
    </head>
    <body>
        <div id="container">
            <div id="header" class="bg-secondary">
                <h1>E-Library Management System</h1>
            </div>
            <div id="wrapper">
                <h3 id="heading" class="text-primary">View Book
Details</h3>
                <?php
                    $sql="SELECT * FROM book";
                    $res=$db->query($sql);
                    if($res->num_rows>0)
                    {
```

```
                    echo "<table>
                            <tr>
                                <th>SNo</th>
                                <th>Book Name</th>

                            </tr>";
                                $i=0;
                            while($row=$res-
>fetch_assoc())
                            {
                                $i++;
                                echo "<tr>";
                                echo
"<td>{$i}</td>";
                                echo
"<td>{$row["BTITLE"]}</td>";

                                echo "</tr>";
                            }
                                echo "</table>";
                    }
                    else
                    {
```

```
                                        echo "<p class='error'>No Book Records Found!!!</p>";
                                    }
                                ?>
                            </div>
                            <div id="navi" class="bg-secondary-subtle">
                                <?php
                                    include "sideBar.php";
                                ?>
                            </div>
                            <div id="footer" class="bg-dark-subtle">
                                <p>Copyright: &copy 2024. Designed and Developed by PK</p>
                            </div>
                        </div>
                    </body>
                    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js" integrity="sha384-C6RzsynM9kWDrMNeT87bh95OGNyZPhcTNXj1NW7RuBCsyN/o0jlpcV8Qyq46cDfL" crossorigin="anonymous"></script>
                </html>
```

Home.php

```
<?php
session_start();
include "database.php";


?>
<!DOCTYPE HTML>
<html>
	<head>
		<title>E-Library</title>
		<link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
<link
href="https://fonts.googleapis.com/css2?family=Roboto:wght@300;400;500&display=s
wap" rel="stylesheet">
		<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
T3c6CoIi6uLrA9TneNEoa7RxnatzjcDSCmG1MXxSR1GAsXEV/Dwwykc2MPK8M2H
N" crossorigin="anonymous">
		<link rel="stylesheet" type="text/css" href="css/style.css">
	</head>
	<body>
```

```
<div id="container">
    <div id="header" class="bg-secondary">
        <h1>E-Library Management System</h1>
    </div>
    <div id="wrapper">
        <h3 id="heading" class="text-primary">View Book Details</h3>
        <?php
            $sql="SELECT * FROM book";
            $res=$db->query($sql);
            if($res->num_rows>0)
            {
                echo "<table>
                        <tr>
                            <th>SNo</th>
                            <th>Book Name</th>

                        </tr>";
                        $i=0;
                        while($row=$res->fetch_assoc())
                        {
                            $i++;
```

```
                                                    echo "<tr>";
                                                    echo
"<td>{$i}</td>";
                                                    echo
"<td>{$row["BTITLE"]}</td>";

                                                    echo "</tr>";
                                                }
                                                    echo "</table>";
                                    }
                                    else
                                    {
                                        echo "<p class='error'>No Book Records
Found!!!</p>";
                                    }
                                ?>
                            </div>
                            <div id="navi" class="bg-secondary-subtle">
                                <?php
                                    include "sideBar.php";
                                ?>
                            </div>
                            <div id="footer" class="bg-dark-subtle">
```

```
                    <p>Copyright: &copy 2024. Designed and Developed by
PK</p>
                </div>
            </div>
        </body>
        <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"
integrity="sha384-
C6RzsynM9kWDrMNeT87bh95OGNyZPhcTNXj1NW7RuBCsyN/o0jlpcV8Qyq46cDfL
" crossorigin="anonymous"></script>
</html>
```

sidebar.php

```
<ul>
        <li><a href="Home.php">Home</a></li>
        <li><a href="alogin.php">Admin Login</a></li>
        <li><a href="ulogin.php">User Login</a></li>
        <li><a href="new.php">New User Login</a></li>
</ul>
```

Alogin.php

```
<?php
session_start();
include "database.php";
?>
<!DOCTYPE HTML>
<html>
<head>
<title>Admin Login</title>
<link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
<link
href="https://fonts.googleapis.com/css2?family=Roboto:wght@300;400;500&display=s
wap" rel="stylesheet">
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
T3c6CoIi6uLrA9TneNEoa7RxnatzjcDSCmG1MXxSR1GAsXEV/Dwwykc2MPK8M2H
N" crossorigin="anonymous">
<link rel="stylesheet" type="text/css" href="css/style.css">
</head>
<body>
<div id="container">
<div id="header" class="bg-secondary">
```

```
<h1>E-Library Management System</h1>
</div>
<div id="wrapper">
<h3 id="heading" class="text-primary">Admin Login here</h3>
<div id="center">
<?php
if(isset($_POST["submit"]))
{
$sql="SELECT * FROM admin where ANAME='{$_POST["aname"]}' and APASSWORD='{$_POST["apassword"]}'";
$res=$db->query($sql);
if($res->num_rows>0)
{
$row=$res->fetch_assoc();
$_SESSION["AID"]=$row["AID"];
$_SESSION["ANAME"]=$row["ANAME"];
header("location:ahome.php");
}
else
{
echo "<p class='error'>Invalid User Details</p>";
}
}
```

```
?>
<form action="alogin.php" method="post">
<label>Admin Name</label>
<input type="text" name="aname" required>
<label>Password</label>
<input type="password" name="apassword" required>
<button type="submit" name="submit">Login Now</button>
</form>
</div>
</div>
<div id="navi" class="bg-secondary-subtle">
<?php
include "sideBar.php";
?>
</div>
<div id="footer" class="bg-dark-subtle">
<p>Copyright: &copy 2024. Designed and Developed by PK</p>
</div>
</div>
</body>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"
integrity="sha384-
```

```
C6RzsynM9kWDrMNeT87bh95OGNyZPhcTNXj1NW7RuBCsyN/o0jlpcV8Qyq46cDfL
" crossorigin="anonymous"></script>
</html>
```

adminsideBar.php

```
<ul>
        <li><a href="ahome.php">Home</a></li>
        <li><a href="view_user.php">View User</a></li>
        <li><a href="upload_books.php">Upload Books</a></li>
        <li><a href="view_books.php">View Books</a></li>
        <li><a href="view_request.php">View Request</a></li>
        <li><a href="view_comments.php">View Comments</a></li>
        <li><a href="achange_password.php">Change Password</a></li>
        <li><a href="logout.php">Logout</a></li>
</ul>
```

Ahome.php

```
<?php
session_start();
include "database.php";
function countRecord($sql,$db)
{
        $res=$db->query($sql);
```

```
	return $res->num_rows;
}
if(!isset($_SESSION["AID"]))
{
	header("location:alogin.php");
}
?>

<!DOCTYPE HTML>
<html>
	<head>
		<title>Admin Home</title>
		<link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
<link
href="https://fonts.googleapis.com/css2?family=Roboto:wght@300;400;500&display=s
wap" rel="stylesheet">
		<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css"
rel="stylesheet"                                                integrity="sha384-
T3c6CoIi6uLrA9TneNEoa7RxnatzjcDSCmG1MXxSR1GAsXEV/Dwwykc2MPK8M2H
N" crossorigin="anonymous">
		<link rel="stylesheet" type="text/css" href="css/style.css">
```

```
</head>
<body>
    <div id="container">
        <div id="header" class="bg-secondary">
            <h1>E-Library Management System</h1>
        </div>
        <div id="wrapper">
            <h3 id="heading" class="text-primary">Welcome Admin!!!</h3>
            <div id="center">
                <ul class="record">
                    <li>Total Students : <?php echo countRecord("select * from student",$db); ?></li>
                    <li>Total Books : <?php echo countRecord("select * from book",$db); ?></li>
                    <li>Total Request : <?php echo countRecord("select * from request",$db); ?></li>
                    <li>Total Comments : <?php echo countRecord("select * from comment",$db); ?></li>
                </ul>

            </div>
        </div>
```

```
                    <div id="navi" class="bg-secondary-subtle">
                        <?php
                            include "adminsideBar.php";
                        ?>
                    </div>
                    <div id="footer" class="bg-dark-subtle">
                        <p>Copyright: &copy 2024. Designed and Developed by PK</p>
                    </div>
                </div>
        </body>
        <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js" integrity="sha384-C6RzsynM9kWDrMNeT87bh95OGNyZPhcTNXj1NW7RuBCsyN/o0jlpcV8Qyq46cDfL" crossorigin="anonymous"></script>
</html>
```

Achange_password.php

```
<?php
session_start();
include "database.php";
if(!isset($_SESSION["AID"]))
{
	header("location:alogin.php");
}
?>

<!DOCTYPE HTML>
<html>
	<head>
		<title>Admin Password</title>
		<link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
<link
href="https://fonts.googleapis.com/css2?family=Roboto:wght@300;400;500&display=s
wap" rel="stylesheet">
		<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css"
rel="stylesheet"                                                integrity="sha384-
```

