



American International University- Bangladesh

CSC 3215: Web Technologies

CO2 and CO4 Evaluation Finished Project Report Spring 2021-22

Project Title: Library Management System
Section: E

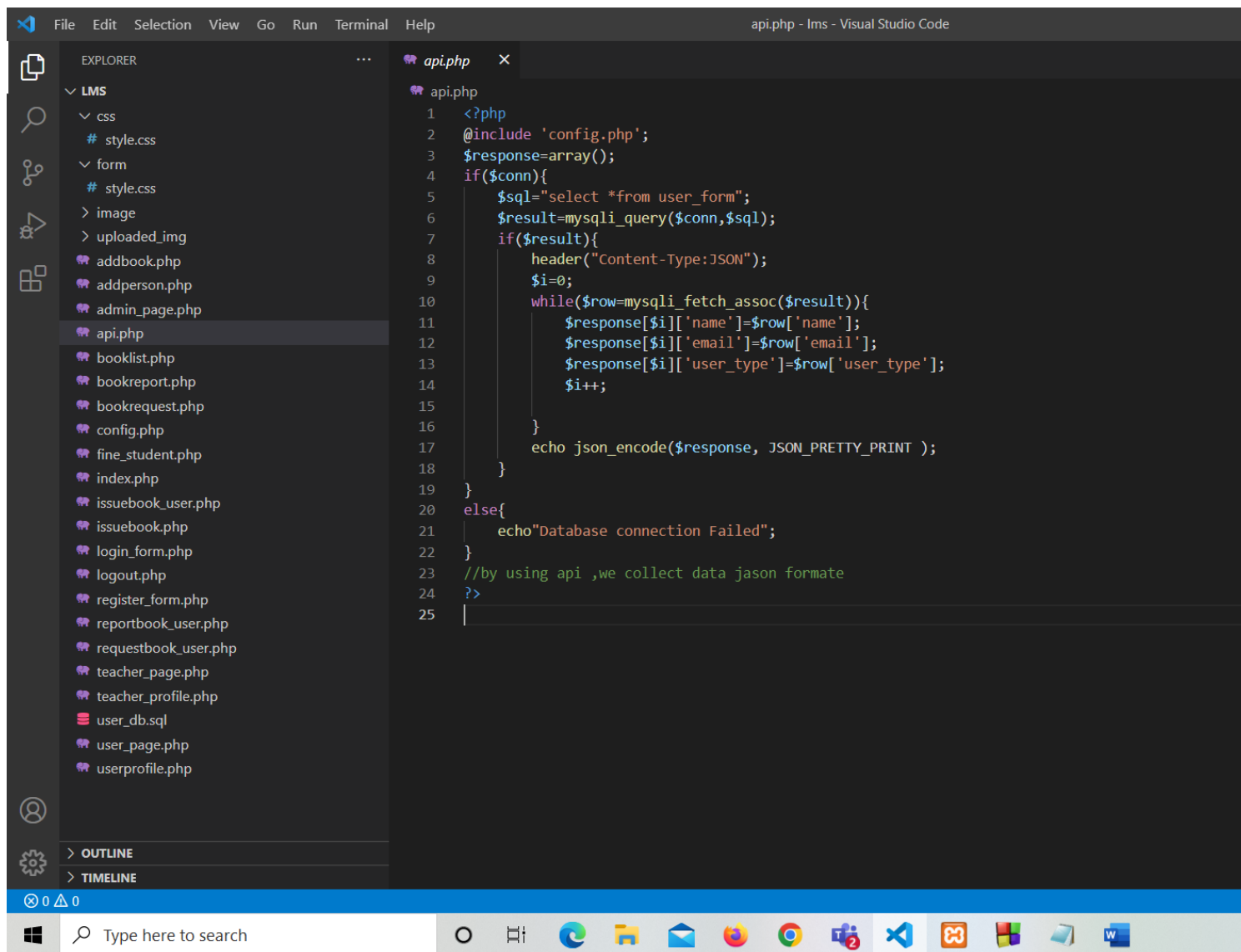
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Library Management System

Project Description:

The Reason of the project is to build a web application that is a Library Management System which will facilitate all various complex processes that are usually involved in a particular library system. These various complex processes are really difficult to manage by the student who studying in a library without the development of a proper library management system. The library management system that we are developing contains a list of features that will enable the teachers and students to manage and carry out the various complex processes in a library system digitally and with ease. The features of the library management system are divided into 3 sections. These are Admin, Teacher and Student. The user can login to the form with correct password and he will be able to update user information, show all Book/Book request. The admin will also have the access to see the information. Admin can show user information by user account name and id . Admin can also check the information of the teachers by teachers id, name. With this web application the admin can manages all the features and the procedures of the library system more accurately than before. The user can open new account for view book and request for book. All these procedures will be done in this project. This application will reduce our time in library management system.

