

EUROPEAN UNIVERSITY OF LEFKE

Faculty of Engineering

Department of Software Engineering



COMP464

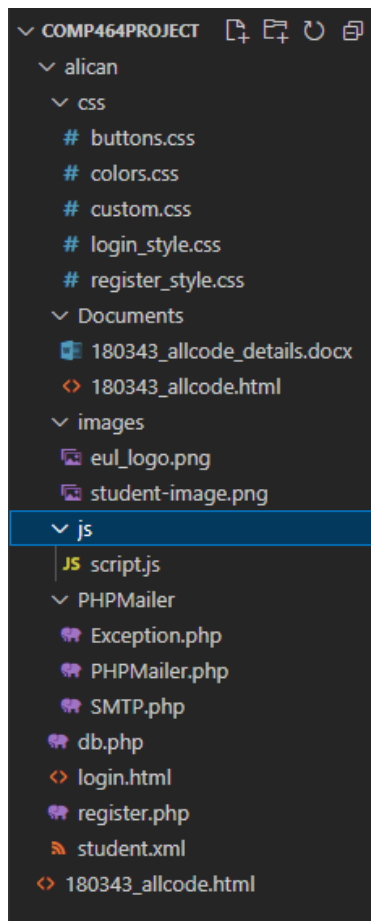
INTERNET PROGRAMMING

PROJECT: All code in details

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Let's start with file structures;



- All necessary css files in css folder,
- Documents are added to folder,
- Images are also added which used in project,
- Script files in js folder,
- In PHPMailer folder there are necessary files used in sending mail.
- login.html, register.php, student.xml and db.php are other files.

➤ Continue with login.html page;

```
<!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 Page</title>
  <link rel="stylesheet" href="css/custom.css">
  <link rel="stylesheet" href="css/login_style.css">
  <link rel="stylesheet" href="css/buttons.css">
  <link rel="stylesheet" href="css/colors.css">
  <!-- For icons -->
  <script src="https://use.fontawesome.com/releases/v6.3.0/js/all.js" crossorigin="anonymous"></script>
</head>
```

- I added necessary css files and set title of page.
- And for Icons, I added script src from font awesome.

```

<body style="background-color: #lightcyan;">
  <div class="container" style="background-color: #white;">
    <div class="row">
      <div class="col">
        <form id="loginForm" method="post" action="register.php">
          <div class="card-header">
            <div class="title">
              <h2 id="welcome">Welcome!</h2>
            </div>
            <div class="page-description">
              <h4>EUL Course Registration and Curriculum Management System</h4>
            </div>
          </div>
          <div class="card-body">
            <div class="row">
              <div class="col">
                <div class="image">
                  
                </div>
              </div>
              <div class="col">
                <div class="form-group">
                  <h6 id="loginform-tittle">Login Form</h6>
                </div>
                <div class="form-group">
                  <label for="username"><i class="fa-solid fa-user"></i> Username:</label>
                  <input class="form-control" type="text" placeholder="Enter your username..."
                    id="username" name="username" required autocomplete="off">
                </div>
                <div class="form-group">
                  <label class="label" for="password"><i class="fa-solid fa-lock"></i> Password:</label>
                  <div class="password-input-container">
                    <input type="password" placeholder="Enter your password..." class="form-control"
                      id="password" name="password" required autocomplete="off">
                  </div>
                </div>
              </div>
            </div>
          </div>
          <div class="card-footer">
            <div class="form-group">
              <button class="btn-primary" type="submit" name="loginbtn">LOG IN</button>
            </div>
          </div>
        </form>
      </div>
    </div>
  </div>

```

- Here is login form.
- There is a EUL logo and title.
- In body of login form 2 input fields for username and password.
- At the bottom login button and when user click loginbtn script code will work.

```

<script>
  sessionStorage.removeItem("loggedOut");
  const loginForm = document.getElementById("loginForm");
  loginForm.addEventListener("submit", function (event) {
    event.preventDefault();
    const username = document.getElementById("username").value;
    const password = document.getElementById("password").value;
    const xhr = new XMLHttpRequest();
    xhr.open("GET", "student.xml", true);
    xhr.responseType = "document";
    // Set up a callback function to handle the server response
    xhr.onreadystatechange = function () {
      if (xhr.readyState === XMLHttpRequest.DONE) {
        if (xhr.status === 200) {
          // Request successful, process the XML response
          const xmlDoc = xhr.responseXML;
          const students = xmlDoc.getElementsByTagName("Student");
          let authenticated = false;
          let studentInfo = {};
          // Iterate over the students and check for a match
          for (let i = 0; i < students.length; i++) {
            const student = students[i];
            const studentNo = student.getElementsByTagName("StudentNo")[0].textContent;
            const name = student.getElementsByTagName("Name")[0].textContent;
            const surname = student.getElementsByTagName("Surname")[0].textContent;
            const program = student.getElementsByTagName("Program")[0].textContent;
            if (surname === username && studentNo === password) {
              authenticated = true;
              studentInfo = {
                studentNo: studentNo,
                name: name,
                surname: surname,
                program: program
              };
              break;
            }
          }
          if (authenticated) {
            // Authentication successful
            const queryString = Object.keys(studentInfo).map(key => key + '=' + encodeURIComponent(studentInfo[key])).join('&');
            const url = "register.php? " + queryString;
            window.location.href = url;
          } else {
            // Authentication failed
            alert("Invalid username or password");
          }
        } else {
          console.log("Error: " + xhr.status);
        }
      }
    };
    loginForm.send();
  });
</script>