```
T3c6CoIi6uLrA9TneNEoa7RxnatzjcDSCmG1MXxSR1GAsXEV/Dwwykc2MPK8M2H
N" crossorigin="anonymous">
        <link rel="stylesheet" type="text/css" href="css/style.css">
    </head>
    <body>
        <div id="container">
            <div id="header" class="bg-secondary">
                <h1>E-Library Management System</h1>
            </div>
            <div id="wrapper">
                <h3 id="heading" class="text-primary">Change
Password</h3>
                <div id="center">
                <?php
                    if(isset($_POST["submit"]))
                    {
                        $sql="SELECT * from admin WHERE
APASSWORD='{$_POST["opass"]}' and AID='{$_SESSION["AID"]}'";
                        $res=$db->query($sql);
                        if($res->num_rows>0)
                        {
                            $s="update admin set
APASSWORD='{$_POST["npass"]}' WHERE AID=".$_SESSION["AID"];
```

```
                    $db->query($s);
                    echo "<p class='success'>Password Changed</p>";
                }
                else
                {
                    echo "<p class='error'>Invalid Password</p>";
                }
            }
        ?>
            <form action="<?php echo $_SERVER["PHP_SELF"];?>" method="post">
                <label>Old Password</label>
                <input type="password" name="opass" required>
                <label>New Password</label>
                <input type="password" name="npass" required>
                <button type="submit" name="submit">Update Password</button>
            </form>
        </div>
```

```
                </div>
                <div id="navi" class="bg-secondary-subtle">
                    <?php
                        include "adminsideBar.php";
                    ?>
                </div>
                <div id="footer" class="bg-dark-subtle">
                    <p>Copyright: &copy 2024. Designed and Developed by PK</p>
                </div>
            </div>
        </body>
        <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js" integrity="sha384-C6RzsynM9kWDrMNeT87bh95OGNyZPhcTNXj1NW7RuBCsyN/o0jlpcV8Qyq46cDfL" crossorigin="anonymous"></script>
</html>
```

Upload_Book.php

```
<?php
session_start();
include "database.php";
if(!isset($_SESSION["AID"]))
{
	header("location:alogin.php");
}
?>

<!DOCTYPE HTML>
<html>
	<head>
		<title>Upload Books</title>
		<link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
<link
href="https://fonts.googleapis.com/css2?family=Roboto:wght@300;400;500&display=s
wap" rel="stylesheet">
		<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css"
rel="stylesheet"                                                integrity="sha384-
```

```
T3c6CoIi6uLrA9TneNEoa7RxnatzjcDSCmG1MXxSR1GAsXEV/Dwwykc2MPK8M2H
N" crossorigin="anonymous">
        <link rel="stylesheet" type="text/css" href="css/style.css">
    </head>
    <body>
        <div id="container">
            <div id="header" class="bg-secondary">
                <h1>E-Library Management System</h1>
            </div>
            <div id="wrapper">
                <h3 id="heading" class="text-primary">Upload
Books</h3>
                <div id="center">
                <?php
                    if(isset($_POST["submit"]))
                    {
                        $target_dir="upload/";

    $target_file=$target_dir.basename($_FILES["efile"]["name"]);

    if(move_uploaded_file($_FILES["efile"]["tmp_name"],$target_file))
                        {
```

```
                                        $sql="insert into
book(BTITLE,KEYWORDS,FILE)
values('{$_POST["bname"]}','{$_POST["keys"]}','{$target_file}')";
                                        $db->query($sql);
                                        echo "<p class='success'>Book
Uploaded Success</p>";
                                    }
                                    else
                                    {
                                        echo "<p class='error'>Error In
Upload</p>";
                                    }
                                }
                            ?>
                                <form action="<?php echo
$_SERVER["PHP_SELF"];?>" method="post" enctype="multipart/form-data">
                                    <label>Book Title</label>
                                    <input type="text" name="bname"
required>
                                    <label>Keywords</label>
                                    <textarea name="keys"
required></textarea>
                                    <label>Upload File</label>
```

```
                                        <input type="file" name="efile" required>
                                        <button type="submit"
name="submit">Upload Book</button>
                                    </form>
                                </div>

                            </div>
                            <div id="navi" class="bg-secondary-subtle">
                                <?php
                                    include "adminsideBar.php";
                                ?>
                            </div>
                            <div id="footer" class="bg-dark-subtle">
                                <p>Copyright: &copy 2024. Designed and Developed by
PK</p>
                            </div>
                        </div>
                    </body>
                    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"
integrity="sha384-
C6RzsynM9kWDrMNeT87bh95OGNyZPhcTNXj1NW7RuBCsyN/o0jlpcV8Qyq46cDfL
" crossorigin="anonymous"></script>
```

```
</html>
```

View_Books.php

```
<?php
session_start();
include "database.php";
if(!isset($_SESSION["AID"]))
{
	header("location:alogin.php");
}
?>

<!DOCTYPE HTML>
<html>
	<head>
		<title>View Books</title>
		<link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
<link
href="https://fonts.googleapis.com/css2?family=Roboto:wght@300;400;500&display=s
wap" rel="stylesheet">
		<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css"
```

```
rel="stylesheet"                                                    integrity="sha384-
T3c6CoIi6uLrA9TneNEoa7RxnatzjcDSCmG1MXxSR1GAsXEV/Dwwykc2MPK8M2H
N" crossorigin="anonymous">
            <link rel="stylesheet" type="text/css" href="css/style.css">
        </head>
        <body>
            <div id="container">
                <div id="header" class="bg-secondary">
                    <h1>E-Library Management System</h1>
                </div>
                <div id="wrapper">
                    <h3 id="heading" class="text-primary">View Book
Details</h3>
                    <?php
                        $sql="SELECT * FROM book";
                        $res=$db->query($sql);
                        if($res->num_rows>0)
                        {
                            echo "<table>
                                <tr>
                                    <th>SNo</th>
                                    <th>Book Name</th>
                                    <th>Keywords</th>
```

```
                    <th>View</th>
                </tr>";
                    $i=0;
                while($row=$res-
>fetch_assoc())
                {
                    $i++;
                    echo "<tr>";
                    echo
"<td>{$i}</td>";
                    echo
"<td>{$row["BTITLE"]}</td>";
                    echo
"<td>{$row["KEYWORDS"]}</td>";
                    echo "<td><a
href='{$row["FILE"]}' target='_blank'>View</a></td>";
                    echo "</tr>";
                }
                    echo "</table>";
            }
            else
            {
```

```
                                    echo "<p class='error'>No Book Records Found!!!</p>";
                                }
                            ?>

                        </div>
                        <div id="navi" class="bg-secondary-subtle">
                            <?php
                                include "adminsideBar.php";
                            ?>
                        </div>
                        <div id="footer" class="bg-dark-subtle">
                            <p>Copyright: &copy 2024. Designed and Developed by PK</p>
                        </div>
                    </div>
        </body>
        <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js" integrity="sha384-C6RzsynM9kWDrMNeT87bh95OGNyZPhcTNXj1NW7RuBCsyN/o0jlpcV8Qyq46cDfL" crossorigin="anonymous"></script>
</html>
```

View_Comments.php

```
<?php
session_start();
include "database.php";
if(!isset($_SESSION["AID"]))
{
	header("location:alogin.php");
}
?>

<!DOCTYPE HTML>
<html>
	<head>
		<title>View Comments</title>
		<link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
<link
href="https://fonts.googleapis.com/css2?family=Roboto:wght@300;400;500&display=s
wap" rel="stylesheet">
		<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css"
rel="stylesheet"                                                integrity="sha384-
```

```
T3c6CoIi6uLrA9TneNEoa7RxnatzjcDSCmG1MXxSR1GAsXEV/Dwwykc2MPK8M2H
N" crossorigin="anonymous">
        <link rel="stylesheet" type="text/css" href="css/style.css">
    </head>
    <body>
        <div id="container">
            <div id="header" class="bg-secondary">
                <h1>E-Library Management System</h1>
            </div>
            <div id="wrapper">
                <h3 id="heading" class="text-primary">View Comments
Details</h3>
                <?php
                    $sql="SELECT
book.BTITLE,student.NAME,comment.COMM,comment.LOGGS FROM comment
INNER JOIN book ON book.BID=comment.BID INNER JOIN student ON
comment.SID=student.ID";
                    $res=$db->query($sql);
                    if($res->num_rows>0)
                    {
                        echo "<table>
                            <tr>
                                <th>SNo</th>
```

```
                <th>Book</th>
                <th>Name</th>
                <th>Comment</th>
                <th>Logs</th>
            </tr>";
                $i=0;
            while($row=$res->fetch_assoc())
            {
                $i++;
                echo "<tr>";
                echo "<td>{$i}</td>";
                echo "<td>{$row["BTITLE"]}</td>";
                echo "<td>{$row["NAME"]}</td>";
                echo "<td>{$row["COMM"]}</td>";
                echo "<td>{$row["LOGGS"]}</td>";
                echo "</tr>";
            }
```

```
                                                    echo "</table>";
                                }
                                else
                                {
                                        echo "<p class='error'>No Comment Records Found!!!</p>";
                                }
                        ?>