Project Folder Structure:



The screenshot displays the Visual Studio Code interface. On the left, the Explorer sidebar shows the project's folder structure under the name 'LMS'. The files listed include 'css' (style.css), 'form' (style.css), 'image', 'uploaded_img', and several PHP files: 'addbook.php', 'addperson.php', 'admin_page.php', 'api.php' (selected), 'booklist.php', 'bookreport.php', 'bookrequest.php', 'config.php', 'fine_student.php', 'index.php', 'issuebook_user.php', 'issuebook.php', 'login_form.php', 'logout.php', 'register_form.php', 'reportbook_user.php', 'requestbook_user.php', 'teacher_page.php', 'teacher_profile.php', 'user_db.sql', 'user_page.php', and 'userprofile.php'. The main editor area shows the code for 'api.php'. The code is a PHP script that connects to a database, queries the 'user_form' table, and returns the results as a JSON array. It includes error handling for database connection failures. The code is as follows:

```
1 <?php
2 @include 'config.php';
3 $response=array();
4 if($conn){
5     $sql="select *from user_form";
6     $result=mysqli_query($conn,$sql);
7     if($result){
8         header("Content-Type:JSON");
9         $i=0;
10        while($row=mysqli_fetch_assoc($result)){
11            $response[$i]['name']=$row['name'];
12            $response[$i]['email']=$row['email'];
13            $response[$i]['user_type']=$row['user_type'];
14            $i++;
15        }
16        echo json_encode($response, JSON_PRETTY_PRINT );
17    }
18 }
19 }
20 else{
21     echo "Database connection Failed";
22 }
23 //by using api ,we collect data jason formate
24 ?>
25
```



Library Management System

Core Modules of the Project:

Login_form.php

```
<?php

@include 'config.php';

session_start();

if(isset($_POST['submit'])){

    $name = mysqli_real_escape_string($conn, $_POST['name']);
    $email = mysqli_real_escape_string($conn, $_POST['email']);
    $pass = md5($_POST['password']);
    $cpass = md5($_POST['cpassword']);
    $user_type = $_POST['user_type'];

    $select = " SELECT * FROM user_form WHERE email = '$email' && password = '$pass' ";

    $result = mysqli_query($conn, $select);

    if(mysqli_num_rows($result) > 0){

        $row = mysqli_fetch_array($result);

        if($row['user_type'] == 'admin'){

            $_SESSION['admin_name'] = $row['name'];
            header('location:admin_page.php');

        }elseif($row['user_type'] == 'user'){

            $_SESSION['user_name'] = $row['name'];
            header('location:user_page.php');
            $_SESSION['user_email'] = $row['email'];
            header('location:user_page.php');

        }
        elseif($row['user_type'] == 'teacher'){

            $_SESSION['teacher_name'] = $row['name'];
            header('location:teacher_page.php');
            $_SESSION['teacher_email'] = $row['email'];
            header('location:teacher_page.php');
```



Library Management System

```
    }

    }else{
        $error[] = 'incorrect email or password!';
    }

};
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>login form</title>

    <!-- custom css file link -->
    <link rel="stylesheet" href="css/style.css">

</head>
<style>
    body {
        background-image:url("image/vector.png");
        background-color: #9f9da7;
        font-size: 1.6rem;
        font-family: "Open Sans", sans-serif;
        color: #2b3e51;
    }

h3 {
    font-weight: 300;
    text-align: center;
}

p {
    position: relative;
}

a,
a:link,
a:visited,
a:active {
    color: #3ca9e2;
    -webkit-transition: all 0.2s ease;
    transition: all 0.2s ease;
```



