

INFORMATION TECHNOLOGY

LIBRARY MANAGEMENT SYSTEM

23ITR201 & FUNDAMENTALS OF WEB DESIGN

**MINI PROJECT
REPORT**

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ABSTRACT

Library management sysstem is a project which aim 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 management system like requesting box (which book is needed).It also has a facility of admin login through which the admin can monitor the whole system

The Library Management System (LMS) is an essential tool for modern libraries to efficiently manage their resources and provide effective services to patrons. This abstract presents an overview of the key functionalities and benefits of an LMS.

The LMS encompasses various modules such as cataloging, circulation, patron management, acquisitions, and reporting, all integrated into a cohesive platform. Through the cataloging module, librarians can systematically organize and classify library materials, making them easily searchable and accessible to users. The circulation module facilitates smooth borrowing and returning processes, ensuring accurate tracking of loaned items and managing fines or penalties effectively.

Patron management functionalities enable libraries to maintain comprehensive records of users, including their borrowing history and preferences, allowing for personalized services and targeted outreach. The acquisitions module assists in acquiring new materials, managing budgets, and tracking orders, enhancing collection development efforts.

Moreover, the LMS provides robust reporting capabilities, generating insights into library usage, circulation trends, and resource availability, aiding in data-driven decision-making and strategic planning.

Overall, the Library Management System optimizes library operations, enhances user experience, and enables libraries to adapt to evolving technological trends, thereby playing a pivotal role in fostering knowledge dissemination and lifelong learning in the digital age.

INTRODUCTION

1.1. Objective

The project aim and objective that will be achieved after completion of this project are discussed in the sub chapter .The aims and objectives are as follows;

- Student login page where student can find books issued by him/her and date of return.
- A search column to search availability of books.
- An admin login page where admin can see important suggestion regarding books.
- Request box for any books are wanted by students .
- New arrival page for help saw what are the books newly added.
- Contact page for any issue through this contact form enter your issue

2. REQUIREMENTS SPECIFICATION

2.1. Requirements

For creating a digital library I used two application ,there are,

- HTML
- CSS

1. Accessibility and Usability:

- The system should be accessible to users with disabilities, complying with accessibility standards such as WCAG (Web Content Accessibility Guidelines).
- User interfaces should be intuitive, with clear navigation and responsive design for use on different devices.

2. Security and Data Protection:

- The system should implement security measures to protect sensitive user data, including encryption of passwords and secure transmission of data.
- Regular backups of the system database should be performed to prevent data loss.

3. Support and Maintenance:

- The system should have a help desk or support team to assist users with technical issues and queries.
- Regular updates and maintenance should be carried out to ensure system reliability and performance.

4. Compliance and Standards:

- The system should comply with relevant laws and regulations governing library operations, such as copyright laws and privacy regulations.
- It should adhere to industry standards and best practices in library management systems.

3. DETAILED DESIGN

HOME PAGE

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
<title>Digital Library</title>
```

```
<style>
```

```
body {
```

```
    font-family: Arial, sans-serif;
```

```
    background-image: url('https://encrypted-  
tbn0.gstatic.com/images?q=tbn:ANd9GcQ0jWcj0m4uCpUqpoVbFUz05m9Vj5qeTg_p4w&s');
```

```
    background-repeat: no-repeat;
```

```
    background-size: cover;
```

```
    margin: 0;
```

```
    padding: 0;
```

```
}
```

```
.container {
```

```
    max-width: 1200px;
```

```
    margin: 0 auto;
```

```
    padding: 20px;
```

```
}
```

```
header {  
    background-color: #333;  
    color: #fff;  
    padding: 10px 0;  
    text-align: center;  
}  
  
nav {  
    background-color: #555;  
    padding: 10px 0;  
    text-align: center;  
}  
  
nav a {  
    color: #fff;  
    text-decoration: none;  
    padding: 0 10px;  
}  
  
nav a:hover {  
    text-decoration: underline;  
}  
  
.content {  
    background-color: #b91889;  
    padding: 20px;  
    margin-top: 20px;
```