                </div>
                <div id="navi" class="bg-secondary-subtle">
                        <?php
                                include "adminsideBar.php";
                        ?>
                </div>
                <div id="footer" class="bg-dark-subtle">
                        <p>Copyright: &copy 2024. Designed and Developed by PK</p>
                </div>
        </div>
    </body>
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"
```

integrity="sha384-

C6RzsynM9kWDrMNeT87bh95OGNyZPhcTNXj1NW7RuBCsyN/o0jlpcV8Qyq46cDfL

" crossorigin="anonymous"></script>

</html>

View_Request.php

```
<?php
session_start();
include "database.php";
if(!isset($_SESSION["AID"]))
{
	header("location:alogin.php");
}
?>

<!DOCTYPE HTML>
<html>
	<head>
		<title>View Request</title>
		<link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
```

```
<link
href="https://fonts.googleapis.com/css2?family=Roboto:wght@300;400;500&display=s
wap" rel="stylesheet">
        <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
T3c6CoIi6uLrA9TneNEoa7RxnatzjcDSCmG1MXxSR1GAsXEV/Dwwykc2MPK8M2H
N" crossorigin="anonymous">
        <link rel="stylesheet" type="text/css" href="css/style.css">
    </head>
    <body>
        <div id="container">
            <div id="header" class="bg-secondary">
                <h1>E-Library Management System</h1>
            </div>
            <div id="wrapper">
                <h3 id="heading" class="text-primary">View Request
Details</h3>
                <?php
                    $sql="SELECT
student.NAME,request.MES,request.LOGGS from student INNER JOIN request on
student.ID=request.ID";
                    $res=$db->query($sql);
```

```
if($res->num_rows>0)
{
    echo "<table>
        <tr>
            <th>SNo</th>
            <th>Name</th>
            <th>Message</th>
            <th>Logs</th>
        </tr>";
        $i=0;
        while($row=$res->fetch_assoc())
        {
            $i++;
            echo "<tr>";
            echo "<td>{$i}</td>";
            echo "<td>{$row["NAME"]}</td>";
            echo "<td>{$row["MES"]}</td>";
            echo "<td>{$row["LOGGS"]}</td>";
```

```
                                        echo "</tr>";
                                    }
                                        echo "</table>";
                                }
                                else
                                {
                                    echo "<p class='error'>No Request Records Found!!!</p>";
                                }
                            ?>

                        </div>
                        <div id="navi" class="bg-secondary-subtle">
                            <?php
                                include "adminsideBar.php";
                            ?>
                        </div>
                        <div id="footer" class="bg-dark-subtle">
                            <p>Copyright: &copy 2024. Designed and Developed by PK</p>
                        </div>
                    </div>
                </body>
```

```
	<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"
integrity="sha384-
C6RzsynM9kWDrMNeT87bh95OGNyZPhcTNXj1NW7RuBCsyN/o0jlpcV8Qyq46cDfL
" crossorigin="anonymous"></script>
</html>
```

Ulogin.php

```
<?php
session_start();
	include "database.php";
?>
<!DOCTYPE HTML>
<html>
	<head>
		<title>User Login</title>
		<link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
<link
href="https://fonts.googleapis.com/css2?family=Roboto:wght@300;400;500&display=s
wap" rel="stylesheet">
```

```
        <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css"
rel="stylesheet"                                                integrity="sha384-
T3c6CoIi6uLrA9TneNEoa7RxnatzjcDSCmG1MXxSR1GAsXEV/Dwwykc2MPK8M2H
N" crossorigin="anonymous">
        <link rel="stylesheet" type="text/css" href="css/style.css">
    </head>
    <body>
        <div id="container">
            <div id="header" class="bg-secondary">
                <h1>E-Library Management System</h1>
            </div>
            <div id="wrapper">
                <h3    id="heading"    class="text-primary">User    Login
here</h3>
                <div id="center">
                <?php
                    if(isset($_POST["submit"]))
                    {
                        $sql="SELECT    *    FROM    student    where
NAME='{$_POST["name"]}' and PASS='{$_POST["pass"]}'";
                        $res=$db->query($sql);
                        if($res->num_rows>0)
```

```
                                        {
                                                $row=$res->fetch_assoc();
                                                $_SESSION["ID"]=$row["ID"];

        $_SESSION["NAME"]=$row["NAME"];
                                                header("location:uhome.php");
                                        }
                                        else
                                        {
                                                echo "<p class='error'>Invalid User
Details</p>";
                                        }
                                }
                        ?>
                                <form action="ulogin.php" method="post">
                                        <label>User Name</label>
                                        <input type="text" name="name" required>
                                        <label>Password</label>
                                        <input type="password" name="pass"
required>
                                        <a href="forgetPassword.php">Forget
Password</a>
```

```
                                    <button type="submit"
name="submit">Login Now</button>
                                </form>
                            </div>
                        </div>
                        <div id="navi" class="bg-secondary-subtle">
                            <?php
                                include "sideBar.php";
                            ?>
                        </div>
                        <div id="footer" class="bg-dark-subtle">
                            <p>Copyright: &copy 2024. Designed and Developed by
PK</p>
                        </div>
                </div>
        </body>
        <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"
integrity="sha384-
C6RzsynM9kWDrMNeT87bh95OGNyZPhcTNXj1NW7RuBCsyN/o0jlpcV8Qyq46cDfL
" crossorigin="anonymous"></script>
</html>
```

Search_Books.php

```
<?php
session_start();
include "database.php";
if(!isset($_SESSION["ID"]))
{
	header("location:ulogin.php");
}
?>

<!DOCTYPE HTML>
<html>
	<head>
		<title>Search Books</title>
		<link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
<link
href="https://fonts.googleapis.com/css2?family=Roboto:wght@300;400;500&display=s
wap" rel="stylesheet">
		<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css"
rel="stylesheet"                                                integrity="sha384-
```

```
T3c6CoIi6uLrA9TneNEoa7RxnatzjcDSCmG1MXxSR1GAsXEV/Dwwykc2MPK8M2H
N" crossorigin="anonymous">
        <link rel="stylesheet" type="text/css" href="css/style.css">
    </head>
    <body>
        <div id="container">
            <div id="header" class="bg-secondary">
                <h1>E-Library Management System</h1>
            </div>
            <div id="wrapper">
                <h3 id="heading" class="text-primary">Search Book</h3>
                <div id="center">

                    <form action="<?php echo
$_SERVER["PHP_SELF"];?>" method="post">
                        <label>Enter Book Name or
Keywords</label>
                        <input type="text" name="name" required>
                        <button type="submit"
name="submit">Search Now</button>
                    </form>
                </div>
                <?php
```

```
if(isset($_POST["submit"]))
{
$sql="SELECT * FROM book where BTITLE like '%{$_POST["name"]}%' or KEYWORDS like '%{$_POST["name"]}%' ";
$res=$db->query($sql);
if($res->num_rows>0)
{
echo "<table>
<tr>
<th>SNo</th>
<th>Book Name</th>
<th>Keywords</th>
<th>View</th>
<th>Comment</th>
</tr>";
$i=0;
while($row=$res->fetch_assoc())
{
$i++;
echo "<tr>";
echo "<td>{$i}</td>";
```

```
                                                    echo
"<td>{$row["BTITLE"]}</td>";
                                                    echo
"<td>{$row["KEYWORDS"]}</td>";
                                                    echo        "<td><a
href='{$row["FILE"]}' target='_blank'>View</a></td>";
                                                    echo        "<td><a
href='comment.php?id={$row["BID"]}'>Go</a></td>";
                                                    echo "</tr>";
                                                }
                                                    echo "</table>";
                                    }
                                    else
                                    {
                                        echo "<p class='error'>No Book Records
Found!!!</p>";
                                    }
                                    }
                                ?>
                            </div>
                            <div id="navi" class="bg-secondary-subtle">
                                <?php
                                    include "usersideBar.php";
```

```
                    ?>
                </div>
                <div id="footer" class="bg-dark-subtle">
                    <p>Copyright: &copy 2024. Designed and Developed by PK</p>
                </div>
            </div>
        </body>
        <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js" integrity="sha384-C6RzsynM9kWDrMNeT87bh95OGNyZPhcTNXj1NW7RuBCsyN/o0jlpcV8Qyq46cDfL" crossorigin="anonymous"></script>
</html>
```

Request.php

```
<?php
session_start();
include "database.php";
if(!isset($_SESSION["ID"]))
{
    header("location:ulogin.php");
```

```
}
?>

<!DOCTYPE HTML>
<html>
        <head>
                <title>Request</title>
                <link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
<link
href="https://fonts.googleapis.com/css2?family=Roboto:wght@300;400;500&display=s
wap" rel="stylesheet">
                <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css"
rel="stylesheet"                                                integrity="sha384-
T3c6CoIi6uLrA9TneNEoa7RxnatzjcDSCmG1MXxSR1GAsXEV/Dwwykc2MPK8M2H
N" crossorigin="anonymous">
                <link rel="stylesheet" type="text/css" href="css/style.css">
        </head>
        <body>
                <div id="container">
                        <div id="header" class="bg-secondary">
                                <h1>E-Library Management System</h1>
```