Library Management System

```
}
a:focus, a:hover,
a:link:focus,
a:link:hover,
a:visited:focus,
a:visited:hover,
a:active:focus,
a:active:hover {
  color: #329dd5;
  -webkit-transition: all 0.2s ease;
  transition: all 0.2s ease;
}

#login-form-wrap {
  background-color: #fff;
  width: 35%;
  margin: 30px auto;
  text-align: center;
  padding: 20px 0 0 0;
  border-radius: 4px;
  box-shadow: 0px 30px 50px 0px rgba(0, 0, 0, 0.2);
}

#login-form {
  padding: 0 60px;
}

input {
  display: block;
  box-sizing: border-box;
  width: 100%;
  outline: none;
  height: 60px;
  line-height: 60px;
  border-radius: 4px;
}

input[type="text"],
input[type="email"] {
  width: 100%;
  padding: 0 0 0 10px;
  margin: 0;
  color: #8a8b8e;
  border: 1px solid #c2c0ca;
  font-style: normal;
  font-size: 16px;
  -webkit-appearance: none;
  -moz-appearance: none;
}
```



Library Management System

```
        appearance: none;
    position: relative;
    display: inline-block;
    background: none;
}
input[type="text"]:focus,
input[type="email"]:focus {
    border-color: #3ca9e2;
}
input[type="text"]:focus:invalid,
input[type="email"]:focus:invalid {
    color: #cc1e2b;
    border-color: #cc1e2b;
}
input[type="text"]:valid ~ .validation,
input[type="email"]:valid ~ .validation {
    display: block;
    border-color: #0C0;
}
input[type="text"]:valid ~ .validation span,
input[type="email"]:valid ~ .validation span {
    background: #0C0;
    position: absolute;
    border-radius: 6px;
}
input[type="text"]:valid ~ .validation span:first-child,
input[type="email"]:valid ~ .validation span:first-child {
    top: 30px;
    left: 14px;
    width: 20px;
    height: 3px;
    -webkit-transform: rotate(-45deg);
    transform: rotate(-45deg);
}
input[type="text"]:valid ~ .validation span:last-child,
input[type="email"]:valid ~ .validation span:last-child {
    top: 35px;
    left: 8px;
    width: 11px;
    height: 3px;
    -webkit-transform: rotate(45deg);
    transform: rotate(45deg);
}

.validation {
    display: none;
    position: absolute;
    content: " ";
}
```



Library Management System

```
height: 60px;
width: 30px;
right: 15px;
top: 0px;
}

input[type="submit"] {
border: none;
display: block;
background-color: #3ca9e2;
color: #fff;
font-weight: bold;
text-transform: uppercase;
cursor: pointer;
-webkit-transition: all 0.2s ease;
transition: all 0.2s ease;
font-size: 18px;
position: relative;
display: inline-block;
cursor: pointer;
text-align: center;
}

input[type="submit"]:hover {
background-color: #329dd5;
-webkit-transition: all 0.2s ease;
transition: all 0.2s ease;
}

#create-account-wrap {
background-color: white;
color: #8a8b8e;
font-size: 14px;
width: 100%;
padding: 10px 0;
border-radius: 0 0 4px 4px;
}

a{
text-decoration:none;
}

</style>

<body>

<div class="form-container" id="login-form-wrap" >

    <form action="" method="post" id="login-form">
        <!--<h2>LMS Login Form</h2><br>-->
        <h3><a href="index.php">Library Management System</a></h3>
    </form>
</div>
</body>
</html>
```



Library Management System

```
<?php
if(isset($error)){
    foreach($error as $error){
        echo '<span class="error-msg">'.$error.'</span>';
    };
};
?>
<p>
<input type="email" name="email" required placeholder="enter your email">
</p>
<p>
<input type="password" name="password" required placeholder="enter your password">
</p>
<p>
<input type="submit" onclick="myFunction()" name="submit" value="login" class="form-
btn">
</p>
<div id="create-account-wrap">
<p>Don't have an account? <a href="register_form.php">register now</a></p>
</div>
</form>

</div>
<script>
function myFunction() {
    alert(user_page.php.Welcome Student);
}
</script>

</body>
</html>
```

addbook.php

```
<?php

@include 'config.php';

if(isset($_POST['add'])){

    $bookname = mysqli_real_escape_string($conn, $_POST['bookname']);
    $bookid = mysqli_real_escape_string($conn, $_POST['bookid']);
    $bookdetail = ($_POST['bookdetail']);
    $bookauthor = ($_POST['bookauthor']);
    $bookpub = ($_POST['bookpub']);
    $bookedi = ($_POST['bookedi']);
```