```
}
```

```
footer {
```

```
    background-color: #333;
```

```
    color: #fff;
```

```
    text-align: center;
```

```
    padding: 10px 0;
```

```
    position: fixed;
```

```
    bottom: 0;
```

```
    width: 100%;
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
    <header>
```

```
        <h1>Digital Library</h1>
```

```
    </header>
```

```
    <nav>
```

```
        <a>Home</a>
```

```
        <a href="C:\Users\sanga\AppData\Local\Temp\5ac9e0f2-52d4-411a-ab88-89e6d4b2e7f6_Online-Library-Management-System-PHP.zip.7f6\Online-Library-Management-System-PHP\library\studentloginnew.html">student</a>
```

```
        <a href="C:\Users\sanga\AppData\Local\Temp\5ac9e0f2-52d4-411a-ab88-89e6d4b2e7f6_Online-Library-Management-System-PHP.zip.7f6\Online-Library-Management-System-PHP\library\0.html">admin</a>
```


[book](C:\Users\sanga\AppData\Local\Temp\5ac9e0f2-52d4-411a-ab88-89e6d4b2e7f6_Online-Library-Management-System-PHP.zip.7f6\Online-Library-Management-System-PHP\library\gallery.html)

[New Arrivals](C:\Users\sanga\AppData\Local\Temp\5ac9e0f2-52d4-411a-ab88-89e6d4b2e7f6_Online-Library-Management-System-PHP.zip.7f6\Online-Library-Management-System-PHP\library\newarrival.html)

[Contact](C:\Users\sanga\AppData\Local\Temp\5ac9e0f2-52d4-411a-ab88-89e6d4b2e7f6_Online-Library-Management-System-PHP.zip.7f6\Online-Library-Management-System-PHP\library\contactlib.html)

[requestbox](C:\Users\sanga\AppData\Local\Temp\5ac9e0f2-52d4-411a-ab88-89e6d4b2e7f6_Online-Library-Management-System-PHP.zip.7f6\Online-Library-Management-System-PHP\library\requestbox.html)

Welcome to Our Digital Library

Explore our vast collection of books, journals, and magazines.

Use the search bar above to find your desired resources.

© 2024 Digital Library. All rights reserved.

STUDENT LOGIN:

```
<html>
```

```
<head>
```

```
<title>STUDENT LOGIN</title>
```

```
<style>
```

```
body{
```

```
    background-image:url("https://encrypted-  
tbn0.gstatic.com/images?q=tbn:ANd9GcRJiKubAnanTuVsk7i2wdOPi6nU8QeB2uPguA&s") ;
```

```
    background-repeat: no-repeat;
```

```
    background-size: cover;
```

```
    background-color: rgb(117, 117, 201);
```

```
}
```

```
    form{
```

```
        padding: 25px 25px;
```

```
        background-color: rgb(198, 168, 226);
```

```
        margin: 20px;
```

```
        width: 540px;
```

```
        margin-left: 400px;
```

```
        border-radius: 10px;
```

```
}
```

```
.logo {
```

```
    position: fixed; /* Position the logo relative to the viewport */
```

```
    top: 0; /* Position the logo at the top */
```

```
left: 0; /* Position the logo at the left */
```

```
margin: 20px; /* Add some margin for spacing */
```

```
z-index: 1000; /* Set a high z-index to ensure the logo appears above other content */
```

```
}
```

```
.logo img {
```

```
width: 100px; /* Set the width of the logo */
```

```
height: auto; /* Automatically adjust the height to maintain aspect ratio */
```

```
}
```

```
h1{
```

```
text-align: center;
```

```
background-color:bisque;
```

```
padding:35px;
```

```
font-family: Cambria, Cochin, Georgia, Times, 'Times New Roman', serif;
```

```
}
```

```
</style>
```

```
<head>
```

```
<body >
```

```
<header><div class="logo">
```

```

```

```
</header></div>
```

```
<h1> STUDIUS ME</h1>
```

```
<form>
```

```
<h2>Create your Library Account </h2>
```

```

<label for="name">NAME:</label>

<input type="text" id="name" placeholder="Enter your full name"><br><br>

<label for="gender" >GENDER:</label>

    <input type="radio" id="gen" name="gen">Female

    <input type="radio" id="gen" name="gen">Male<br><br>

<label for="email" >USER ID:</label>

<input type:"email" id="email" placeholder="enter valid id"><br><br>

<label for="pawd">PASSWORD:</label>

<input type:"PASSWORD" id="pawd"><br><br>

<label for="pawd"> CONFIRM PASSWORD:</label>

<input type:"PASSWORD" id="pawd"><br><br>

<input type="checkbox">I agree to the terms of service and privacy policy<br><br>