```
</div>
<div id="wrapper">
<h3 id="heading" class="text-primary">New Book Request</h3>
<div id="center">
<?php
if(isset($_POST["submit"]))
{
$sql="INSERT into request (ID,MES,LOGGS) values({$_SESSION["ID"]},'{$_POST["mess"]}',now())";
$db->query($sql);
echo "<p class='success'>Request Sent to Admin</p>";

}
?>
<form action="<?php echo $_SERVER["PHP_SELF"];?>" method="post">
<label>Message</label>
<textarea name="mess" required></textarea>
```

```
                                        <button                    type="submit"
name="submit">Send Message</button>
                                    </form>
                                </div>


                        </div>
                        <div id="navi" class="bg-secondary-subtle">
                                <?php
                                    include "usersideBar.php";
                                ?>
                        </div>
                        <div id="footer" class="bg-dark-subtle">
                                <p>Copyright: &copy 2024. Designed and Developed by
PK</p>
                        </div>
                </div>
        </body>
        <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"
integrity="sha384-
C6RzsynM9kWDrMNeT87bh95OGNyZPhcTNXj1NW7RuBCsyN/o0jlpcV8Qyq46cDfL
" crossorigin="anonymous"></script>
</html>
```

Comment.php

```
<?php
session_start();
include "database.php";
if(!isset($_SESSION["ID"]))
{
	header("location:ulogin.php");
}
?>

<!DOCTYPE HTML>
<html>
	<head>
		<title>Comments</title>
		<link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
<link
href="https://fonts.googleapis.com/css2?family=Roboto:wght@300;400;500&display=s
wap" rel="stylesheet">
		<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css"
rel="stylesheet"                                                integrity="sha384-
```

```
T3c6CoIi6uLrA9TneNEoa7RxnatzjcDSCmG1MXxSR1GAsXEV/Dwwykc2MPK8M2H
N" crossorigin="anonymous">
        <link rel="stylesheet" type="text/css" href="css/style.css">
    </head>
    <body>
        <div id="container">
            <div id="header" class="bg-secondary">
                <h1>E-Library Management System</h1>
            </div>
            <div id="wrapper">
                <h3 id="heading" class="text-primary">Send Your
Comment</h3>
                    <?php
                    if(isset($_POST["submit"]))
                    {

                            $sql="insert into
comment(BID,SID,COMM,LOGGS)
values({$_GET["id"]},{$_SESSION["ID"]},'{$_POST["mes"]}',now())";
                            $db->query($sql);


                    }
```

```
$sql="SELECT * from book where BID=".$_GET["id"];
$res=$db->query($sql);
if($res->num_rows>0)
{
    echo "<table>";
    $row=$res->fetch_assoc();
    echo "
        <tr>
            <th>Book Name</th>
<td>{$row["BTITLE"]}</td>
        </tr>
        <tr>
            <th>Keywords</th>
<td>{$row["KEYWORDS"]}</td>
        </tr>
    ";
    echo "</table>";
}
else
{
```

```
                                        echo "<p class='error'>No Books Found</p>";
                                    }
                                ?>
                            <div id="center">
                                <form action="<?php echo $_SERVER["REQUEST_URI"]; ?>" method="post">
                                    <label>Your Comments</label>
                                    <textarea name="mes" required></textarea>
                                    <button type="submit" name="submit">Post Now</button>
                                </form>

                            </div>
                            <?php
                                $sql="SELECT student.NAME,comment.COMM,comment.LOGGS FROM comment INNER JOIN student ON comment.SID=student.ID WHERE comment.BID={$_GET["id"]} ORDER BY comment.CID DESC";
                                $res=$db->query($sql);
                                if($res->num_rows>0)
                                {
                                    while($row=$res->fetch_assoc())
```

```
                                        {
                                            echo
"<p><strong>{$row["NAME"]}</strong>                                                    :
{$row["COMM"]}<i>{$row["LOGGS"]}</i></p>";
                                        }
                                    }
                                    else
                                    {
                                        echo "<p class='error'>No Comments</p>";
                                    }
                                ?>

                            </div>
                            <div id="navi" class="bg-secondary-subtle">
                                <?php
                                    include "usersideBar.php";
                                ?>
                            </div>
                            <div id="footer" class="bg-dark-subtle">
                                <p>Copyright: &copy 2024. Designed and Developed by
PK</p>
                            </div>
                        </div>
```

```
        </body>
        <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"
integrity="sha384-
C6RzsynM9kWDrMNeT87bh95OGNyZPhcTNXj1NW7RuBCsyN/o0jlpcV8Qyq46cDfL
" crossorigin="anonymous"></script>
</html>
```

ForgetPassword.php:

```
<?php
session_start();
include "database.php";

?>

<!DOCTYPE HTML>
<html>
        <head>
                <title>Forget Password</title>
                <link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
```

```
<link
href="https://fonts.googleapis.com/css2?family=Roboto:wght@300;400;500&display=s
wap" rel="stylesheet">
        <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
T3c6CoIi6uLrA9TneNEoa7RxnatzjcDSCmG1MXxSR1GAsXEV/Dwwykc2MPK8M2H
N" crossorigin="anonymous">
        <link rel="stylesheet" type="text/css" href="css/style.css">
    </head>
    <body>
        <div id="container">
            <div id="header" class="bg-secondary">
                <h1>E-Library Management System</h1>
            </div>
            <div id="wrapper">
                <h3 id="heading" class="text-primary">Forget
Password</h3>
                <div id="center">

                    <form action="<?php echo
$_SERVER["PHP_SELF"];?>" method="post">
                        <label>Enter E-Mail Id</label>
```

```
                    <input type="email" name="mail" required>
                    <button type="submit"
name="submit">Submit</button>
                </form>
            </div>
            <?php
            if(isset($_POST["submit"]))
                {
                $sql="SELECT MAIL,PASS FROM student where
MAIL = '{$_POST["mail"]}' ";
                $res=$db->query($sql);
                if($res->num_rows>0)
                {
                    echo "<table>
                            <tr>

                                <th>Mail ID</th>
                                <th>Password</th>

                            </tr>";

                            while($row=$res-
>fetch_assoc())
```

```
                                                    {

                                                        echo "<tr>";

                                                        echo
"<td>{$row["MAIL"]}</td>";
                                                        echo
"<td>{$row["PASS"]}</td>";

                                                        echo "</tr>";
                                                    }
                                                        echo "</table>";
                                        }
                                        else
                                        {
                                            echo "<p class='error'>No Records
Found!!!</p>";
                                        }
                                        }
                                ?>
                        </div>
                        <div id="navi" class="bg-secondary-subtle">
                                <?php
```