Library Management System

```
$bookprice = ($_POST['bookprice']);
$bookquantity = ($_POST['bookquantity']);
$bookimage = ($_FILES['bookimage']['name']);
$bookimage_tmp_name= $_FILES['bookimage']['tmp_name'];
$bookimage_folder='uploaded_img/'.$bookimage;

$select = " SELECT * FROM booklist WHERE bookid = '$bookid' && bookname= '$bookname' ";

$result = mysqli_query($conn, $select);

if(mysqli_num_rows($result) > 0){

    $error[] = 'user already exist!';

}else{

    if($bookname != $bookdetail){
        $error[] = ' not matched!';
    }else{
        $insert = "INSERT INTO booklist(bookname, bookid, bookdetail, bookauthor,
bookpub, bookedid, bookprice, bookquantity, bookimage) VALUES
        ('$bookname','$bookid','$bookdetail','$bookauthor','$bookpub','$bookedid','$bookpr
ice','$bookquantity','$bookimage')";

        $query = mysqli_query($conn, $insert);
        if($query)
        {
            move_uploaded_file($bookimage_tmp_name,$bookimage_folder);
            $message[] = 'new product update successfully';
        }
        else{
            $message[] = 'could not add product';
        }
        // var_dump( $query);
        // die();
        header('location:adddbook.php');
    }
}

};

?>
```



Library Management System

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet" href="form/style.css">
  <title>Add Book</title>
</head>
<style>
  a:link{
    text-decoration:none;
  }
</style>
<body>

  <div>
    <h2 >ADD Book</h2></br>
    <form action="addbook.php" method="post" name="myForm" onsubmit="return
validateForm()">
      <label></label><input type="text" name="bookname" placeholder="book name"><br>
      <label></label><input type="number" name="bookid" placeholder="book
id"/></br>
      <label></label><input type="text" name="bookdetail"placeholder="book
details"/></br>
      <label></label><input type="text" name="bookauthor" placeholder="book
author"/></br>
      <label></label><input type="text" name="bookpub" placeholder="book
publication"/></br>
      <label></label><input type="number" name="bookedi" placeholder="book
edittion"/></br>
      <!--<div>Branch:<input type="radio" name="branch" value="AIUB"/>AIUB<div
style="margin-left:80px"><input type="radio" name="branch" value="Others"/>Others</div>
-->
      <label></label><input type="number" name="bookprice" placeholder="book
price"/></br>
      <label></label><input type="number" name="bookquantity" placeholder="book
quantity"/></br>
      <label>Book Photo</label><input type="file" accept="image/jpg , image/jpeg ,
image/png "name="bookimage"/></br>
      </br>

      <input type="submit" value="ADD BOOK" name="add" /><br>
      <a href="admin_page.php" class="btn">Admin Home page</a>
      </br>
      </br>
    </form>
  </div>
```



Library Management System

```
<script>
  function validateForm() {
    let x = document.forms["myForm"]["bookid"].value;
    if (x == "") {
      alert("Book ID must be filled out");
      return false;
    }
    let y = document.forms["myForm"]["bookname"].value;
    if (y == "") {
      alert("Book Name must be filled out");
      return false;
    }
  }
</script>

</body>
</html>
```

booklist.php

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css"
integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"
crossorigin="anonymous">
  <title>Book List</title>
</head>
<style>

</style>
<body>
  <h3>List of Books</h3>

  <div>
    <table class="table table-striped">
<thead>
  <tr>
    <th scope="col">IMAGE</th>
    <th scope="col">BOOK ID</th>
    <th scope="col">BOOK NAME</th>
    <th scope="col">AUTHOR</th>
    <th scope="col">EDITION</th>
```



Library Management System

```
<th scope="col">QUANTITY</th>

</tr>
</thead>
<tbody>

<?php

    @include 'config.php';
    $sql = "SELECT * FROM booklist ";

    $result = $conn->query($sql);

    while($row=$result->fetch_assoc())
    {

        ?>
        <tr>
            <td><a target="_blank" href="uploaded_img/"></td>
            <td><?php echo $row['bookid']; ?></td>
            <td><?php echo $row['bookname']; ?></td>
            <td><?php echo $row['bookauthor']; ?></td>
            <td><?php echo $row['bookedi']; ?></td>
            <td><?php echo $row['bookquantity']; ?></td>

        </tr>

    <?php
    }
    ?>

</tbody>
</table>

</div>
</body>
</html>
```