<center><input type="submit"></center>

</form>

</body>

</html>

```

ADMIN LOGIN:

```

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

```

<title>Library Management Admin Login</title>

<style>

body {

font-family: Arial, sans-serif;

background-color: #df7373;

}

.container {

max-width: 400px;

margin: 100px auto;

padding: 20px;

background-color: #fff;

border-radius: 8px;

box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);

}

h2 {

text-align: center;

}

input[type="text"],

input[type="password"],

input[type="submit"] {

width: 100%;

padding: 10px;

margin: 10px 0;

```
border: 1px solid #ccc;

border-radius: 4px;

box-sizing: border-box;

}

input[type="submit"] {

background-color: #4caf50;

color: #fff;

cursor: pointer;

}

input[type="submit"]:hover {

background-color: #45a049;

}

h1{

font-family: Cambria, Cochin, Georgia, Times, 'Times New Roman', serif;

padding: 20px;

text-align: center;

}

</style>

</head>

<body>

<h1 style="background-color: #4caf50;"> STUDIUS ME</h1>

<center>
```

```


</center>

<div class="container">

  <h2>Admin Login</h2>

  <form action="admin_login.php" method="post">

    <input type="text" name="username" placeholder="Username" required>

    <input type="password" name="password" placeholder="Password" required>

    <input type="submit" value="Login">

  </form>

</div>

</body>

</html>
```

REQUEST BOX:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Book Request Form</title>

  <style>

    /* Add your CSS styling here */
```

```
body {  
  
    background-image: url('https://encrypted-  
tbn0.gstatic.com/images?q=tbn:ANd9GcQYw4duewbGdWeOJUOgOQieBRnGQJK0avr1Cw&s');  
  
    background-repeat: no-repeat;  
  
    background-size: cover;  
  
    font-family: Arial, sans-serif;  
  
}  
  
h1{  
  
    background-color: darksalmon;  
  
    text-align: center;  
  
}  
  
form {  
  
    background-color: lemonchiffon;  
  
    max-width: 600px;  
  
    margin-left: 500px;  
  
    margin-top: 60px;  
  
    padding: 10px;  
  
}  
  
input[type=text], select {  
  
    width: 100%;  
  
    padding: 12px 20px;  
  
    margin: 8px 0;  
  
    display: inline-block;
```



```
border: 1px solid #ccc;

border-radius: 4px;

box-sizing: border-box;

}

input[type=submit] {

width: 100%;

background-color: #4CAF50;

color: white;

padding: 14px 20px;

margin: 8px 0;

border: none;

border-radius: 4px;

cursor: pointer;

}
```

```
input[type=submit]:hover {

background-color: #45a049;

}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h1>BOOK REQUEST FORM</h1>
```

```
<form action="/submit_request" method="post">
```

```
<label for="book_title">Book Title:</label>
```

```
<input type="text" id="book_title" name="book_title" required
<label for="author">Author:</label>
<input type="text" id="author" name="author" required>
<label for="isbn">ISBN:</label>
<input type="text" id="isbn" name="isbn">
<label for="edition">Edition:</label>
<input type="text" id="edition" name="edition">
<label for="reason">Reason for Request:</label>
<textarea id="reason" name="reason" rows="4" required></textarea>
<input type="submit" value="Submit Request">
</form>
</body>
</html>
```

NEW ARRIVAL:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>New Arrival Books - Digital Library</title>
  <style>
```