```
                    include "sideBar.php";
                ?>
            </div>
            <div id="footer" class="bg-dark-subtle">
                <p>Copyright: &copy 2024. Designed and Developed by PK</p>
            </div>
        </div>
    </body>
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js" integrity="sha384-C6RzsynM9kWDrMNeT87bh95OGNyZPhcTNXj1NW7RuBCsyN/o0jlpcV8Qyq46cDfL" crossorigin="anonymous"></script>
</html>
```

6.2 SYSTEM TESTING

INTRODUCTION

System Testing in the E-library Management System Project involves comprehensive testing of the integrated software system. It ensures the system functions correctly according to specified requirements and evaluates the end-to-end flow of the application.

White Box Testing:

White box testing analyzes the internal structures and code workings of the software. Testers design test cases to verify the correctness of the software at the code level, focusing on internal logic and structure.

Process of White Box Testing:

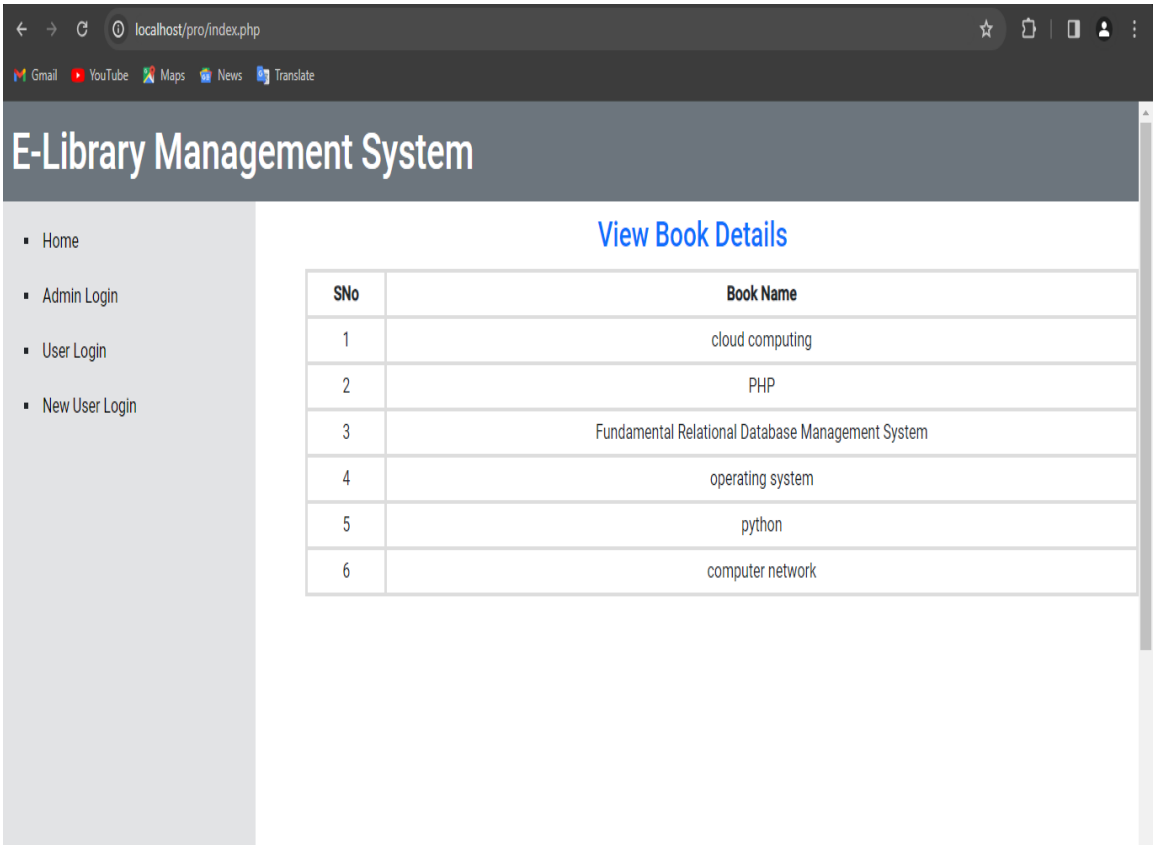
1. **Input:** Requirements, design documents, source code.
2. **Processing:** Risk analysis guides the testing process. Test cases cover the entire code.
3. **Test Planning:** Execute and repeat tests until error-free software is achieved. Results are communicated.
4. **Output:** Final report summarizes the testing process.

Black Box Testing:

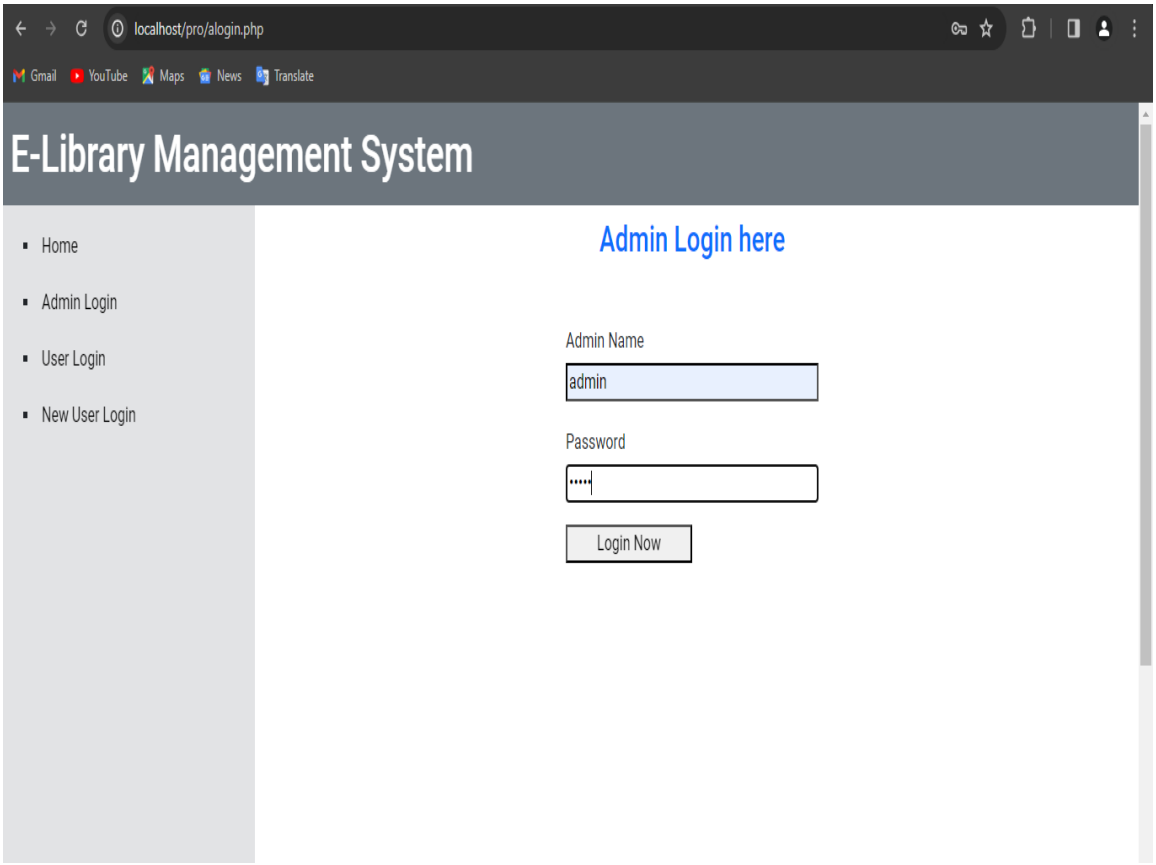
Black box testing evaluates the system's external behavior against specified requirements. It includes unit testing, validation testing, database testing, and usability testing to ensure system reliability and functionality.

6.3 SCREEN LAYOUTS

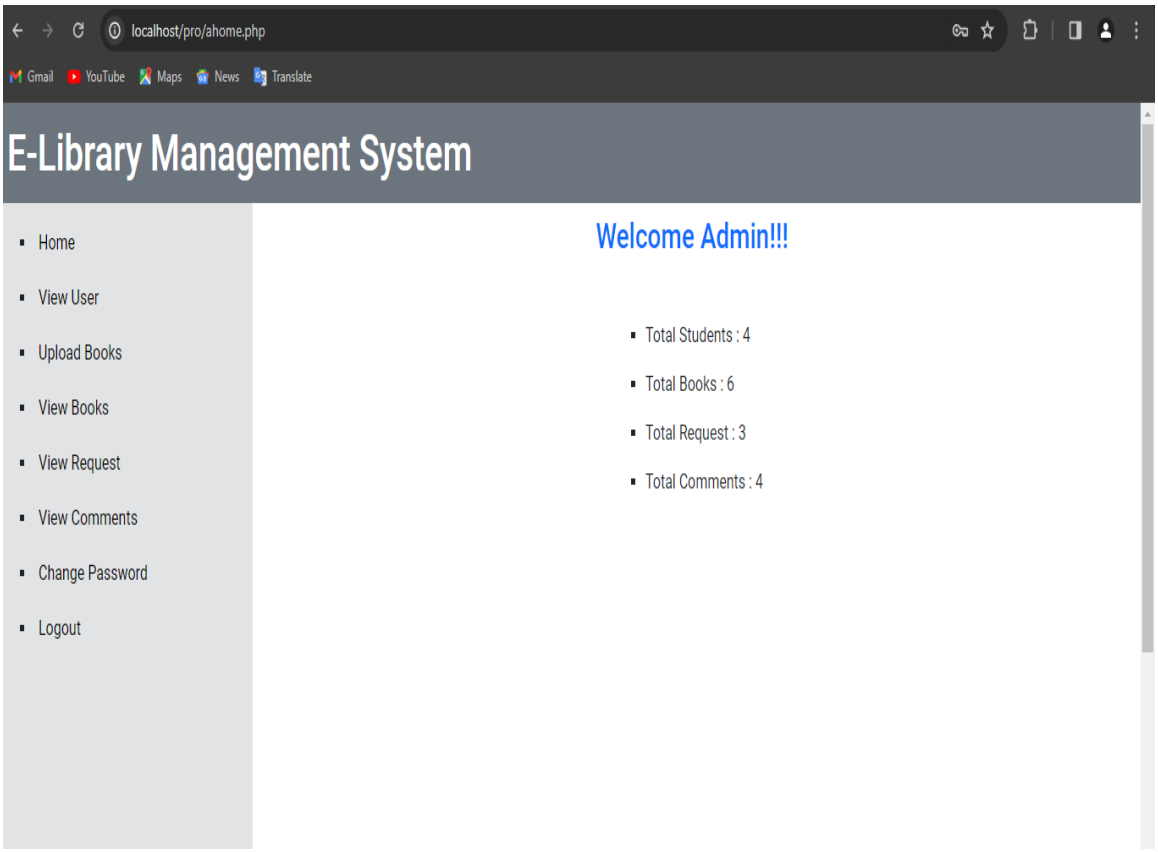
HomePage:



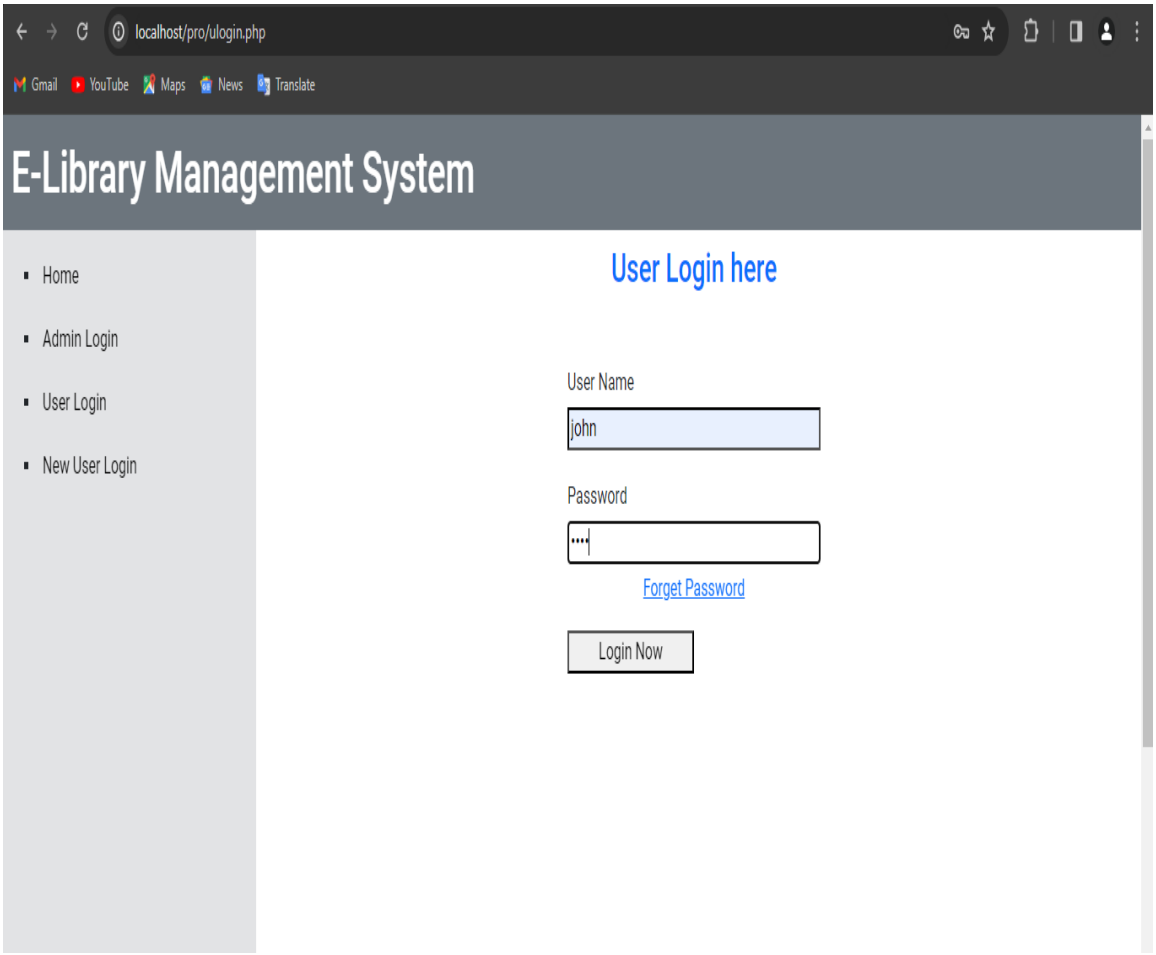
Admin Login:


localhost/pro/alogin.php
Gmail
YouTube
Maps
News
Translate
E-Library Management System
Home
Admin Login
User Login
New User Login
Admin Login here
Admin Name
admin
Password
Login Now

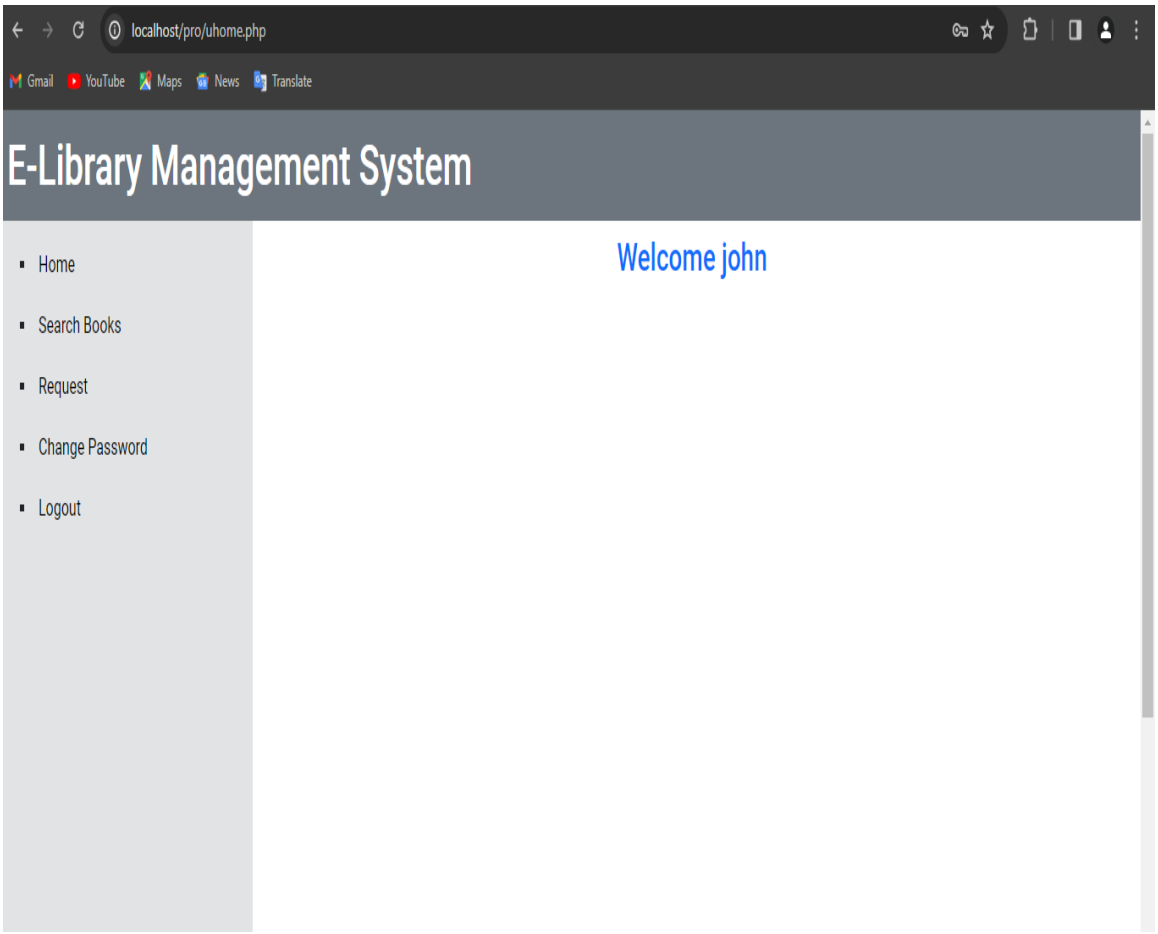
Admin Page:


localhost/pro/ahome.php
Gmail
YouTube
Maps
News
Translate
E-Library Management System
Home
View User
Upload Books
View Books
View Request
View Comments
Change Password
Logout
Welcome Admin!!!
Total Students : 4
Total Books : 6
Total Request : 3
Total Comments : 4

User Login Page:

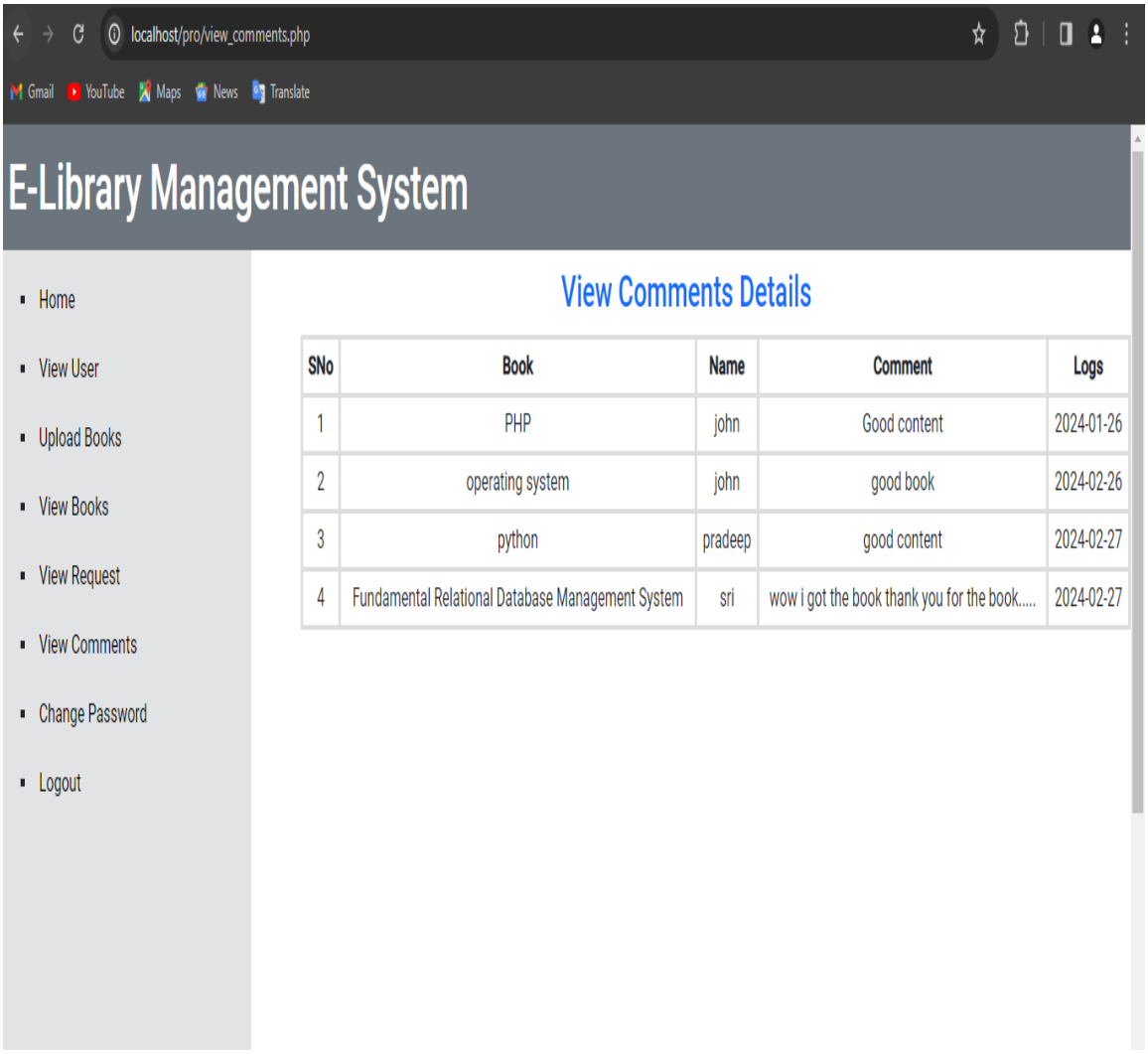


User Home Page:

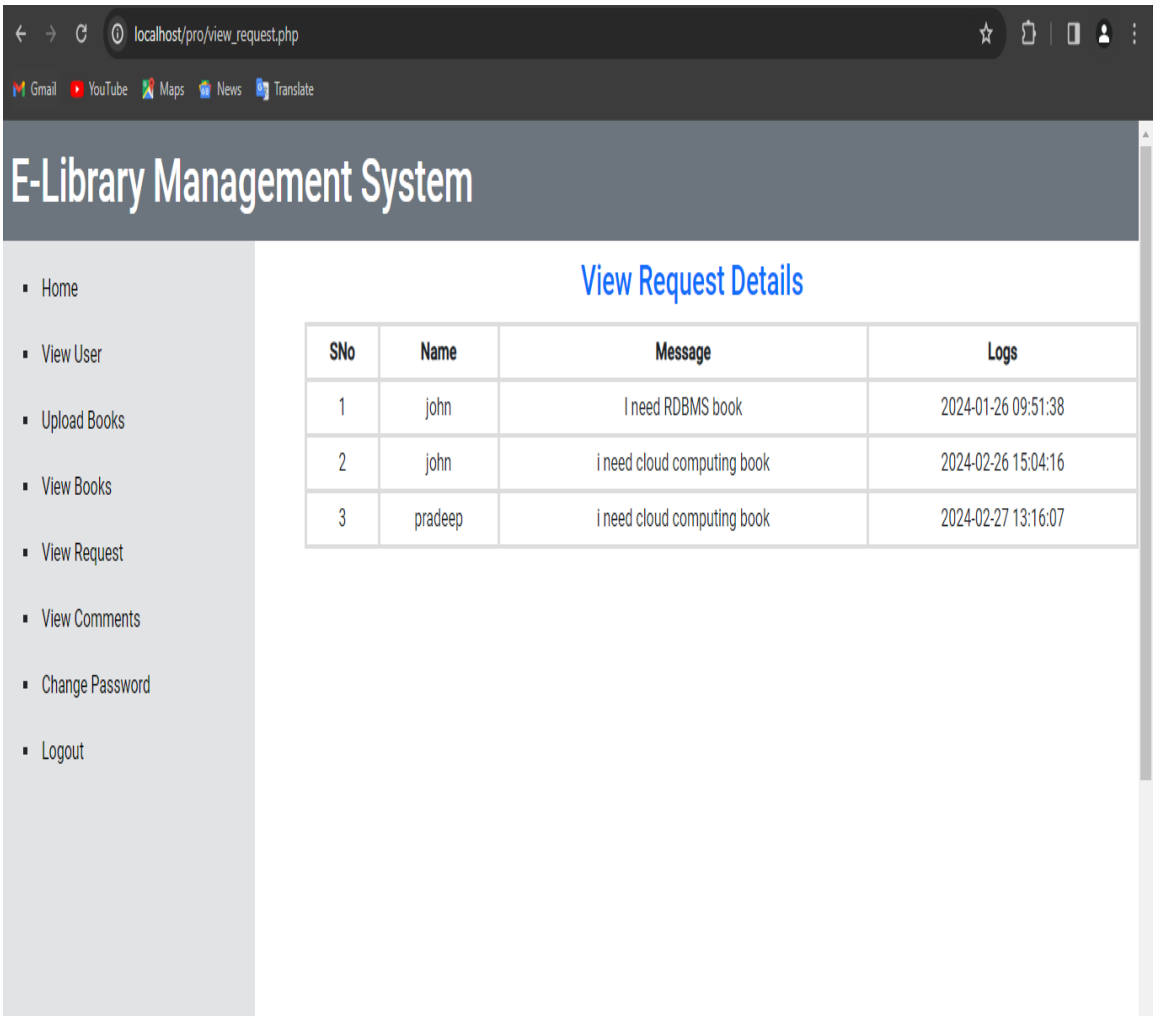


6.4.REPORTS

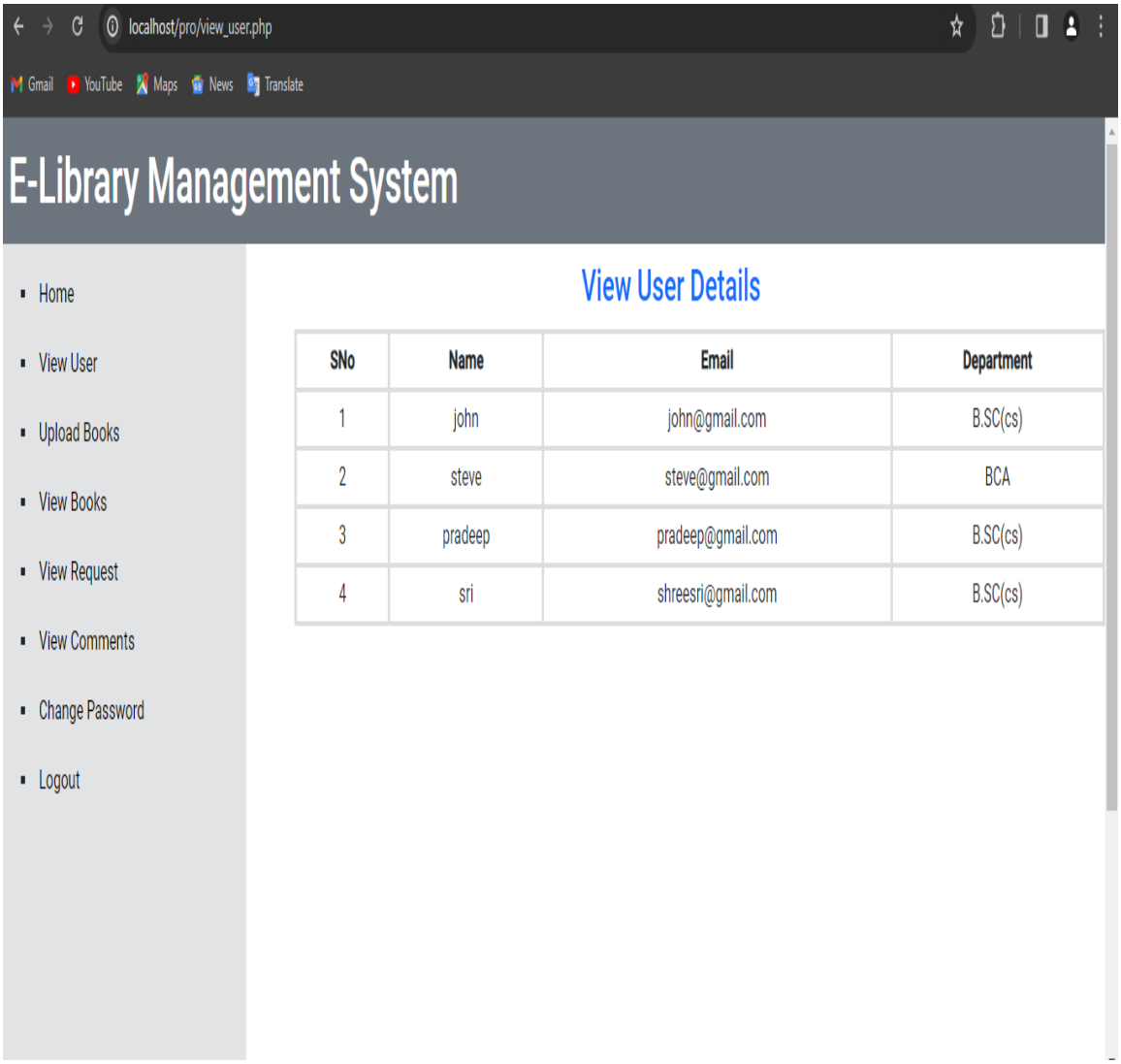
Comments:



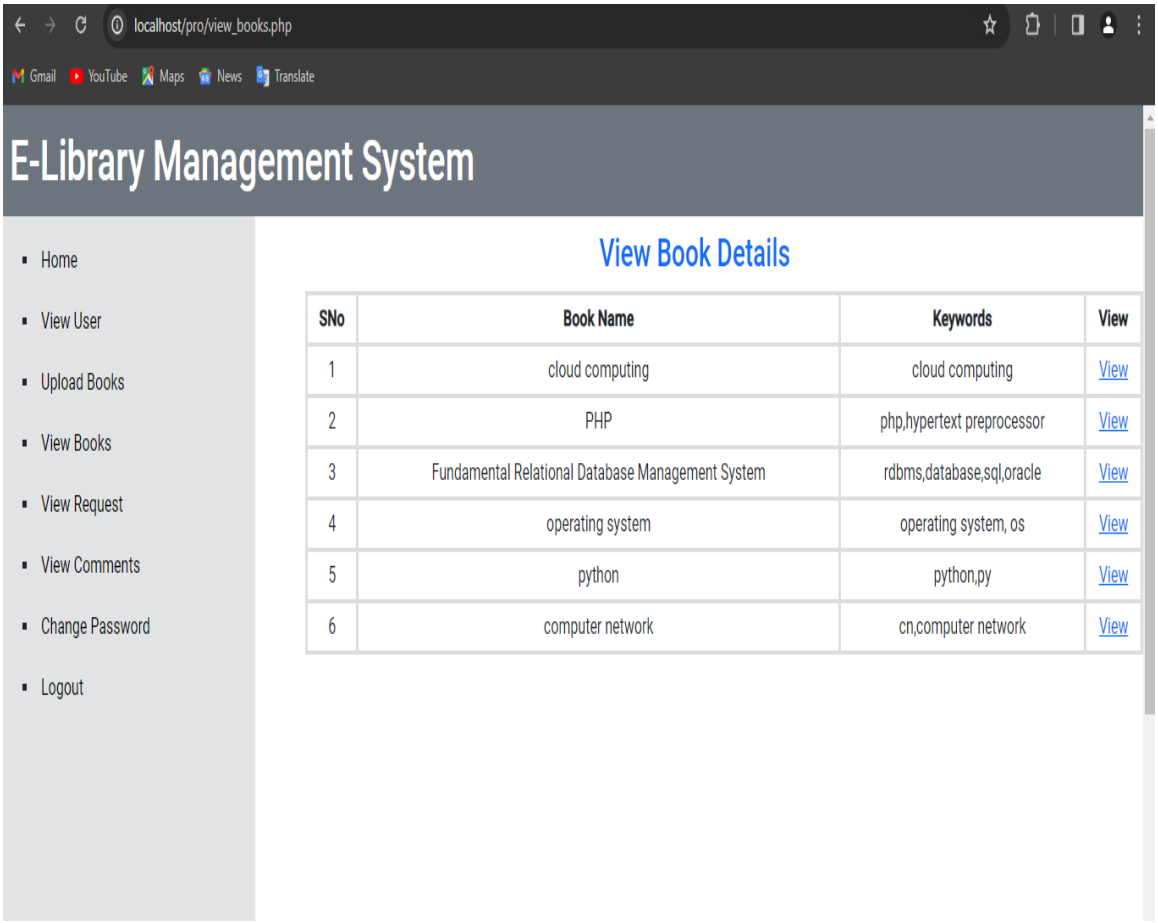
Requests:


localhost/pro/view_request.php
Gmail
YouTube
Maps
News
Translate
E-Library Management System
Home
View User
Upload Books
View Books
View Request
View Comments
Change Password
Logout
View Request Details
SNo
Name
Message
Logs
1
john
I need RDBMS book
2024-01-26 09:51:38
2
john
i need cloud computing book
2024-02-26 15:04:16
3
pradeep
i need cloud computing book
2024-02-27 13:16:07

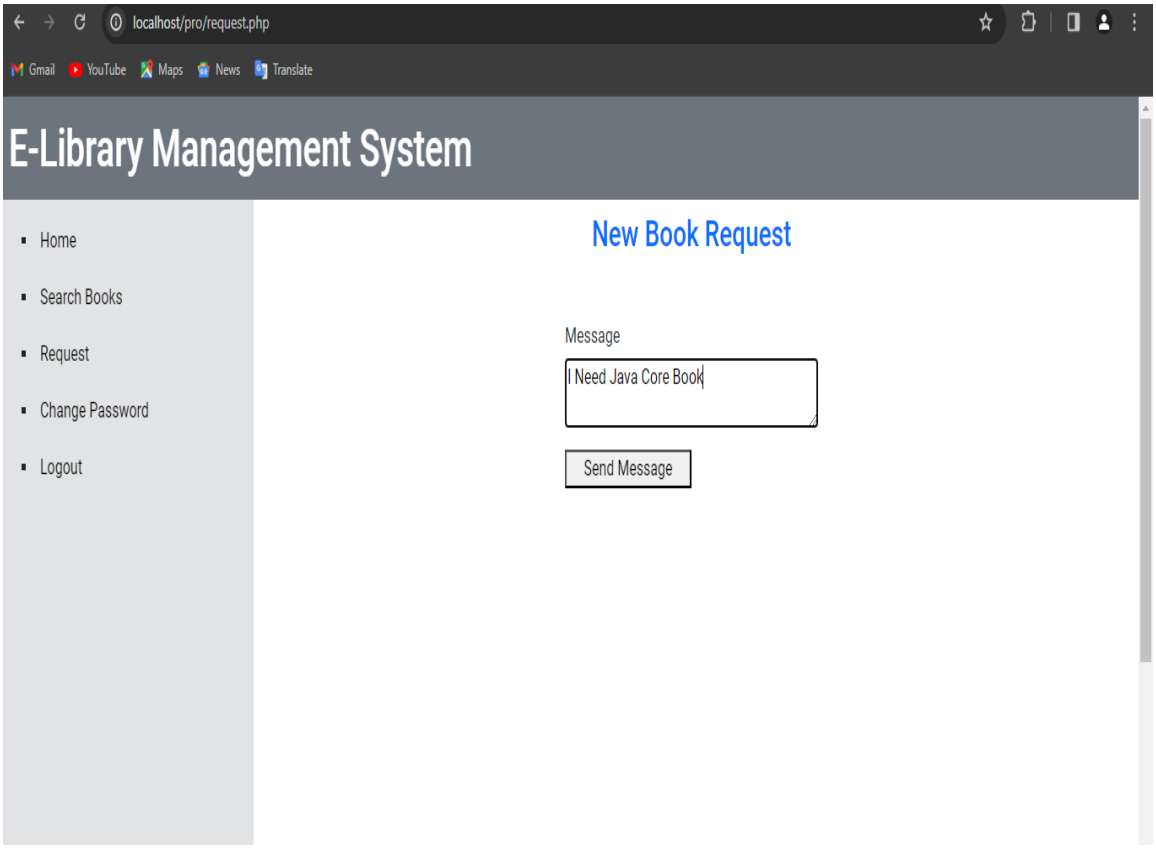
User Details:



Book Details:



Book Request:



FUTURE ENHANCEMENTS

Chapter 7

7. FUTURE ENHANCEMENTS

Potential enhancements to the system include:

In E-library Management System admin can handle books details, student details, and comments and request details. User can search and read the books they need. Also, comments and requests for books can be sent to admin. This E-library Management System, which is used only on desktop, can be converted into a responsive web page that can be used on all types of screens in the future.

CONCLUSION

Chapter 8

CONCLUSION

The E-library Management System offers a modern and efficient solution to library management challenges. By digitizing library operations and providing online access to resources, the system enhances accessibility, efficiency, and user satisfaction.

REFERENCES

Chapter 9

REFERENCES

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2. **WWW.YOUTUBE.COM**
3. **WWW.CHAT.OPENAI.COM**
4. **WWW.PHP.NET**