```

Get the form element, Attach event listener to form submission. Prevent default form submission. Retrieve form data, Create an XMLHttpRequest object. Configure the request. Set the response type to "document". Set up a callback function to handle the server response. Request successful, process the XML response. Iterate over the students and check for a match. Authentication successful, redirect to register.php with student information. Authentication failed, display an error message.

Register.php;

```
<?php
include("db.php");

// Retrieve the student information from the query parameters
$name = isset($_GET['name']) ? $_GET['name'] : '';
$surname = isset($_GET['surname']) ? $_GET['surname'] : '';
$studentNo = isset($_GET['studentNo']) ? $_GET['studentNo'] : '';
$program = isset($_GET['program']) ? $_GET['program'] : '';
```

First of all, retrieve student information.

```
<!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>Register Page</title>

  <link rel="stylesheet" href="css/buttons.css">
  <link rel="stylesheet" href="css/colors.css">
  <link rel="stylesheet" href="css/register_style.css">

  <script src="js/script.js"></script>

  <!-- For icons -->
  <script src="https://use.fontawesome.com/releases/v6.3.0/js/all.js" crossorigin="anonymous"></script>
</head>
```

Here is head section for register.php page.

```
<div class="header">
  <div class="logo">
    
  </div>
  <div class="page-tittle">
    <h4> EUL Course Registration and Curriculum Management System</h4>
  </div>
  <div class="logout">
    <form action="" method="post">
      <button class="logout-button" name="logoutbtn" type="submit">
        <i class="fa-solid fa-right-from-bracket"></i>
      </button>
    </form>
  </div>
</div>
```

Header div for navbar. There is a EUL logo and name of system. Also 2 logout button to redirect login.php.

```
<div class="section section-profile">
  <div class="profile profile-image">
    
  </div>

  <div class="profile profile-informations">
    <label class="information-label"> <b>Name:</b> <?php echo $name; ?></label>
    <label class="information-label"> <b>Surname:</b> <?php echo $surname; ?></label>
  </div>
  <div class="profile profile-informations">
    <label class="information-label"> <b>Department Name:</b> <?php echo $program; ?></label>
    <label class="information-label"> <b>Student No:</b> <?php echo $studentNo; ?> </label>
  </div>
  <div class="profile profile-informations">
    <label class="information-label"> <b>Semester:</b> Spring - 2023 </label>
    <label class="information-label"> <b>CGPA:</b> 3.00</label>
  </div>
</div>
```

Here is profile section. We already get data from login page using student.xml. In this section we display them.

```

<div class="section section-course-selection">
  <div class="card">
    <div class="card-header">
      <h2>Course Selection</h2>
    </div>
    <div class="card-body">
      <div class="course-list">
        <label for="course">Select Course:</label>
        <select id="course" name="course">
          <?php
            $query = "SELECT course_name FROM courses";
            $result = mysqli_query($connection, $query);
            if ($result) {
              while ($row = mysqli_fetch_assoc($result)) {
                $courseName = $row['course_name'];
                echo "<option value='\$courseName\$'> \$courseName</option>";
              }
              mysqli_free_result($result);
            }
          <?>
        </select>
      </div>
    </div>
    <div class="card-footer">
      <form action="" method="post">
        <button class="btn-primary" type="button" id="addCourse" name="addCourse">Add Course</button>
      </form>
    </div>
  </div>
</div>

```

In this part, I get course name from database. Database name is courses and column name is course_name. When user select course and click add course button, course will display on selected course section. And remove from course selection part.

```

<div class="section section-selected-courses">
  <div class="card">
    <div class="card-header">
      <h2>Selected Courses</h2>
    </div>
    <div class="card-body">
      <table id="selectedCoursesTable">
        <tr>
          <th>Course Name</th>
          <th>Process</th>
        </tr>
      </table>
    </div>
    <div class="card-footer"></div>
  </div>
</div>