```
body {

    font-family: Arial, sans-serif;

    background-image:url('https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcSpwQ1eiQos2fw-
iXHwrzFiUcqCTqEvoqp_A&s');

    background-repeat: no-repeat;

    background-size: cover;

    margin: 0;

    padding: 0;

}

.container {

    max-width: 800px;

    margin: 50px auto;

    padding: 20px;

    background-color: lightsteelblue;

    border-radius: 8px;

    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);

}

h1 {

    text-align: center;

}

.book {

    border: 1px solid #2106a8;

    padding: 20px;

    margin-bottom: 20px;

}
```

```
    border-radius: 4px;
  }

.book img {
    max-width: 100%;
    height: auto;
    display: block;
    margin: 0 auto;
}

.book h2 {
    margin-top: 10px;
    text-align: center;
}

.book p {
    margin-top: 10px;
    text-align: center;
}

</style>

</head>

<body>

<div class="container">

  <h1>New Arrival Books</h1>

  <div class="book">
```



Book Title 1

Author: Hendry A Kesser

Published: January 1, 2024

Description: This book is a non-technical introduction to the world of AI and covers how to distinguish AI hype from reality, how algorithms learn and work, the role of data in AI, and practical examples of AI in action.

book



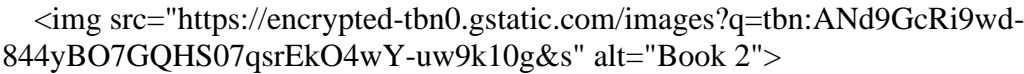
Book Title 2

Author: Pratheep Mathur

Published: February 1, 2024

Description: Information technology is responsible for such a large portion of our workforce, business operations and personal access to information that it comprises much of our daily activities.

book



Book Title 3

Author: Varun Gor

Published: march 5, 2024

Description: the process of planning, conceptualizing, and implementing the plan for designing a website in a way that is functional and offers a good user experience.

book

```

```

```
<h2>Book Title 4</h2>
```

```
<p>Author: Yashavant Kanetkar</p>
```

```
<p>Published: april 23, 2020</p>
```

```
<p>Description: these books may not be the best way to learn data structures and algorithms. The more we  
write code, the more we learn. Although, if you are looking for some good reference books, check out five  
books to brush up on your concepts on DSA.</p>
```

```
</div>
```

```
<div class="book">
```

```

```

```
<h2>Book Title 5</h2>
```

```
<p>Author:Eric A Mayer </p>
```

```
<p>Published: march 5, 2024</p>
```

```
<p>Description: Its basic rules and syntax are simple, and you could start styling web pages after a single  
day of learning (if you're already familiar with HTML). It may take longer to learn its more advanced  
features, but once you do, the same rules apply</p>
```

```
</div>
```

```
</div>
```

```
</body>
```

```
</html>
```

REQUEST BOX:

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
<title>Book Request Form</title>
```

```
<style>
```

```
/* Add your CSS styling here */
```

```
body {
```

```
    background-image: url('https://encrypted-  
tbn0.gstatic.com/images?q=tbn:ANd9GcQYw4duewbGdWeOJUOgOQieBRnGQJK0avr1Cw&s');
```

```
    background-repeat: no-repeat;
```

```
    background-size: cover;
```

```
    font-family: Arial, sans-serif;
```

```
}
```

```
h1{
```

```
    background-color: darksalmon;
```

```
    text-align: center;
```

```
}
```

```
form {
```

```
    background-color: lemonchiffon;
```

```
    max-width: 600px;
```

```
    margin-left: 500px;
```

```
    margin-top: 60px;
```

```
    padding: 10px;
```

```
}  
  
input[type=text], select {  
    width: 100%;  
    padding: 12px 20px;  
    margin: 8px 0;  
    display: inline-block;  
    border: 1px solid #ccc;  
    border-radius: 4px;  
    box-sizing: border-box;  
}  
  
input[type=submit] {  
    width: 100%;  
    background-color: #4CAF50;  
    color: white;  
    padding: 14px 20px;  
    margin: 8px 0;  
    border: none;  
    border-radius: 4px;  
    cursor: pointer;  
}  
  
input[type=submit]:hover {  
    background-color: #45a049;  
}
```



```
</style>

</head>

<body>

  <h1>BOOK REQUEST FORM</h1>

  <form action="/submit_request" method="post">

    <label for="book_title">Book Title:</label>

    <input type="text" id="book_title" name="book_title" required>

    <label for="author">Author:</label>

    <input type="text" id="author" name="author" required>

    <label for="isbn">ISBN:</label>

    <input type="text" id="isbn" name="isbn">

    <label for="edition">Edition:</label>

    <input type="text" id="edition" name="edition">

    <label for="reason">Reason for Request:</label>

    <textarea id="reason" name="reason" rows="4" required></textarea>

    <input type="submit" value="Submit Request">

  </form>

</body>

</html>
```

CONTACT PAGE:

```
<!DOCTYPE html>
```

```
<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Contact Us - Digital Library</title>

  <style>

    body {

      font-family: Arial, sans-serif;

      background-image: url('data:image/jpeg;base64,/9j/sthubJMAEZmdmLRf5uuXJJZlbeLP/Z');

      background-repeat: no-repeat;

      background-size: cover;

      margin: 0;

      padding: 0;

    }

    .container {

      max-width: 800px;

      margin: 50px auto;

      padding: 20px;

      background-color: #fff;

      border-radius: 8px;

      box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);

    }

    h1 {
```

```
    background-color: #4caf50;

    text-align: center;

}

.contact-form {

    margin-top: 30px;

}

.contact-form label {

    display: block;

    margin-bottom: 10px;

}

.contact-form input[type="text"],

.contact-form input[type="email"],

.contact-form textarea {

    width: 100%;

    padding: 10px;

    margin-bottom: 20px;

    border: 1px solid #ccc;

    border-radius: 4px;

    box-sizing: border-box;

}

.contact-form textarea {

    height: 150px;

}
```

```
.contact-form input[type="submit"] {  
    background-color: #4caf50;  
    color: #fff;  
    border: none;  
    border-radius: 4px;  
    padding: 10px 20px;  
    cursor: pointer;  
}  
  
.contact-form input[type="submit"]:hover {  
    background-color: #45a049;  
}  
  
</style>  
  
</head>  
  
<body>  
    <h1>Contact Us</h1>  
    <div class="container">  
        <div class="contact-form">  
            <form action="#" method="post">  
                <label for="name">Your Name:</label>  
                <input type="text" id="name" name="name" required>  
                <label for="email">Your Email:</label>  
                <input type="email" id="email" name="email" required>  
                <label for="message">Message:</label>
```

```
<textarea id="message" name="message" required></textarea>
```

```
<input type="submit" value="Submit">
```

```
</form>
```

```
</div>
```

```
</div>
```

```
</body>
```

```
</html>
```

BOOKS PAGE:

```
<html>
```

```
<head>
```

```
<title>search book</title>
```

```
<style>
```

```
div{
```

```
    background-color: black;
```

```
    padding:20px;
```

```
    flex-wrap: wrap;
```

```
    flex-direction: row;
```

```
    justify-content:space-between;
```

```
}
```

```
H1{
```

```
    padding: 35px;
```

```
    background-color:blanchedalmond;
```

```
    text-decoration:underline;
```

```
        text-align: center;

        color: rgb(123, 10, 10);

    }

    body{

        background-color: rgb(158, 30, 111);

    }

</style>

</head>

<body>

    <h1>BOOK GALLERY</h1>

    <div>

        
```

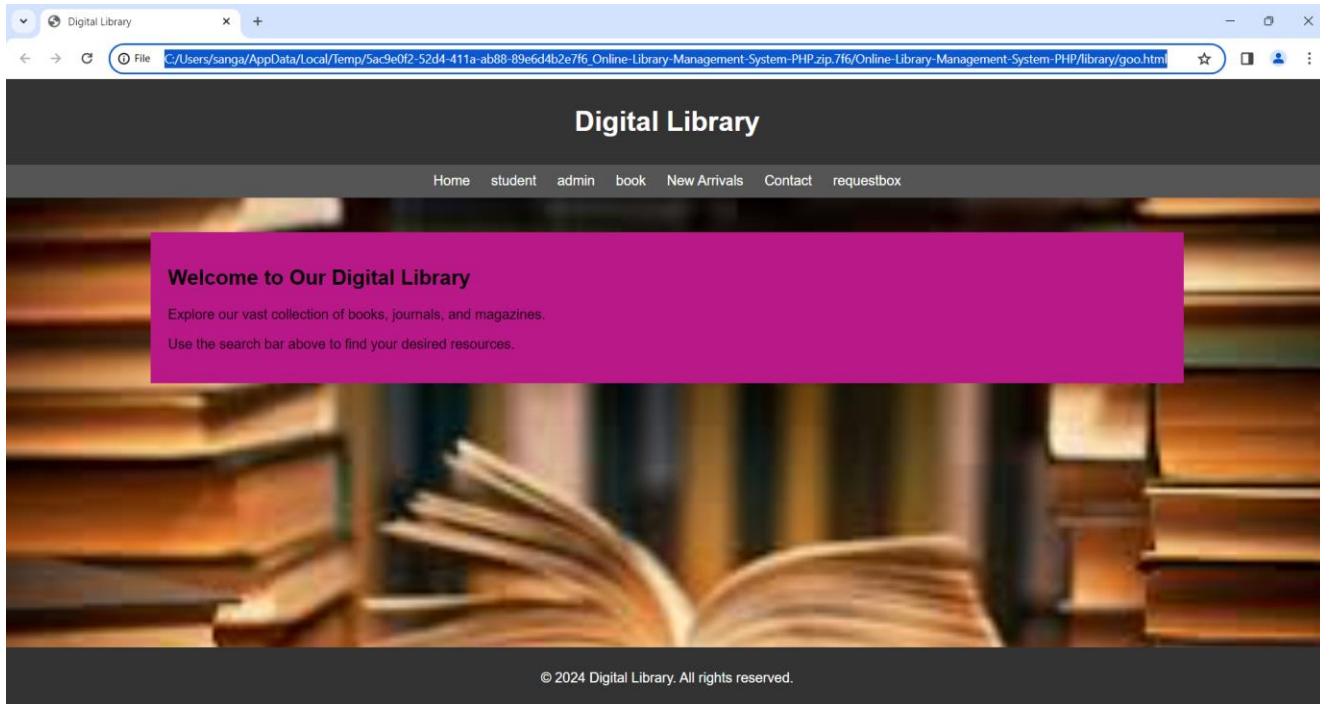

</div>

</body>

</html>

PROJECT IMPLEMENTATION:

Home Page:



Student login page:

The screenshot shows a web browser window with the title 'STUDENT LOGIN'. The address bar displays a local file path. The website has a light orange header with a logo on the left and the title 'STUDIOUS ME' on the right. The main content area features a large image of a stack of books with a purple overlay box containing the text: 'Create your Library Account'. The form includes the following fields: 'NAME: Enter your full name', 'GENDER: Female Male', 'USER ID: enter valid id', 'PASSWORD:', and 'CONFIRM PASSWORD:'. There is a checkbox for 'I agree to the terms of service and privacy policy' and a 'Submit' button.

Admin login page:

The screenshot shows a web browser window with the address bar displaying a local file path. The page has a green header with the text "STUDIUS ME". Below the header is a large red rectangular area. In the center of this red area is a white square containing a blue circular icon with a person silhouette and the word "ADMIN" underneath. Below this icon is a white rectangular box titled "Admin Login". Inside this box are two input fields: "Username" and "Password", followed by a green "Login" button.

STUDIUS ME

ADMIN

Admin Login

Username

Password

Login

New arrival books:

The screenshot shows a web browser window with the address bar displaying a local file path. The page has a dark background with a blurred image of bookshelves. In the center is a light blue rectangular area with the title "New Arrival Books". Below the title is a book cover for "THE AGE OF AI" by Henry A. Kissinger, Eric Schmidt, and Daniel Huttenlocher. Below the book cover is the text "Book Title 1", "Author: Hendry A Kesser", and "Published: January 1, 2024". Below this is a description: "Description: This book is a non-technical introduction to the world of AI and covers how to distinguish AI hype from reality, how algorithms learn and work, the role of data in AI, and practical examples of AI in action." Below the description is a small image of a book cover.

New Arrival Books

THE AGE OF AI
And Our Human Future
Henry A. Kissinger
Eric Schmidt
Daniel Huttenlocher

Book Title 1

Author: Hendry A Kesser

Published: January 1, 2024

Description: This book is a non-technical introduction to the world of AI and covers how to distinguish AI hype from reality, how algorithms learn and work, the role of data in AI, and practical examples of AI in action.

Book request box:

Book Request Form

File: C:/Users/sanga/AppData/Local/Temp/5ac9e0f2-52d4-411a-ab88-89e6d4b2e7f6_Online-Library-Management-System-PHP.zip.7f6/Online-Library-Management-System-PHP/library/requestbox.ht

BOOK REQUEST FORM

Book Title:

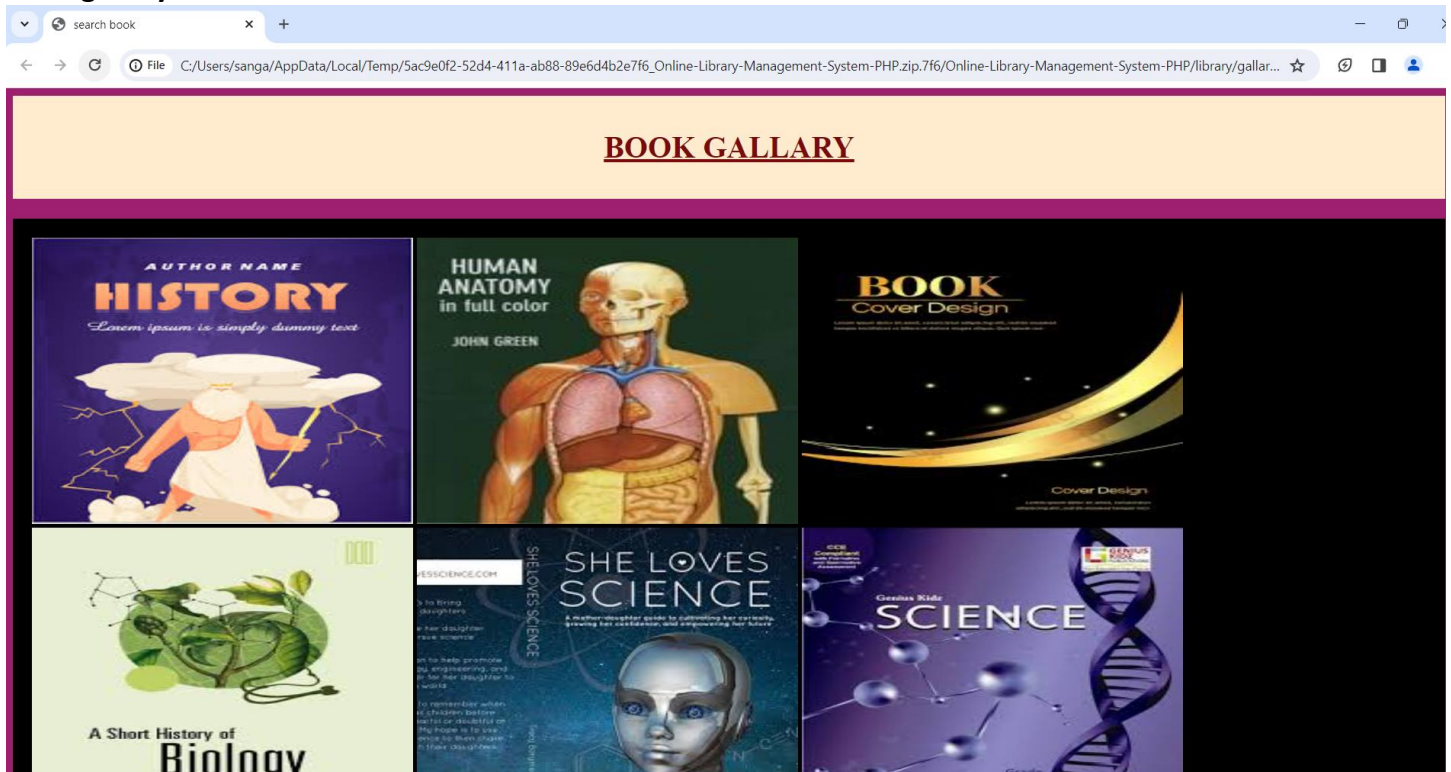
Author:

ISBN:

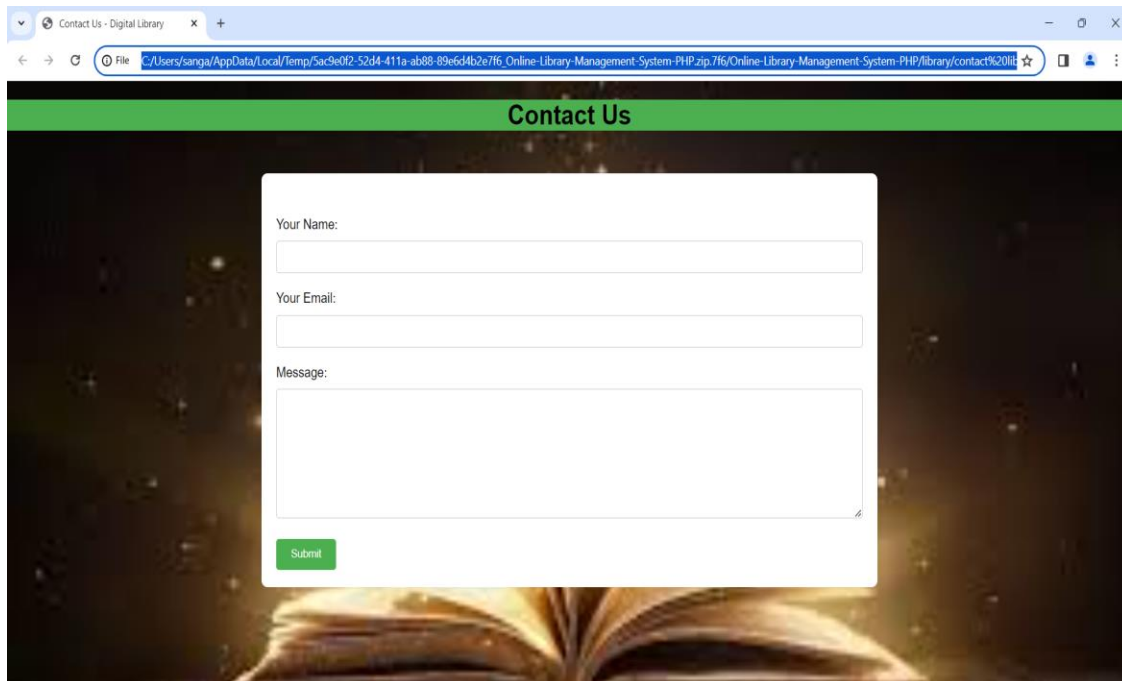
Edition:

Reason for Request:

Book gallery:



Contact page:



Contact Us - Digital Library

File C:/Users/sanga/AppData/Local/Temp/Sac9e02-52d4-411a-ab88-89e6d4b2e7f6/Online-Library-Management-System-PHP.zip/7f6/Online-Library-Management-System-PHP/library/contact%20lit

Contact Us

Your Name:

Your Email:

Message:

Submit

4. CONCLUSION

In conclusion, the implementation of a robust library management system offers numerous benefits, streamlining operations, enhancing user experience, and optimizing resource utilization. Through effective organization, automation, and integration of technologies, such a system not only facilitates efficient cataloging and retrieval of resources but also fosters a dynamic learning environment. With features tailored to the needs of both library staff and patrons, it promotes accessibility, engagement, and collaboration while ensuring the seamless administration of library services. Ultimately, investing in a modern library management system not only modernizes traditional library practices but also empowers libraries to adapt and thrive in an increasingly digital age.