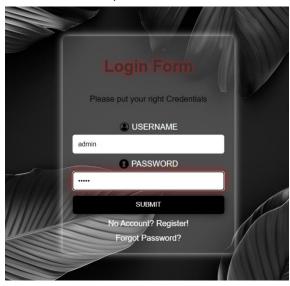
Final Project – Library System

Programming Choice – Web Development – Using HTML, CSS and PHP

Step 1: Login Form

username: admin password: admin



Step 2: Search for a Specific books you want to borrow, you can use a keyword to find your ideal book. Example: In the Search bar type 'Promised'.



Result: A Promised Land with a BookID of 19.

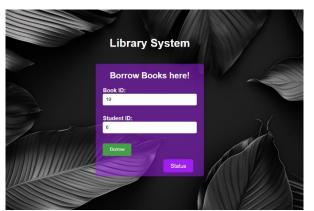
Step 3: Borrow Book

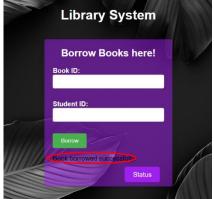
Note: You should know the BookID of the books you want to borrow and also your StudentID, you can see your student id in Accounts Management (Go to Status and click the Accounts Button and you can see your StudentID their)

We used the account of admin so our StudentID is 6, and the book id we want to borrow is 19.







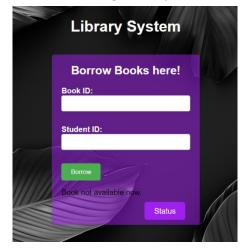


So, after filling up the requirement to borrow books, you can see the message" Book borrowed successfully". And to make sure that you can check it on your localhost.



We can here, the BookID we Borrow a while and we can also see the BorrowDate, DueDate and the ReturnDate, we can see the ReturnDate is Null because the borrowed book is not yet return.

Note for Borrowing books, you can't borrow the books if is not return yet.

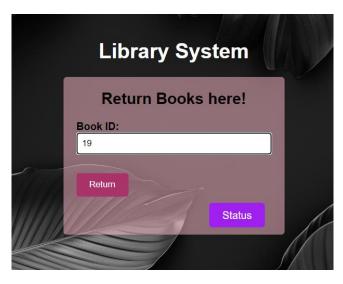


You can see here the message" Book not available now" because its already borrow by someone.

Step 4: Return Books

In returning books, you only need to type the BookID.

We will return the book we borrowed earlier. Which the" A Promised Land", with a bookID of 19.





Lets Check the Localhost if we successfully returned the book.

←∏			▽	TransactionID	BookID	StudentID	BorrowDate	DueDate	ReturnDate
		≩ Copy	Delete	1	1	1	2024-04-12	2024-04-26	2024-04-12
		≩ Copy	Delete	2	1	1	2024-04-12	2024-04-26	2024-04-12
		≩ Copy	Delete	3	1	11	2024-04-16	2024-04-30	2024-04-16
		∄ Copy	Delete	5	9	1	2024-05-15	2024-05-29	2024-05-15
	Ø Edit	≩ Copy	Delete	12	16	5	2024-05-16	2024-05-30	2024-05-16
		≩ Copy	Delete	13	19	6	2024-05-17	2024-05-31	2024-05-17

We can see the ReturnDate is not Null anymore because we already return the book we borrowed earlier.

Step 5: Update or Edit Books

In Editing Books Detail, we go to Update Area which we can see in Status



If you want to edit the details of books you can choose the book you want to edit in the dropdown list.

Title:
Klara and the Sun

Author:
Kazuo Ishiguro

ISBN:
9780593318171

Published Year:
2021

Genre:
Science Fiction

Availability:
Available

Like this I will edit the Availability to Borrowed, to see if the update setting is working well.



We can see the message here after I click the update button, it says "Record updated successfully



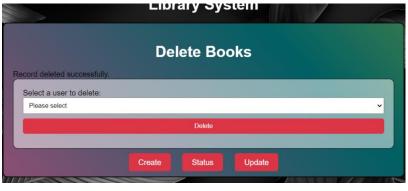
We can see here the Availability is now on Borrowed.

Step 6: Delete Books

In Deleting Books, you will Select only the Title of books you want to delete.



We can see here I selected the 'Piranesi', and will delete that now.



We successfully deleted the books Piranesi.

Note you can't delete a book with a history of borrow even if is already returned.

Step 7: Create Books or Add Books

To add more books, you go to Status and click the button of Create.



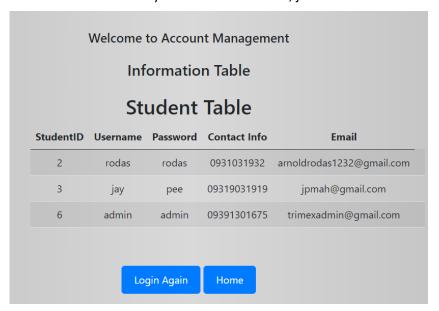
We Successfully add books and to make sure that, let's check in status.



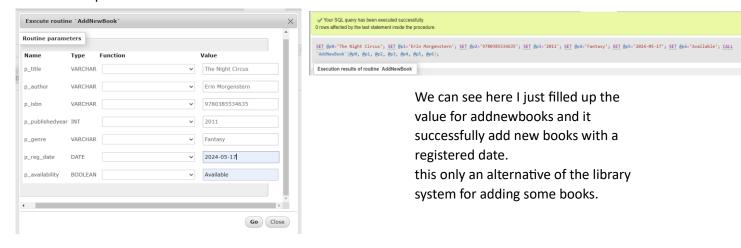
We can see here in Registered rows, the time and date that we registered the books.

Step 8: Account Management

To see all the accounts you can see it in Status, just click the Button for Accounts.



For Technical Requirements **like CTE and Store Procedure**, you can see that in localhost. example



Code of the System CREATE

```
<html>
<head>
<title>Create</title>
</head>
<body>
  <a href="index.php" class="logout-btn btn">Logout</a>
   <h1>Library System</h1>
  <h2>Add New Books here!</h2>
  <div class="container">
     class= container >

form method="post" action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]);?>">
<label for="title">Title:</label>
<input type="text" name="title" required>
<label for="author">Author:</label>
        <input type="text" name="author" required>
<label for="isbn">ISBN:</label>
<input type="text" name="isbn" required>
         <label for="publishedyear">Published Year:</label>
        <input type="text" name="publishedyear" required>
<label for="genre">Genre:</label>
         <input type="text" name="genre" required>
        clabel for="Availability">Availability:</label>
<input type="text" name="Availability">
<input type="text" name="Availability">
<input type="submit" value="Submit">
      </form>
      <?php
     include 'connection.php';
     include 'connection.php';
     if ($_SERVER["REQUEST_METHOD"] == "POST") {
        $title = $_POST['title'];
$author = $ POST['author'];
         $isbn = $ POST['isbn'];
        $publishedyear = $_POST['publishedyear'];
availability = $_POST['Availability'];
        echo "New Record Inserted Successfully";
           echo "Error: " . $sql . "<br>" . $conn->error;
        }
      <div class="btn-container">
        class="btn-container">
<a href="read.php" class="btn">Status</a>
<a href="update.php" class="btn">Update</a>
<a href="delete.php" class="btn">Delete</a>
<a href="borrow.php" class="btn">Borrow</a>
<a href="return.php" class="btn">Return</a>
      </div>
  </div>
</body>
</html>
```

I only show the main code for Create; I didn't include the style.

This code checks if a form has been submitted. If it has, it takes the book details entered in the form (like title, author, and ISBN), and tries to add these details to the database. If it succeeds, it shows a message saying "New Record Inserted Successfully"; if it fails, it shows an error message.

Borrow

```
<html>
<head>
<title>Borrow</title>

  </head>
                    <label for="studentID">Student ID:</label>
<input type="text" id="studentID" name="studentID" required><br><br><br></pr>
                    <input type="submit" value="Borrow">
              </form>
              <?php
include 'connection.php';</pre>
              if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $BookID = $_POST["BookID'];
    $StudentID = $_POST['StudentID'];
                    // Check if the book is available
$sql = "SELECT Availability FROM books WHERE BookID = $BookID";
$result = $conn->query($sql);
if ($result-\num_rous > 0) {
    $row = $result->fetch_assoc();
    if ($row|' Availability'] == 'Available') {
        // Update the book's availability to 'Borrowed'
        $sql = "UPDATE books SET Availability = 'Borrowed' WHERE BookID = $BookID";
        if ($conn->query($sql) === TRUE) {
            $Borrowoate = date("Y-m-d");
            $Bounded = date("Y-m-d");
            $Subedate = date("Y-m-d", strtotime("+14 days"));
                                        } else {
    echo "Error: " . $sql . "<br/>br>" . $conn->error . "";
                                 } else {
    echo "Error: " . $sql . "<br>" . $conn->error . "";
                           } else {
    echo "Book not available now.";
                    } else {
    echo "No such book found.";
                     $conn->close();
              } else {
    echo "Book borrowed successfully.";
              </div>
 </body>
```

This code creates a web page where you can borrow books. You enter the Book ID and your Student ID, and the system checks if the book is available. If it is, the book is marked as borrowed, and the system records your borrow details. If the book isn't available or if there are any issues, it shows a message explaining the problem.

Return

File Edit View

```
<html>
<head>
<title>Return</title>
</head>
<body>
   <h1>Library System</h1>
<div class="container">
        chasReturn Books herele/has
        <form action="return.php" method="post">
           <label for="BookID">Book ID:</label>
           <input type="text" id="BookID" name="BookID" required><br><br>
           <input type="submit" value="Return">
        </form>
        <?php
       include 'connection.php';
       if ($_SERVER["REQUEST_METHOD"] == "POST") {
       $BookID = $_POST['BookID'];
       $sql = "SELECT * FROM tblborrowtransact WHERE BookID = $BookID AND ReturnDate IS NULL";
       $result = $conn->query($sql);
       if ($result->num_rows > 0) {
           $return_date = date("Y-m-d");
$sql = "UPDATE tblborrowtransact SET ReturnDate = '$return_date' WHERE BookID = $BookID AND ReturnDate IS NULL";
           $conn->query($sql);
           $sql = "UPDATE books SET Availability = 'Available' WHERE BookID = $BookID";
           $conn->query($sql);
           echo "Book returned successfully.";
       } else {
           echo "No active borrowing record found for this book.";
   }
       $conn->close();
       <div class="btn-container">
      <a href="read.php" class="btn">Status</a>
    </div>
   </div>
</body>
```

This code creates a web page where you can return borrowed books. You enter the Book ID, and the system checks if there's an active borrowing record for that book. If there is, it marks the book as returned and updates its status to 'Available'. If there's no active borrowing record or if there are any issues, it shows a message explaining the problem.

Read

```
<html>
  <head>
  <title>Read</title>
  </head>
  <hody)
           <h1>Library System</h1>
          <div class="container":
                 <h2>Class= Container >
<h2>Search Books</h2>
<div class="search-container">
     <form action="" method="GET">
                                 <input type="text" name="title" id="searchBox" class="search-box" placeholder="Search by Title">
<button type="submit" class="search-button">Search</button>
                         </form>
                  </div>
                  <?php
                 include 'connection.php':
                  // Check if the title search query exists
                 if(isset($_GET['title'])) {
    $search_query = $_GET['title'];
    echo "<div class='search-term'>\h3>Search results for: $search_query</h3></div>";
                         $$ql = "SELECT BookID, title, author, isbn, publishedyear, genre, reg_date, Availability FROM books WHERE title LIKE '%$search query%'";
                         $result = $conn->query($sql);
                                 (presult-num_uns 20)
echo "div class='table-container'>";
echo "table iid='booksTable'>";
echo
while($row = $result->fetch assoc())
                                         echo "ttr>".$row["BookID"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row["author"]."".$row[
                                  echo "":
                                 echo "";
echo "</div>";
                         } else {
// If no results found, display a message
                                 echo "No results found.";
                        case (
echo "div class='table-container'>";
echo "div class='table-container'>";
echo "div class='table-container'>";
echo "div class='table-container'>";
echo "div class='fixed'>BookID4/th>div class='fixed'>Author4/th>div class='fixed'>Availability4/th>div class='fixed'>PublishedYear4/th>div class='fixed'>Genre4/th>div class='fixed'>Registered4/th>div class='fixed'>Availability4/th>div class='fixed'>PublishedYear4/th>div class='fixed'>Genre4/th>div class='fixed'>Registered4/th>div class='fixed'>Availability4/th>div class='fixed'>Availability4/th>div class='fixed'>BookID4/th>div class='fixed'>Registered4/th>div class='fixed'>Availability4/th>div class='fixed'>BookID4/th>div class='fixed'>Registered4/th>div class='fixed'>Availability4/th>div class='fixed'>BookID4/th>div class='fixed'>Registered4/th>div class='fixed'>Availability4/th>div class='fixed'>Registered4/th>div class='fix
 </thead>":
                        // Fetch all books if no search query is provided 
$sql = "SELECT BookID, title, author, isbn, publishedyear, genre, reg_date, Availability FROM books";
                         $result = $conn->query($sql);
                            if ($result->num_rows > 0) {
// Output all books
while($row = $result->fetch_assoc()) {
while($row = $result->fetch_assoc()) {
echo "crv:ctb".$row["senut"]."".$row["author"]."".$row["avialability"]."
// **.$row["bublishedyear"]."
// **.$row["genre"]."
// **.$row["genre"]."
// **.$row["avialability"]."
// **.$row["avialability"]."<
                              } else {
// If no books found, display a message
echo "0 results";
                              echo "";
echo "";
echo "</div>";
                     $conn->close();
```

The provided code offers a library system where users can search for books by title using a search box, with results displayed in a table format. If no search query is entered, all books in the library are shown. The displayed table includes columns for BookID, Author, Title, ISBN, Published Year, Genre, Registration Date, and Availability. Additionally, the page includes navigation buttons that allow users to perform other operations such as creating, updating, deleting books, borrowing, returning books, and managing accounts, facilitating comprehensive library management.

Delete

```
</head>
<br/>
<
 include 'connection.php'; // Database connection
 // Handle deletion if form is submitted
if ($ SERVER["REQUEST METHOD"] == "POST") {
       $BookID = $_POST['BookID'];
       // SQL to delete a record
$sql = "DELETE FROM books WHERE BookID=$BookID";
        if ($conn->query($sql) === TRUE) {
               echo "Record deleted successfully. <br>";
       else {
   echo "Error deleting record: " . $conn->error . "<br>";
// Fetch all users to display in the delete form
$sql = "SELECT BookID, title FROM books";
$result = $conn->query($sql);
<!-- Form to select a user to delete -->
<form method="post" action="">
  <label for="BookID">Select a user to delete:</label>
        <select name="BookID" required>
  <option value="">Please select</option>
               <?php
if ($result->num_rows > 0) {
                                 output data of each row
                       // Output data or each row
while($now = $result->fetch_assoc()) {
  echo "<option value='".$row["BookID"]."'>".$row["title"]."</option>";
              } else {
   echo "<option value=''>No users found</option>";
</select>
               <input type="submit" value="Delete">
</form>
                <div class="htm-container">
                      <a href="create.php" class="btn">Create</a>
<a href="read.php" class="btn">Status</a>
<a href="update.php" class="btn">Update</a>
                </div>
 </div>
</html>
```

This code allows users to delete books from the library system. It provides a form where users can select a book from a dropdown list and delete it. The PHP script executes an SQL query to delete the selected book from the database, displaying feedback messages about the success or failure of the deletion process. Navigation buttons are also included for other library management functionalities like creating new books, viewing book status, and updating records, enhancing user interaction and system efficiency.

Account Management

```
chead>
ctitle>Delete</title>
(Abad)
(Abad)
(Abad)
(Abad)
(Abad)
(Abad)
(Abas)
(Abas="media-showcase" tabindex="0")
(Abaclass="form-wrapper text-center")
(Abaclass="form-wrapper text-center")
(Abas="now justify-content-center mt-4")
(Abas="abaclass="mtable/hb>
(Abas="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abaclass="abac
```

This code provides an account management interface for the library system. It displays student account information in a table, including StudentID, Username, Password, Contact Info, and Email. Users can view this information and perform actions like logging in again or returning to the home page using the provided buttons.

Link for file of Library System: https://drive.google.com/file/d/158kqjB7QH6AQYjkXSVCG0fdHjoV-CfrD/view?usp=sharing