```

Here when the user selects a course table will display them. If the user selects more than 5 user alert will be shown. User can delete course if its happened course removed to course selection part.

```

<script>
document.addEventListener('DOMContentLoaded', function() {
  var selectedCourses = JSON.parse(localStorage.getItem('selectedCourses')) || [];
  var addCourseButton = document.getElementById('addCourse');

  // Load selected courses from localStorage
  selectedCourses.forEach(function(course) {
    var tableRow = '<tr><td>' + course + '</td><td><button class="deleteCourse btn-danger" type="button">Delete</button></td></tr>';
    document.getElementById('selectedCoursesTable').innerHTML += tableRow;
    var optionToRemove = document.querySelector('#course option[value="' + course + '"]');
    if (optionToRemove) {
      optionToRemove.remove();
    }
  });

  addCourseButton.addEventListener('click', function() {
    var course = document.getElementById('course').value;

    if (selectedCourses.length < 5) {
      if (selectedCourses.indexOf(course) === -1) {
        selectedCourses.push(course);
        var tableRow = '<tr><td>' + course + '</td><td><button name="deleteCourse" class="deleteCourse btn-danger" type="button">Delete</button></td></tr>';
        document.getElementById('selectedCoursesTable').innerHTML += tableRow;
        var optionToRemove = document.querySelector('#course option[value="' + course + '"]');
        optionToRemove.remove();
        saveSelectedCourses();
      }
    } else {
      alert("You can only select up to 5 courses.");
    }
  });

  document.addEventListener('click', function(event) {
    if (event.target.classList.contains('deleteCourse')) {
      var course = event.target.closest('tr').querySelector('td:first-child').textContent;
      var index = selectedCourses.indexOf(course);

      if (index !== -1) {
        selectedCourses.splice(index, 1);
        event.target.closest('tr').remove();
        var option = document.createElement('option');
        option.value = course;
        option.text = course;
        document.getElementById('course').appendChild(option);
        saveSelectedCourses();
      }
    }
  });
});

```

Here is the script code for the selected course and course selection.

```

<div class="section section-comment">
  <form action="" method="post">

    <div class="card">
      <div class="card-header">
        <h2>Comment Section</h2>
      </div>
      <div class="card-body">
        <label for="comment">Write your comment:</label>
        <textarea id="comment" name="comment" style="max-width: 800px; max-height: 100px;"></textarea>
        <input type="hidden" name="name" value="<?php echo $name; ?> <?php echo $surname; ?>">
        <input type="hidden" name="email" value="doganalican46@hotmail.com">
        <input type="hidden" name="subject" value="About Course Registration">
      </div>
      <div class="card-footer">
        <button class="btn-primary" name="submitComment" id="submitComment" type="submit">SEND</button>
      </div>
    </div>
  </form>
</div>

```

In this part there is a text area. I will send mail to my e-mail adress using phpmailer. PHPMailer is library for sending mail. I create a hidden name, mail and subject section for receiver. I

define its values. <?php echo \$name; ?> send name of logged user to informed email address.

```

use PHPMailer\PHPMailer\PHPMailer;
use PHPMailer\PHPMailer\Exception;

require 'PHPMailer/Exception.php';
require 'PHPMailer/PHPMailer.php';
require 'PHPMailer/SMTP.php';

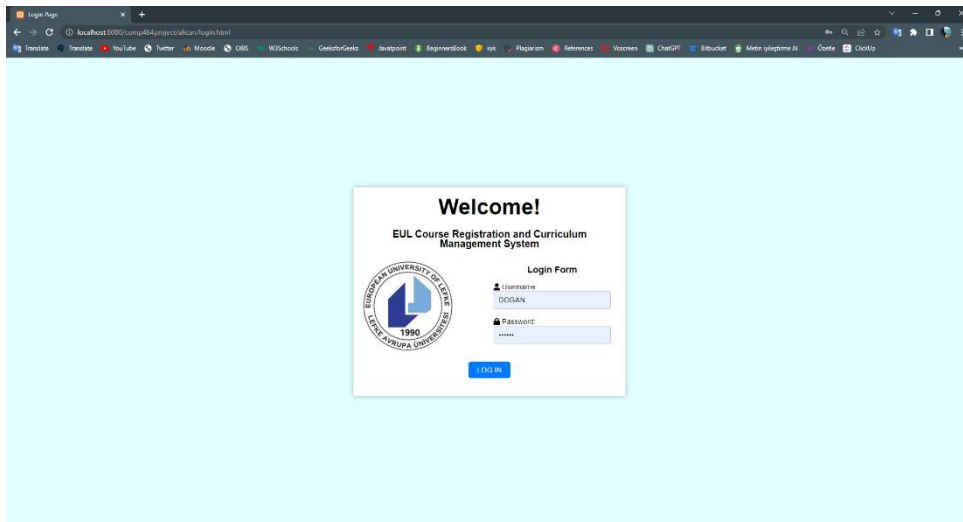
if (isset($_POST['submitComment'])) {
    $name = htmlentities($_POST['name']);
    $email = htmlentities($_POST['email']);
    $subject = htmlentities($_POST['subject']);
    $message = htmlentities($_POST['comment']);

    $mail = new PHPMailer(true);
    $mail->isSMTP();
    $mail->Host = 'smtp.gmail.com';
    $mail->SMTPAuth = true;
    $mail->Username = 'alicanalican4141@gmail.com';
    $mail->Password = 'ddbrgvaeutlqwcxo';
    $mail->Port = 465;
    $mail->SMTPSecure = 'ssl';
    $mail->isHTML(true);
    $mail->setFrom($email, $name);
    $mail->addAddress($email);
    $mail->Subject = (" $email ($subject)");
    $mail->Body = $message;
    $mail->send();

    try {
        $mail->send();
        echo '<script>alert("Mail sent successfully!");</script>';
    } catch (Exception $e) {
        echo '<script>alert("Failed to send email!");</script>';
    }
}

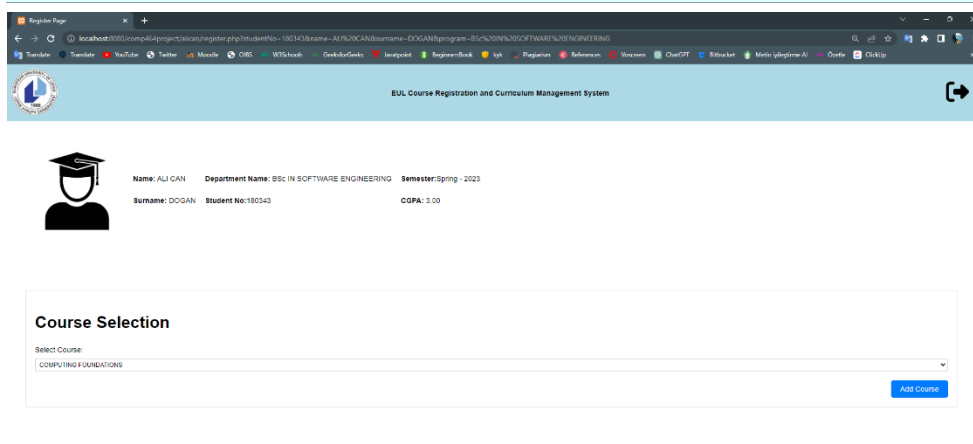
```

This code works only user click submitComment button. It gets name, email, subject and message from posted form. Then, we send data from my gmail to hotmail account. If mail send successfully system shows alert. If failed system also shows alert.

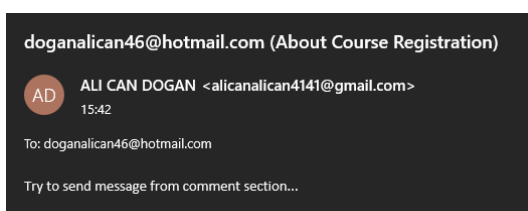
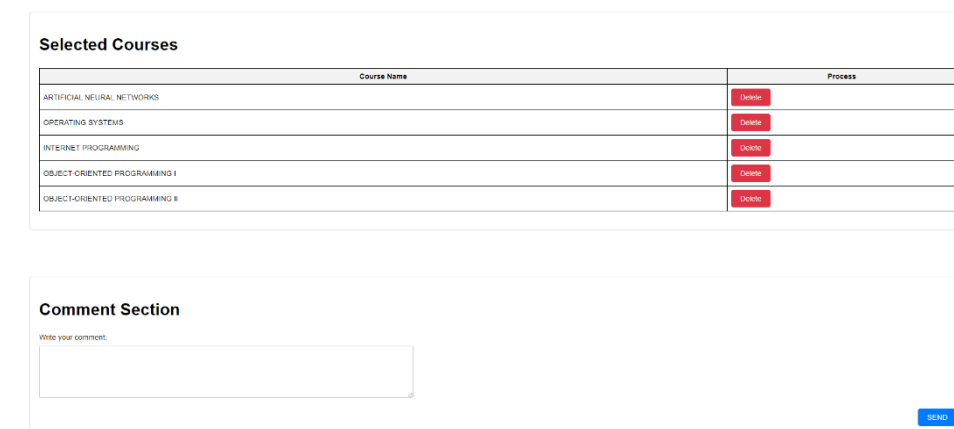


Login page interface...

When student write its lastname as an username and student no as an password he/she can login successfully.



When user login to the system here is output. System show its informations.



OUTPUT: