

Web Based Registration System for *Coastal University*

System Design & Implementation

CS 5910-001

Professor Naresh Gupta

System Manual

Antonio Codignotto (Leader) - acodigno@oldwestbury.edu, (516) 580-5503

For the database, I used mySql Workbench.

For the front-end I used HTML and CSS.

For the back-end I used PHP and Javascript.

Database Entities and Columns

- **User**
 - **userId (PK)**
 - **firstName**
 - **lastName**
 - **DOB**
 - **Address**
 - **City**
 - **State**
 - **Zip**
 - **userType**
- **Student**
 - **studentId (PK)**
 - **majorId (FK)**
 - **majorId2 (FK)**
 - **minorId (FK)**
 - **studentType**
 - **studentYear**
 - **earnedCredits**
 - **GPA**
- **Undergraduate_Student**
 - **studentId (PK)**
 - **undergraduateType (Full-Time/Part-Time)**
- **Graduate_Student**
 - **studentId (PK)**
 - **graduateType**
- **Faculty**
 - **facultyId (PK)**

- Specialty
- facultyRank
- facultyType (Full-Time/Part-Time)
- Admin
 - adminId (PK)
 - Status
- Researcher
 - researcherId (PK)
- Advisement
 - studentId
 - facultyId
 - dateOfAppointment
 - studentType
- Building
 - buildingId
 - buildingName
- Course
 - courseId
 - courseNum
 - courseName
 - Credits
 - departmentId
 - courseType
 - prereqSetNumber
- Course_section
 - CRN
 - courseId
 - sectionNum
 - facultyId
 - timeSlotId
 - buildingId
 - roomNum
 - availableSeats
 - semesterId
- Day
 - dayId
 - dayName
- Department
 - departmentId
 - departmentName

- Email
- phoneNumber
- Building
- Enrollment
 - studentId
 - CRN
 - midtermGrade
 - finalGrade
 - dateOfRegistration
- Faculty_Department
 - facultyId
 - departmentId
 - timePercentage
 - appointmentDate
- Hold
 - holdId
 - holdName
 - holdDescription
- Login
 - userId
 - Email
 - Password
 - userType
- Major
 - majorId
 - majorName
 - departmentId
 - dateOfOffering
 - minReqCredits
- Major_Requirement
 - courseId
 - majorId
 - minGrade
- Minor
 - minorId
 - minorName
 - departmentId
 - dateOfOffering
 - minReqCredits
- Minor_Requirement

- courseId
- minorId
- minGrade
- Period
 - periodId
 - startTime
 - endTime
- PrerequisiteSet
 - setNumber
 - prereqId1
 - prereqId2
 - prereqId3
- Room
 - roomId
 - buildingId
 - roomNumber
 - Capacity
 - roomType
- Semester
 - semesterId
 - Year
 - Season
 - startDate
 - endDate
- Student_Attendance
 - studentId
 - CRN
 - Date
 - Status
- Student_Hold
 - studentId
 - holdId
- TimeSlot
 - timeSlotId
 - Day
 - Period
- TimeSlot_Day
 - dayId
 - timeSlotId
- TimeSlot_Period

- periodId
- timeSlotId

Code Explanation

Visitor Pages

Academic Calendar

```
<body><table style="width: 702px; height: 100%; border-width: 0px; border-style: solid;" border="0"
">
<tbody>
<tr style="height: 20px;">
<td style="background-color: #E69138; color: black; height: 20px; width: 686.111px;" colspan="3"><
strong>Fall Term: August 31 - December 21, 2022<br></strong></td>
</tr>
<tr style="height: 20px;">
<td style="height: 20px; width: 100px;">August 22</td>
<td style="height: 20px; width: 100px;">Monday</td>
<td style="height: 20px; width: 511.667px;">Advising for all students</td>
</tr>
<tr style="height: 42px;">
<td style="height: 42px; width: 100px;">August 27</td>
<td style="height: 42px; width: 100px;">Saturday</td>
<td style="height: 42px; width: 511.667px;">Residence Halls Open</td>
</tr>
<tr style="height: 20px;">
```

I created the academic calendar using an HTML table.

Department List

```
<table border=1 height="1000" width="1500" >
<tr style = "font-size: 28px;">
<td bgcolor=#E69138 style="color: black;" class='medium'><strong>Department Name</strong></td>
<td bgcolor=#E69138 style="color: black;" class='medium'><strong>Email</strong></td>
<td bgcolor=#E69138 style="color: black;" class='medium'><strong>Phone No.</strong></td>
<td bgcolor=#E69138 style="color: black;" class='medium'><strong>Building</strong></td>
<td bgcolor=#E69138 style="color: black;" class='medium'><strong>Room No.</strong></td>
</tr>

<?php
$servername = "coastaldb.ciw7slkfmhqd.us-east-1.rds.amazonaws.com";
$username = "admin";
$password = "seaborn345";
$dbname = "mydb";

// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

$sql = "SELECT departmentName, email, phoneNumber, building, roomNumber FROM Department";
$result = $conn->query($sql);

if ($result->num_rows > 0) {
    // output data of each row
    while($row = $result->fetch_assoc()) {
        echo "<tr><td>" . $row["departmentName"]. "</td><td>" . $row["email"]. "</td><td>" . $row["phoneNumber"]. "</td><td>" . $row["building"]. "</td><td>" . $row["roomNumber"]. "</td></tr>";
    }
} else {
    echo "0 results";
}
$conn->close();
}
```

I created the department list using an HTML table for the styling and I used an SQL query to get the departments from the Department table in the database.

Major List

```
<div class="column">
  <h1 ><strong>Politics, Economics & Law</strong> </h1>
  <table border=1 height="50" width="600" >
    <tr style = "font-size: 16px;">
      <td bgcolor=#E69138 style="color: black;" class='medium'>Major Name</td>
      <td bgcolor=#E69138 style="color: black;" class='medium'>Credits Required</td>
    </tr>
  <?php
    $sql = "SELECT majorName, minReqCredits FROM Major WHERE departmentId = '2261993'
            ORDER BY majorName ASC";
    $result = $conn->query($sql);

    if ($result->num_rows > 0) {
      // output data of each row
      while($row = $result->fetch_assoc()) {
        echo "<tr><td>" . $row["majorName"]. "</td><td>" . $row["minReqCredits"]. "
              </td></tr>";
      }
    } else {
      echo "0 results";
    }
  ?>
</table>
```

I created the majors list using an HTML table for the styling and I used an SQL query to get the majors from the Major table. I also separated them by departmentId.

Master Schedule

```
<table border=1 height="200" width="2400" >
<tr>
<td bgcolor=#E69138 style="color: black;" class='medium'><strong>CRN</strong></td>
<td bgcolor=#E69138 style="color: black;" class='medium'><strong>Course#</strong></td>
<td bgcolor=#E69138 style="color: black;" class='medium'><strong>Course Name</strong></td>
<td bgcolor=#E69138 style="color: black;" class='medium'><strong>Section</strong></td>
<td bgcolor=#E69138 style="color: black;" class='medium'><strong>Professor First Name</strong></td>
<td bgcolor=#E69138 style="color: black;" class='medium'><strong>Professor Last Name</strong></td>
<td bgcolor=#E69138 style="color: black;" class='medium'><strong>Days</strong></td>
<td bgcolor=#E69138 style="color: black;" class='medium'><strong>Times</strong></td>
<td bgcolor=#E69138 style="color: black;" class='medium'><strong>Building</strong></td>
<td bgcolor=#E69138 style="color: black;" class='medium'><strong>Room#</strong></td>
<td bgcolor=#E69138 style="color: black;" class='medium'><strong>Seats</strong></td>
<td bgcolor=#E69138 style="color: black;" class='medium'><strong>Semester</strong></td>
<td bgcolor=#E69138 style="color: black;" class='medium'><strong>Year</strong></td>
</tr>

<?php
$sql = "SELECT Course_Section.CRN, Course.courseNum, Course.courseName, Course_Section.
sectionNum, User.firstName, User.lastName, TimeSlot.Day, TimeSlot.Period, Building.
buildingName, Course_Section.roomNum, Course_Section.availableSeats, Semester.season,
Semester.year
FROM Course_Section
INNER JOIN Course ON Course_Section.courseId=Course.courseId
INNER JOIN User ON Course_Section.facultyId=User.userId
INNER JOIN TimeSlot ON Course_Section.timeSlotId=TimeSlot.timeSlotId
INNER JOIN Building ON Course_Section.buildingId=Building.buildingId
INNER JOIN Semester ON Course_Section.semesterId=Semester.semesterId
ORDER BY CRN";

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

if ($result->num_rows > 0) {
    // output data of each row
    while($row = $result->fetch_assoc()) {
        echo "<tr><td>" . $row["CRN"]. "</td><td>" . $row["courseNum"]. "</td><td>" . $row["
courseName"]. "</td><td>" . $row["sectionNum"]. "</td><td>" . $row["firstName"]. "
</td><td>" . $row["lastName"]. "</td><td>" . $row["Day"]. "</td><td>" . $row["
Period"]. "</td><td>" . $row["buildingName"]. "</td><td>" . $row["roomNum"]. "
</td><td>" . $row["availableSeats"]. "</td><td>" . $row["season"]. "</td><td>" . $
row["year"]. "</td></tr>";
    }
} else {
    echo "0 results";
}

?>
```

I created the master schedule using an HTML table for the styling and I used an SQL query to get the information about each course-section from the Course_Section table.

Login Pages

```
<form name="login-form" action="loginFormAction.php" onsubmit="return validation() &
lsRememberMe()" method ="post">
  <div class="container">
    <label>Email: </label>
    <input type="text" placeholder="Enter Email" id ="email" name="email" required>

    <label>Password: </label>
    <input type="password" placeholder="Enter Password" id ="password" name="password"
    required>

    <label>Select User Type: </label>
    <select name="userType" id ="userType" >
      <option value="Admin">Admin</option>
      <option value="Student">Student</option>
      <option value="Faculty">Faculty</option>
      <option value="Researcher">Researcher</option></select>

    <button type="submit" id ="submitButton" name="submitButton" value="Login">Login</
    button>
    <input type="checkbox" value="lsRememberMe" id="rememberMe"> <label for="rememberMe">
    Remember me</label>
    <button type="reset" class="cancelbtn" value="Cancel">Reset</button>
    Forgot <a href="forgotPassword.php"> password? </a>
  </div>
</form>
```

This is how I created the login form.

```

$email = $_POST['email'];
$password = $_POST['password'];
$userType = $_POST['userType'];

$sql = "SELECT userId, email, password, userType FROM Login WHERE email = '$email' and
        password = '$password' and userType = '$userType' ";
$result = mysqli_query($conn, $sql);
$row = mysqli_fetch_array($result, MYSQLI_ASSOC);
$count = mysqli_num_rows($result);

if($count == 1){
    if ($userType=="Admin"){
        $_SESSION['email']=$email;
        echo "
            <center>
                <h1 style=color:red;>Admin Login Successful</h1>
                <form method=POST action=adminHome.php>
                    <input type=hidden name=loginEmail value=$email>
                    <input type=submit value=Continue>
                </form>
            </center>";
    }
    else if ($userType=="Student"){
        $_SESSION['email']=$email;
        echo "
            <center>
                <h1 style=color:red;>Student Login Successful</h1>
                <form method=POST action=studentHome.php>
                    <input type=hidden name=loginEmail value=$email>
                    <input type=hidden name=studentId value=".$row['userId'].">
                    <input type=submit value=Continue>
                </form>
            </center>";
    }
    else if ($userType=="Faculty"){
        $_SESSION['email']=$email;
        echo "
            <center>
                <h1 style=color:red;>Faculty Login Successful</h1>
                <form method=POST action=facultyHome.php>
                    <input type=hidden name=loginEmail value=$email>
                    <input type=hidden name=facultyId value=".$row['userId'].">
                    <input type=submit value=Continue>
                </form>
            </center>";
    }
    else if ($userType=="Researcher"){
        $_SESSION['email']=$email;
        header("Location: researcherHome.php");
    }
}
else{
    echo "<h1> Login failed. Invalid username/password/userType.</h1>";
}
}

```

This is the checks it goes through when logging in. It verifies the email, password, and userType from the Login table and only lets you into the system if all match.

```
<?php
    session_start();
    session_destroy();
    header("Location: login.php");
?>
```

When logging out, it destroys the session and return the user to the login page.

Administrator Pages

Admin Header

```
<div class="column">
  <select id="Schedules">
    <option value="" selected="">Schedules</option>
    <option value="adminMasterSchedule.php">Master Schedule</option>
  </select>
  <button onclick="siteRedirect()">GO</button>
</div>
<div class="column">
  <select id="Majors">
    <option value="" selected="">Majors</option>
    <option value="adminMajorList.php">View All Majors</option>
  </select>
  <button onclick="siteRedirect3()">GO</button>
</div>
<div class="column">
  <select id="Minors">
    <option value="" selected="">Minors</option>
    <option value="adminMinorList.php">View All Minors</option>
  </select>
  <button onclick="siteRedirect4()">GO</button>
</div>
<div class="column">
  <select id="CourseManagement">
    <option value="" selected="">Course Management</option>
    <option value="adminCourseList.php">View All Courses</option>
    <option value="adminCreateCourse.php">Add a New Course</option>
    <option value="adminCreateSection.php">Add a New Section</option>
  </select>
  <button onclick="siteRedirect6()">GO</button>
</div>
```

```
function siteRedirect() {
    var selectbox = document.getElementById("Schedules");
    var selectedValue = selectbox.options[selectbox.selectedIndex].value;
    window.location.href = selectedValue;
};
```

Found at the top of every single administrator page. It allows the admin to use the various lists and buttons at the top to redirect them to the page they are trying to go to.

Admin View Faculty-Departments

```
<table border=1 height="1000" width="1500" >
  <tr style = "font-size: 28px;">
    <td bgcolor=#E69138 style="color: black;" class='medium'><strong>Faculty First Name</strong></td>
    <td bgcolor=#E69138 style="color: black;" class='medium'><strong>Faculty Last Name</strong></td>
    <td bgcolor=#E69138 style="color: black;" class='medium'><strong>Department Name</strong></td>
  </tr>
```

php

```
include 'db_connection.php';

$sql = "SELECT User.firstName, User.lastName, Department.departmentName
FROM Faculty_Department
INNER JOIN User ON Faculty_Department.facultyId=User.userId
INNER JOIN Department ON Faculty_Department.departmentId=Department.departmentId
ORDER BY departmentName";

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

if ($result->num_rows > 0) {
  // output data of each row
  while($row = $result->fetch_assoc()) {
    echo "<tr><td>" . $row["firstName"]. "</td><td>" . $row["lastName"]. "</td><td>" . $row["
      departmentName"]. "</td></tr>";
  }
} else {
  echo "0 results";
}
$conn->close();
```

The admin can view the names of each faculty member sorted by their department.

Admin View Hold Types

```
<table border=1 height="200" width="1500" >
  <tr style = "font-size: 28px;">
    <td bgcolor=#E69138 style="color: black;" class='medium'><strong>Hold Name</strong></td>
    <td bgcolor=#E69138 style="color: black;" class='medium'><strong>Description</strong></td>
  </tr>

<?php
  include 'db_connection.php';

  $sql = "SELECT holdName, holdDescription FROM Hold";
  $result = $conn->query($sql);

  if ($result->num_rows > 0) {
    // output data of each row
    while($row = $result->fetch_assoc()) {
      echo "<tr><td>" . $row["holdName"] . "</td><td>" . $row["holdDescription"] . "</td></tr>";
    }
  } else {
    echo "0 results";
  }
  $conn->close();
?>
```

The admin can view each hold type and information about each.

Admin View Students with Holds

```
<table border=1 height="200" width="1500" >
<tr style = "font-size: 28px;">
<td bgcolor=#E69138 style="color: black;" class='medium'><strong>Student ID</strong></td>
<td bgcolor=#E69138 style="color: black;" class='medium'><strong>Student First Name</strong></td>
<td bgcolor=#E69138 style="color: black;" class='medium'><strong>Student Last Name</strong></td>
<td bgcolor=#E69138 style="color: black;" class='medium'><strong>Student Type</strong></td>
<td bgcolor=#E69138 style="color: black;" class='medium'><strong>Hold Type</strong></td>
<td bgcolor=#E69138 style="color: black;" class='medium'><strong>Remove This Hold</strong></td>
<td bgcolor=#E69138 style="color: black;" class='medium'><strong>View this Student</strong></td>
</tr>

<?php
include 'db_connection.php';

$sql = "SELECT Student.studentId, User.firstName, User.lastName, Student.studentType, Hold.
holdName, Hold.holdId
FROM Student_Hold
INNER JOIN User ON Student_Hold.studentId=User.userId
INNER JOIN Student ON Student_Hold.studentId=Student.studentId
INNER JOIN Hold ON Student_Hold.holdId=Hold.holdId
ORDER BY studentId";
$result = $conn->query($sql);

if ($result->num_rows > 0) {
    // output data of each row
    while($row = $result->fetch_assoc()) {
        echo "<tr><td>" . $row["studentId"] . "</td><td>" . $row["firstName"] . "
</td><td>" . $row["lastName"] . "</td><td>" . $row["studentType"] . "</td><td>" . $row["
holdName"] . "</td><td>
<form method=POST action=holdDelete.php>
    <input type=hidden name=studentId value=".$row['studentId']. ">
    <input type=hidden name=holdId value=".$row['holdId']. ">
    <input type=submit value=Delete>
</form> </td><td> <form method=POST action=adminViewStudentInfo.php>
    <input type=hidden name=studentId value=".$row["studentId"]. ">
    <input type=submit value=ViewStudent>
</form> </td></tr>";
    }
} else {
    echo "0 results";
}
$conn->close();
?>
```


Admin Delete Hold

```
<?php
include 'db_connection.php';

if(isset($_POST['studentId']) && isset($_POST['holdId'])) {
    $studentId = $_POST['studentId'];
    $holdId = $_POST['holdId'];
    $sql_delete = "DELETE FROM Student_Hold WHERE studentId = $studentId AND holdId = $holdId";

    $result = $conn->query($sql_delete);
    if(mysqli_affected_rows($conn) > 0) {
        echo "
        <center>
            <h1 style=color:red;>Hold Successfully Removed</h1>
            <form method=POST action=adminStudentHolds.php>
                <input type=submit value=Return>
            </form>
        </center>";
    } else {
        echo "Failure";
    }
}
?>
```

The admin can remove a hold.

Admin View All Courses

```
<table border=1 height="200" width="1500" >
<tr style = "font-size: 28px;">
<td bgcolor=#E69138 style="color: black;" class='medium'><strong>Course ID</strong></td>
<td bgcolor=#E69138 style="color: black;" class='medium'><strong>Course Number</strong></td>
<td bgcolor=#E69138 style="color: black;" class='medium'><strong>Course Name</strong></td>
<td bgcolor=#E69138 style="color: black;" class='medium'><strong>Credits</strong></td>
<td bgcolor=#E69138 style="color: black;" class='medium'><strong>Department Name</strong></td>
</tr>
<tr>
<td colspan="5"><strong>View Sections for this Course</strong></td>
<td colspan="5"><strong>Edit Prerequisites for this Course</strong></td>
<td colspan="5"><strong>Remove this Course</strong></td>
</tr>
</table>

<?php
include 'db_connection.php';

$sql = "SELECT Course.courseId, Course.courseNum, Course.courseName, Course.credits,
        Department.departmentName, Course.prereqSetNumber
        FROM Course
        INNER JOIN Department ON Course.departmentId=Department.departmentId
        ORDER BY departmentName ASC, courseNum";
$result = $conn->query($sql);

if ($result->num_rows > 0) {
    // output data of each row
    while($row = $result->fetch_assoc()) {
        echo "<tr><td>" . $row["courseId"]. "</td><td>" . $row["courseNum"]. "</td><td>" . $row["courseName"]. "</td><td>" . $row["credits"]. "</td><td>" . $row["departmentName"]. "
        </td><td>
            <form method=POST action=adminViewCourseSections.php>
                <input type=hidden name=courseId value=".$row['courseId']. ">
                <input type=submit value=ViewSections>
            </form> </td><td>
            <form method=POST action=adminEditPrerequisites.php>
                <input type=hidden name=courseId value=".$row['courseId']. ">
                <input type=hidden name=courseName value='".$row['courseName']."'>
                <input type=hidden name=prereqSetNumber value=".$row['prereqSetNumber']. ">
                <input type=submit value=EditPrerequisites>
            </form> </td><td>
            <form method=POST action=courseDelete.php>
                <input type=hidden name=courseId value=".$row['courseId']. ">
                <input type=hidden name=prereqSetNumber value=".$row['prereqSetNumber']. ">
                <input type=submit value=Delete>
            </form> </td></tr>";
    }
} else {
    echo "0 results";
}
$conn->close();
>
```

Admin View All Sections for a Course

```
<?php
include 'db_connection.php';

if(isset($_POST['courseId'])){
    $courseId = $_POST['courseId'];
    $sql = "SELECT Course_Section.CRN, Course_Section.sectionNum, Course.courseNum, Course.
        courseName, TimeSlot.Day, TimeSlot.Period, Course_Section.roomNum, Building.buildingName,
        Course.credits, User.firstName, User.lastName, Course_Section.availableSeats
        FROM Course_Section
        INNER JOIN Course ON Course_Section.courseId=Course.courseId
        INNER JOIN TimeSlot ON Course_Section.timeSlotId=TimeSlot.timeSlotId
        INNER JOIN Building ON Course_Section.buildingId=Building.buildingId
        INNER JOIN User ON Course_Section.facultyId=User.userId
        WHERE Course_Section.courseId = $courseId AND Course_Section.semesterId='17926970'
        ORDER BY sectionNum";
    $result = $conn->query($sql);

    if ($result->num_rows > 0) {
        // output data of each row
        while($row = $result->fetch_assoc()) {
            echo "<tr><td>" . $row["CRN"] . "</td><td>" . $row["sectionNum"] . "</td><td>" . $row["
                courseNum"] . "</td><td>" . $row["courseName"] . "</td><td>" . $row["Day"] . "</td><td>" .
                $row["Period"] . "</td><td>" . $row["roomNum"] . "</td><td>" . $row["buildingName"] . "
                </td><td>" . $row["credits"] . "</td><td>" . $row["firstName"] . "</td><td>" . $row["
                lastName"] . "</td><td>" . $row["availableSeats"] . "</td><td>" . "<form method=POST
                action=adminViewRoster.php><input type=hidden name=CRN value=" . $row['CRN'] . "><input
                type=submit value=Roster></form> </td></tr>" ;
        }
    } else {
        echo "0 results";
    }
}
?>
```

Admin Edit, Add, Remove Prerequisites

Edit

```
<center>
  <h1>Select a Course to add as a Prerequisite</h1>
  <br>
  <form method=POST action=adminAddPrerequisite.php>
    <select id=courseSelect name=courseSelect>
      <option value=selected selected=></option>
    <?php
      $sql = "SELECT Course.courseId, Course.courseNum, Course.courseName,
        Department.departmentName
        FROM Course
        INNER JOIN Department ON Course.departmentId=Department.departmentId
        ORDER BY departmentName ASC, courseNum";
      $result = $conn->query($sql);

      if ($result->num_rows > 0) {
        while($row = $result->fetch_assoc()) {
          $row_id = $row['courseId'];
          echo "<option value='$row_id'>".$row['courseName'].</option> ";
        }
      } else {
        echo "0 results";
      }
    ?>
  </select>
  <input type=hidden name=courseId value='<?php echo $courseId; ?>'>
  <input type=hidden name=prereqSetNumber value='<?php echo $prereqSetNumber; ?>'>
  <input type=hidden name=courseName value='<?php echo $courseName; ?>'>
  <input type=submit value='Select Course'>
</form>
```

Add

```
if ($prereqId1 == NULL && $prereqId2 == NULL && $prereqId3 == NULL) {
    $sql2 = "UPDATE PrerequisiteSet SET prereqId1=$courseSelect WHERE setNumber=$
    prereqSetNumber";
    if ( mysqli_query($conn, $sql2) ) {
        echo "
        <center>
            <h1 style=color:red;>Prerequisite Course Has Been Successfully Added to
            Course '$courseName'</h1>
            <form method=POST action=adminEditPrerequisites.php>
                <input type=hidden name=courseId value=$courseId>
                <input type=hidden name=prereqSetNumber value=$prereqSetNumber>
                <input type=hidden name=courseName value='$courseName'>
                <input type=submit value=Return>
            </form>
        </center>";
    } else {
        echo "Failure";
    }
}
```

Remove

```
<?php
$sql = "UPDATE PrerequisiteSet SET prereqId1=NULL WHERE (setNumber='$prereqSetNumber') AND (
    prereqId1='$courseId')";
UPDATE PrerequisiteSet SET prereqId2=NULL WHERE (setNumber='$prereqSetNumber') AND (prereqId2='
    $courseId');
UPDATE PrerequisiteSet SET prereqId3=NULL WHERE (setNumber='$prereqSetNumber') AND (prereqId3='
    $courseId'); ";

if ( mysqli_multi_query($conn, $sql) ) {
    echo "
    <center>
        <h1 style=color:red;>Prerequisite Course Successfully Removed</h1>
        <form method=POST action=adminEditPrerequisites.php>
            <input type=hidden name=courseId value=$courseId>
            <input type=hidden name=prereqSetNumber value=$prereqSetNumber>
            <input type=hidden name=courseName value='$courseName'>
            <input type=submit value=Return>
        </form>
    </center>";
} else {
    echo "Failure";
}

?>
```

Admin Remove Course

```
<?php
include 'db_connection.php';

if( isset($_POST['courseId']) && isset($_POST['prereqSetNumber']) ){
    $courseId = $_POST['courseId'];
    $prereqSetNumber = $_POST['prereqSetNumber'];
    $sql_delete = "DELETE FROM Course WHERE courseId = $courseId;
    DELETE FROM PrerequisiteSet WHERE setNumber = $prereqSetNumber;";
    $result = $conn->multi_query($sql_delete);
    if(mysqli_affected_rows($conn)> 0) {
        echo "
        <center>
            <h1 style=color:red;>Course Successfully Removed</h1>
            <form method=POST action=adminCourseList.php>
                <input type=submit value=Return>
            </form>
        </center>";
    } else {
        echo "Failure";
    }
}
?>
```

Admin View Roster

```
if(isset($_POST['CRN'])){
    $CRN = $_POST['CRN'];
    $sql = "SELECT Enrollment.studentId, User.firstName, User.lastName, Enrollment.midtermGrade,
            Enrollment.finalGrade
            FROM Enrollment
            INNER JOIN User ON Enrollment.studentId=User.userId
            WHERE Enrollment.CRN = $CRN
            ORDER BY Enrollment.studentId";
    $result = $conn->query($sql);

    if ($result->num_rows > 0) {
        // output data of each row
        while($row = $result->fetch_assoc()) {
            echo "<tr><td>" . $row["studentId"] . "</td><td>" . $row["firstName"] . "</td><td>" . $row["
                lastName"] . "</td><td><div id=oldMidtermGrade-" . $row['studentId'] . "><strong>" . $row["
                midtermGrade"] .
```

Admin Change Grade

```
if ( isset($_POST['midtermGradeSelect']) && isset($_POST['studentId']) && isset($_POST['CRN']) )
{
    $studentId = $_POST['studentId'];
    $CRN = $_POST['CRN'];
    $midtermGradeSelect = $_POST['midtermGradeSelect'];
    switch ($midtermGradeSelect) {
        case 'A' :
            $midtermGrade = 'A';
            break;
        case 'B' :
            $midtermGrade = 'B';
            break;
        case 'C' :
            $midtermGrade = 'C';
            break;
        case 'D' :
            $midtermGrade = 'D';
            break;
        case 'F' :
            $midtermGrade = 'F';
            break;
    }
    $midtermDueDate = date('m-d-y', 1666173111);
    $currentDate = date('m-d-y');
    if ($currentDate < $midtermDueDate) {
        $sql = "UPDATE Enrollment SET midtermGrade='$midtermGrade' WHERE (studentId='$studentId')
        AND
        (CRN='$CRN') ";

        if (mysqli_query($conn, $sql)) {
            echo "
            <center>
                <h1 style=color:red;>Midterm Grade Successfully Updated</h1>
                <form method=POST action=adminViewRoster.php>
                    <input type=hidden name=CRN value=$CRN>
                    <input type=submit value=Return>
                </form>
            </center>";
        } else {
            echo "Failure";
        }
    } else {
        echo "<center>
        <h1 style=color:red;>Midterm Grading Period has Passed</h1>
        <form method=POST action=adminViewRoster.php>
            <input type=hidden name=CRN value=$CRN>
            <input type=submit value=Return>
        </form>
        </center>";
    }
}
```


Admin View Attendance

```
if( isset($_POST['CRN']) && isset($_POST['studentId']) ){
    $CRN = $_POST['CRN'];
    $studentId = $_POST['studentId'];
    $sql = "SELECT Student_Attendance.date, Student_Attendance.status
            FROM Student_Attendance
            WHERE (Student_Attendance.studentId = '$studentId') AND (Student_Attendance.CRN =
            '$CRN')
            ORDER BY date";
    $result = $conn->query($sql);

    if ($result->num_rows > 0) {
        // output data of each row
        while($row = $result->fetch_assoc()) {
            echo "<tr><td>" . $row["date"] . "</td><td><div id=oldStatus-". $row["date"].">" . $row["
                status"]."</div>
                <div id=newStatus-". $row["date"]." hidden>
                <form method=POST action=changeStatus.php>
                    <select name=statusSelect>
                        <option value=selected selected=></option>
                        <option value=Present>Present</option>
                        <option value=NotPresent>Not Present</option>
                    <input type=hidden name=studentId value=$studentId>
                    <input type=hidden name=CRN value=$CRN>
                    <input type=hidden name=date value='". $row["date"]."'>
                    <input type=submit value=Update>
                </form>
                </div>
                <button id=changeStatusButton-". $row["date"]."
                    onclick=toggleStatusVisibility('". $row["date"]. "')>e</button>
                </td></tr>";
            }
        } else {
            echo "0 results";
        }
    }
}
```

Admin Update Attendance

```
if ( isset($_POST['statusSelect']) && isset($_POST['studentId']) && isset($_POST['CRN']) &&
    isset($_POST['date']) ) {
    $studentId = $_POST['studentId'];
    $CRN = $_POST['CRN'];
    $statusSelect = $_POST['statusSelect'];
    $date = $_POST['date'];
    switch ($statusSelect) {
        case 'Present' :
            $status = 'Present';
            break;
        case 'NotPresent' :
            $status = 'Not Present';
            break;
    }
    $attendanceDueDate = date('y-m-d', '$date');
    $currentDate = date('y-m-d');
    if ($currentDate < $attendanceDueDate) {
        $sql = "UPDATE Student_Attendance SET status='$status' WHERE (studentId='$studentId')
            AND
            (CRN='$CRN') AND (date='$date')";

        if (mysqli_query($conn, $sql)) {
            echo "
            <center>
            <h1 style=color:red;>Attendance Status Successfully Updated</h1>
            <form method=POST action=adminViewAttendance.php>
            <input type=hidden name=CRN value=$CRN>
            <input type=hidden name=studentId value=$studentId>
            <input type=submit value=Return>
            </form>
            </center>";
        } else {
            echo "Failure";
        }
    } else {
        echo "
        <center>
        <h1 style=color:red;>Cannot update Attendance after Day of Class</h1>
        <form method=POST action=adminViewAttendance.php>
        <input type=hidden name=CRN value=$CRN>
        <input type=hidden name=studentId value=$studentId>
        <input type=submit value=Return>
        </form>
        </center>";
    }
}
```

Admin View Student Info

```
<div class="row" style="margin-left: 10px">
  <div class="column">
    <h2>User Type-----</h2>
  </div>
  <div class="column">
    <?php
      include 'db_connection.php';

      $sql = "SELECT userType FROM User WHERE userId=$studentId";
      $result = $conn->query($sql);

      if ($result->num_rows > 0) {
        // output data of each row
        while($row = $result->fetch_assoc()) {
          echo "<h2>" . $row['userType'] . "</h2>";
        }
      } else {
        echo "0 results";
      }
    ?>
  </div>
</div>
```

Admin View Student Schedule

```
<?php
include 'db_connection.php';

$sql = "SELECT Enrollment.CRN, Course_Section.sectionNum, Course_Section.roomNum
FROM Enrollment
INNER JOIN Course_Section ON Enrollment.CRN=Course_Section.CRN
WHERE Enrollment.studentId=$studentId AND Course_Section.semesterId = '17926970'";
$result = $conn->query($sql);

if ($result->num_rows > 0) {
    // output data of each row
    while($row = $result->fetch_assoc()) {
        $CRN = $row['CRN'];
        echo "<tr><td>
            <form method=POST action=adminDropStudentCourse.php>
                <input type=hidden name=studentId value=$studentId>
                <input type=hidden name=CRN value=$CRN>
                <input type=submit value=Drop>
            </form>
        </td><td>" . $row['CRN'] . " </td><td>" . $row['sectionNum'] . " </td><td>" . $row['roomNum'] . " </td>>";

        $sql2 = "SELECT Building.buildingName, Course.courseNum, Course.courseName, TimeSlot
        .Day, TimeSlot.Period, User.firstName, User.lastName, Course.credits
        FROM Course_Section
        INNER JOIN Building ON Course_Section.buildingId=Building.buildingId
        INNER JOIN Course ON Course_Section.courseId=Course.courseId
        INNER JOIN TimeSlot ON Course_Section.timeSlotId=TimeSlot.timeSlotId
        INNER JOIN User ON Course_Section.facultyId=User.userId
        WHERE Course_Section.CRN=$CRN AND Course_Section.semesterId = '17926970'";
        $result2 = $conn->query($sql2);

        if ($result2->num_rows > 0) {
            // output data of each row
            while($row2 = $result2->fetch_assoc()) {
                echo "<td>" . $row2['buildingName'] . " </td><td>" . $row2['courseNum'] . "
                </td><td>" . $row2['courseName'] . " </td><td>" . $row2['Day'] . " </td><td>" . $
                row2['Period'] . " </td><td>" . $row2['firstName'] . " </td><td>" . $row2['
                lastName'] . " </td><td>" . $row2['credits'] . " </td></tr>";
            }
        } else {
            echo "0 results";
        }
    }
} else {
    echo "0 results";
}
```

Admin View Sections for Semesters

```
<?php
include 'db_connection.php';

$sql = "SELECT Course_Section.CRN, Course_Section.sectionNum, Course.courseNum, Course.
courseName, TimeSlot.Day, TimeSlot.Period, Course_Section.roomNum, Building.
buildingName, User.firstName, User.lastName, Course.credits, Course_Section.
availableSeats
FROM Course_Section
INNER JOIN Course ON Course_Section.courseId=Course.courseId
INNER JOIN User ON Course_Section.facultyId=User.userId
INNER JOIN TimeSlot ON Course_Section.timeSlotId=TimeSlot.timeSlotId
INNER JOIN Building ON Course_Section.buildingId=Building.buildingId
WHERE Course_Section.semesterId= '17926970'
ORDER BY Course_Section.CRN";
$result = $conn->query($sql);

if ($result->num_rows > 0) {
    // output data of each row
    while($row = $result->fetch_assoc()) {
        $CRN = $row['CRN'];
        echo "<tr><td>
            <form method=POST action=adminRegisterStudentCourse.php>
                <input type=hidden name=studentId value=$studentId>
                <input type=hidden name=CRN value=$CRN>
                <input type=submit value=Register>
            </form>
        </td><td>" . $row["CRN"]. "</td><td>" . $row["sectionNum"]. "</td><td>" . $row["
courseNum"]. "</td><td>" . $row["courseName"]. "</td><td>" . $row["Day"]. "
</td><td>" . $row["Period"]. "</td><td>" . $row["roomNum"]. "</td><td>" . $row["
buildingName"]. "</td><td>" . $row["firstName"]. "</td><td>" . $row["lastName"]. "
</td><td>" . $row["credits"]. "</td><td>" . $row["availableSeats"]. "</td></tr>";
    }
} else {
    echo "0 results";
}

?>
```

Admin View Student Transcript

```
$sql = "SELECT Enrollment.CRN, Course_Section.sectionNum
FROM Enrollment
INNER JOIN Course_Section ON Enrollment.CRN=Course_Section.CRN
WHERE (Enrollment.studentId=$studentId) AND ( (Enrollment.finalGrade='A' OR Enrollment.
    finalGrade='B' OR Enrollment.finalGrade='C') )
ORDER BY Course_Section.semesterId";
$result = $conn->query($sql);

if ($result->num_rows > 0) {
    while($row = $result->fetch_assoc()) {
        $CRN = $row['CRN'];
        echo "<tr><td>" . $row['CRN'] . "</td><td>" . $row['sectionNum'] . "</td>";
        $sql2 = "SELECT Course.courseNum, Course.courseName
FROM Course_Section
INNER JOIN Enrollment ON Course_Section.CRN=Enrollment.CRN
INNER JOIN Course ON Course_Section.courseId=Course.courseId
WHERE (Enrollment.studentId=$studentId) AND (Enrollment.CRN=$CRN) AND ( (
    Enrollment.finalGrade='A' OR Enrollment.finalGrade='B' OR Enrollment.
    finalGrade='C') )
ORDER BY Course_Section.semesterId";
        $result2 = $conn->query($sql2);

        if ($result2->num_rows > 0) {
            while($row2 = $result2->fetch_assoc()) {
                echo "<td>" . $row2['courseNum'] . "</td><td>" . $row2['courseName'] . "
                </td>";
                $sql3 = "SELECT Course_Section.roomNum, Building.buildingName, User.
                    firstName, User.lastName, Semester.season, Semester.year, Course.
                    credits, Enrollment.finalGrade
FROM Course_Section
INNER JOIN Building ON Course_Section.buildingId=Building.buildingId
INNER JOIN User ON Course_Section.facultyId=User.userId
INNER JOIN Semester ON Course_Section.semesterId=Semester.semesterId
INNER JOIN Course ON Course_Section.courseId=Course.courseId
INNER JOIN Enrollment ON Course_Section.CRN=Enrollment.CRN
WHERE (Enrollment.studentId=$studentId) AND (Enrollment.CRN=$CRN) AND
    ( (Enrollment.finalGrade='A' OR Enrollment.finalGrade='B' OR
    Enrollment.finalGrade='C') )
ORDER BY Course_Section.semesterId";
                $result3 = $conn->query($sql3);

                if ($result3->num_rows > 0) {
                    while($row3 = $result3->fetch_assoc()) {
                        echo "<td>" . $row3['roomNum'] . "</td><td>" . $row3['
                            buildingName'] . "</td><td>" . $row3['firstName'] . "</td><td>"
                            . $row3['lastName'] . "</td><td>" . $row3['season'] . "
                            </td><td>" . $row3['year'] . "</td><td>" . $row3['credits'] . "
                            </td><td>" . $row3['finalGrade'] . "</td></tr>";
                    }
                } else {
                    echo "Failure";
                }
            }
        } else {
            echo "Failure";
        }
    }
} else {
    echo "Failure";
}
} else {
    echo "Failure";
}
}

?>
```

Admin View Student Audit

```
<table border=1 height="200" width="400" >
  <br>
  <br>
  <h2 style = "margin-left: 20px"><strong>Total Requirements</strong></h2>
  <tr style = "font-size: 28px;">
    <td bgcolor=#E69138 style="color: black;" class='medium'><strong>Course Number</strong></td>
    <td bgcolor=#E69138 style="color: black;" class='medium'><strong>Course Name</strong></td>
    <td bgcolor=#E69138 style="color: black;" class='medium'><strong>Grade Required</strong></td>
  </tr>
</table>
<?php
  $sql="SELECT majorId FROM Student WHERE studentId=$studentId";
  $result = $conn->query($sql);
  if ($result->num_rows > 0) {
    while($row = $result->fetch_assoc()) {
      $majorId = $row['majorId'];
      $sql2 = "SELECT Course.courseNum, Course.courseName, Major_Requirement.minGrade
              FROM Major_Requirement
              INNER JOIN Course ON Major_Requirement.courseId=Course.courseId
              WHERE Major_Requirement.majorId=$majorId
              ORDER BY Course.courseNum";
      $result2 = $conn->query($sql2);

      if ($result2->num_rows > 0) {
        while($row2 = $result2->fetch_assoc()) {
          echo "<tr><td>" . $row2['courseNum'] . "</td><td>" . $row2['courseName'] . "
              </td><td>" . $row2['minGrade'] . "</td></tr>";
        }
      } else {
        echo "Failure";
      }
    }
  } else {
    echo "Failure";
  }
}
```

Admin Update Student Major

```
<?php
include 'db_connection.php';

if ( isset($_POST['studentId']) && isset($_POST['majorSelect']) ) {
    $studentId = $_POST['studentId'];
    $majorSelect = $_POST['majorSelect'];
    $sql = "UPDATE Student
    SET majorId = $majorSelect
    WHERE studentId=$studentId";

    if (mysqli_query($conn, $sql)) {
        echo "
        <center>
            <h1 style=color:red;>Major Successfully Updated</h1>
            <form method=POST action=adminEditStudentMajor.php>
                <input type=hidden name=studentId value=$studentId>
                <input type=submit value=Return>
            </form>
        </center>";
    } else {
        echo "Failure";
    }
}

?>
```


Admin Add Student Hold

```
<?php
include 'db_connection.php';

if ( isset($_POST['studentId']) && isset($_POST['holdSelect']) ) {
    $studentId = $_POST['studentId'];
    $holdSelect = $_POST['holdSelect'];
    $sql = "INSERT INTO Student_Hold (studentId, holdId) VALUES ('$studentId', '$holdSelect' )";
    if (mysqli_query($conn, $sql)) {
        echo "
        <center>
        <h1 style=color:red;>Hold Successfully Added</h1>
        <form method=POST action=adminAddStudentHold.php>
        <input type=hidden name=studentId value=$studentId>
        <input type=submit value=Return>
        </form>
        </center>";
    } else {
        echo "Failure to Add Hold";
    }
}

?>
```

Admin Register Student for Course

```
if ( isset($_POST['CRN']) && isset($_POST['studentId']) ) {
    $CRN = $_POST['CRN'];
    $studentId = $_POST['studentId'];
    $sql_seats = "SELECT availableSeats
                  FROM Course_Section
                  WHERE (CRN = '$CRN')";
    $seats_result = mysqli_query($conn, $sql_seats);
    if ($seats_result->num_rows > 0) {
        while($row = $seats_result->fetch_assoc()) {
            $availableSeats = $row['availableSeats'] - 1;
            if ($availableSeats >= 0) {
                $sql = "INSERT INTO Enrollment (studentId, CRN) VALUES ('$studentId', '$CRN');
                        UPDATE Course_Section SET availableSeats='$availableSeats'
                        WHERE (CRN = '$CRN');";
                if( mysqli_multi_query($conn, $sql) ) {
                    echo "
                    <center>
                        <h1 style=color:red;>Student Successfully Registered To Course CRN '$CRN'
                        '</h1>
                        <form method=POST action=adminViewCurrentStudentSchedule.php>
                            <input type=hidden name=studentId value=$studentId>
                            <input type=submit value=Return>
                        </form>
                    </center>";
                } else {
                    echo "Failure";
                }
            } else {
                echo "<center>
                        <h1 style=color:red;>Course has no seats left.</h1>
                        <form method=POST action=adminViewCurrentStudentSchedule.php>
                            <input type=hidden name=studentId value=$studentId>
                            <input type=submit value=Return>
                        </form>
                    </center>";
            }
        }
    } else {
        echo "Failure2";
    }
}
```

Admin Drop Student from Course

```
if ( isset($_POST['CRN']) && isset($_POST['studentId']) ) {
    $CRN = $_POST['CRN'];
    $studentId = $_POST['studentId'];
    $sql_seats = "SELECT Course_Section.availableSeats
                  FROM Enrollment
                  INNER JOIN Course_Section ON Enrollment.CRN=Course_Section.CRN
                  WHERE (Enrollment.CRN = '$CRN') AND (Enrollment.studentId = '$studentId')";
    $seats_result = mysqli_query($conn, $sql_seats);
    if ($seats_result->num_rows > 0) {
        while($row = $seats_result->fetch_assoc()) {
            $availableSeats = $row['availableSeats'] + 1;
            //Dec 1st
            $dropDueDate = date('m-d-y', 1669890887);
            $currentDate = date('m-d-y');
            if ($currentDate < $dropDueDate) {
                $sql_delete = "DELETE FROM Enrollment WHERE (CRN = $CRN) AND (studentId = $studentId);
                UPDATE Course_Section SET availableSeats=$availableSeats
                WHERE (CRN = '$CRN')";
                if( mysqli_multi_query($conn, $sql_delete) ) {
                    echo "
                    <center>
                        <h1 style=color:red;>Student Successfully Dropped From Course CRN '$CRN'
                        </h1>
                        <form method=POST action=adminViewCurrentStudentSchedule.php>
                            <input type=hidden name=studentId value=$studentId>
                            <input type=submit value=Return>
                        </form>
                    </center>";
                } else {
                    echo "Failure";
                }
            } else {
                echo "<center>
                <h1 style=color:red;>Passed Drop Due Date</h1>
                <form method=POST action=adminViewCurrentStudentSchedule.php>
                    <input type=hidden name=studentId value=$studentId>
                    <input type=submit value=Return>
                </form>
                </center>";
            }
        }
    }
} else {
    echo "0 results";
}
```

Admin View All Users

```
<?php
include 'db_connection.php';

$sql = "SELECT User.userId, Login.email, Login.password, User.firstName, User.lastName, User.
      DOB, User.Address, User.City, User.State, User.Zip, User.userType
      FROM User
      INNER JOIN Login ON User.userId=Login.userId
      ORDER BY User.userId";
$result = $conn->query($sql);

if ($result->num_rows > 0) {
    // output data of each row
    while($row = $result->fetch_assoc()) {
        echo "<tr><td>
            <form method=POST action=adminEditUser.php>
                <input type=hidden name=userId value='".$row['userId']."'>
                <input type=hidden name=email value='".$row['email']."'>
                <input type=hidden name=password value='".$row['password']."'>
                <input type=hidden name=firstName value='".$row['firstName']."'>
                <input type=hidden name=lastName value='".$row['lastName']."'>
                <input type=hidden name=DOB value='".$row['DOB']."'>
                <input type=hidden name=Address value='".$row['Address']."'>
                <input type=hidden name=City value='".$row['City']."'>
                <input type=hidden name=State value='".$row['State']."'>
                <input type=hidden name=Zip value='".$row['Zip']."'>
                <input type=submit value='Edit This User'>
            </form> </td><td>
                " . $row["userId"]. " </td><td>" . $row["email"]. " </td><td>" . $row["password"]. "
                </td><td>" . $row["firstName"]. " </td><td>" . $row["lastName"]. " </td><td>" . $row["DOB"]
                ]. " </td><td>" . $row["Address"]. " </td><td>" . $row["City"]. " </td><td>" . $row["State"]
                . " </td><td>" . $row["Zip"]. " </td><td>" . $row["userType"]. " </td></tr>";
    }
} else {
    echo "0 results";
}
$conn->close();
```

Admin Update Faculty Department

```
<?php
include 'db_connection.php';

if ( isset($_POST['facultyId']) && isset($_POST['departmentSelect']) ) {
    $facultyId = $_POST['facultyId'];
    $departmentSelect = $_POST['departmentSelect'];
    $sql = "UPDATE Faculty_Department
    SET departmentId = $departmentSelect
    WHERE facultyId=$facultyId";

    if (mysqli_query($conn, $sql)) {
        echo "
        <center>
            <h1 style=color:red;>Department Successfully Updated</h1>
            <form method=POST action=adminViewFacultyDepartment.php>
                <input type=hidden name=facultyId value=$facultyId>
                <input type=submit value=Return>
            </form>
        </center>";
    } else {
        echo "Failure";
    }
}
```

Admin Edit User Info

```
<center>
  <h1>Editing '<?php echo $fullName; ?>' Information </h1>
  <br>
  <form method=POST action=adminUpdateUserInfo.php>
    <input type=hidden name=userId value='<?php echo $userId; ?>'><br>

    <label for=newEmail>User Email</label><br>
    <input type=text name=newEmail value='<?php echo $email; ?>'><br>

    <label for=newPassword>User Password</label><br>
    <input type=text name=newPassword value='<?php echo $password; ?>'><br>

    <label for=newFirstName>First Name</label><br>
    <input type=text name=newFirstName value='<?php echo $firstName; ?>'><br>

    <label for=newLastName>Last Name</label><br>
    <input type=text name=newLastName value='<?php echo $lastName; ?>'><br>

    <label for=newAddress>User Address</label><br>
    <input type=text name=newAddress value='<?php echo $Address; ?>'><br>

    <label for=newCity>User City</label><br>
    <input type=text name=newCity value='<?php echo $City; ?>'><br>

    <label for=newState>User State</label><br>
    <input type=text name=newState value='<?php echo $State; ?>'><br>

    <label for=newZip>Zip</label><br>
    <input type=text name=newZip value='<?php echo $Zip; ?>'><br>

    <input type=submit value='Update User Information'>
  </form>
</center>
body>
```

```

<?php
include 'db_connection.php';

if( isset($_POST['userId']) && isset($_POST['newEmail']) && isset($_POST['newPassword']) && isset(
    $_POST['newFirstName']) && isset($_POST['newLastName']) && isset($_POST['newAddress']) && isset(
    $_POST['newCity']) && isset($_POST['newState']) && isset($_POST['newZip']) ) {
    $userId = $_POST['userId'];
    $newEmail = $_POST['newEmail'];
    $newPassword = $_POST['newPassword'];
    $newFirstName = $_POST['newFirstName'];
    $newLastName = $_POST['newLastName'];
    $newAddress = $_POST['newAddress'];
    $newCity = $_POST['newCity'];
    $newState = $_POST['newState'];
    $newZip = $_POST['newZip'];
}

$sql = "UPDATE User SET firstName='$newFirstName', lastName='$newLastName', Address='$newAddress',
    City='$newCity', State='$newState', Zip='$newZip' WHERE userId='$userId';
    UPDATE Login SET email='$newEmail', password='$newPassword' WHERE userId='$userId';";

if (mysqli_multi_query($conn, $sql)) {
    echo "
        <center>
            <h1 style=color:red;>User Information Successfully Updated</h1>
            <form method=POST action=adminUserList.php>
                <input type=submit value=Return>
            </form>
        </center>";
} else {
    echo "Failure";
}
?>

```

Admin Create User

```
<center>
  <h1><strong>Create a New User</strong></h1>
  <br>
  <h2>Select a a User Type</h2>
  <br>
  <form method=POST action=selectUserInfo.php>
    <select name=userTypeSelect>
      <option value=selected selected=></option>
      <option value='Student'>Student</option>
      <option value='Faculty'>Faculty</option>
      <option value='Researcher'>Researcher</option>
    <input type=submit value=Confirm>
  </form>
</center>
```


php

```
if ( $userTypeSelect == 'Student') {
    echo "<form method=POST action=reviewStudentUserInfo.php>
        <label for=firstName>First name: </label>
        <input type=text name=firstName><br>

        <label for=lastName>Last name: </label>
        <input type=text name=lastName><br>

        <label for=DOB>Date of Birth: </label>
        <input type=date name=DOB><br>

        <label for=Address>Address: </label>
        <input type=text name=Address><br>

        <label for=City>City: </label>
        <input type=text name=City><br>

        <label for=State>State: </label>
        <input type=text name=State><br>

        <label for=Zip>Zip: </label>
        <input type=text name=Zip><br>

        <label for=email>Email: </label>
        <input type=text name=email><br>

        <label for=password>Password: </label>
        <input type=text name=password><br>

        <label for=studentTypeSelect>Student Type: </label>
        <select id=studentTypeSelect name=studentTypeSelect>
            <option value=selected selected=></option>
            <option value=Undergraduate>Undergraduate</option>
            <option value=Graduate>Graduate</option>
        </select>

        <label for=hoursSelect>Student Hours: </label>
        <select id=hoursSelect name=hoursSelect>
            <option value=selected selected=></option>
            <option value='Full-Time'>Full-Time</option>
            <option value='Part-Time'>Part-Time</option>
        </select>
        <input type=submit value=Confirm>
    </form>";
} else if ($userTypeSelect == 'Faculty') {
```

```

if ($studentType == 'Undergraduate' && $studentHours == 'Full-Time') {
    $sql = "INSERT INTO User (userId, firstName, lastName, DOB, Address, City, State, Zip,
        userType) VALUES ('$userId', '$firstName', '$lastName', '$DOB', '$Address', '$City', '
        $State', '$Zip', 'Student');
        INSERT INTO Login (userId, email, password, userType) VALUES ('$userId', '$email', '
        $password', 'Student');
        INSERT INTO Student (studentId, studentType) VALUES ('$userId', 'Undergraduate');
        INSERT INTO Undergraduate_Student (studentId, undergraduateType) VALUES ('$userId',
        'Full-Time'); ";
    if ( mysqli_multi_query($conn, $sql) ) {
        echo "<center>
            <h1><strong>Create a New Student</strong></h1>
            <br>
            <h2>New Full-Time Undergraduate Student '$firstName' '$lastName' has been
            Created</h2>
            <h3>Click below to edit Major for newly created student.</h3>
            <form method=POST action=adminEditStudentMajor.php>
                <input type=hidden name=studentId value=$userId>
                <input type=submit value='Edit Majors'>
            </form>
        </center>";
    }
} else if ($studentType == 'Undergraduate' && $studentHours == 'Part-Time') {
    $sql = "INSERT INTO User (userId, firstName, lastName, DOB, Address, City, State, Zip,
        userType) VALUES ('$userId', '$firstName', '$lastName', '$DOB', '$Address', '$City', '
        $State', '$Zip', 'Student');
        INSERT INTO Login (userId, email, password, userType) VALUES ('$userId', '$email', '
        $password', 'Student');
        INSERT INTO Student (studentId, studentType) VALUES ('$userId', 'Undergraduate');
        INSERT INTO Undergraduate_Student (studentId, undergraduateType) VALUES ('$userId',
        'Part-Time'); ";
    if ( mysqli_multi_query($conn, $sql) ) {
        echo "<center>
            <h1><strong>Create a New Student</strong></h1>
            <br>
            <h2>New Part-Time Undergraduate Student '$firstName' '$lastName' has been
            Created</h2>
            <h3>Click below to edit Major for newly created student.</h3>
            <form method=POST action=adminEditStudentMajor.php>
                <input type=hidden name=studentId value=$userId>
                <input type=submit value='Edit Majors'>
            </form>
        </center>";
    }
} else if ($studentType == 'Graduate' && $studentHours == 'Full-Time') {
    $sql = "INSERT INTO User (userId, firstName, lastName, DOB, Address, City, State, Zip,
        userType) VALUES ('$userId', '$firstName', '$lastName', '$DOB', '$Address', '$City', '
        $State', '$Zip', 'Student');
        INSERT INTO Login (userId, email, password, userType) VALUES ('$userId', '$email', '
        $password', 'Student');
        INSERT INTO Student (studentId, studentType) VALUES ('$userId', 'Graduate');
        INSERT INTO Graduate_Student (studentId, graduateType) VALUES ('$userId', 'Full-Time
        '); ";
    if ( mysqli_multi_query($conn, $sql) ) {

```

Admin Create Course

```
<br>
<form method=POST action=selectCourseName.php>
  <select name=departmentSelect>
    <option value=selected selected=></option>
    <option value=Politics>Politics, Economics & Law</option>
    <option value=Accounting>Accounting & Taxation</option>
    <option value=Philosophy>Philosophy & Psychology</option>
    <option value=Education>Education</option>
    <option value=History>History</option>
    <option value=Chemistry>Chemistry & Physics</option>
    <option value=Media>Media & Visual Arts</option>
    <option value=Computer>Computer Science</option>
    <option value=Mathematics>Mathematics</option>
    <option value=English>English & Language</option>
    <option value=Biological>Biological Sciences</option>
    <option value=Marketing>Marketing & Finance</option>
  </select>
  <input type=submit value=Confirm>
</form>
/center>
```

```

if( isset($_POST['courseName']) && isset($_POST['departmentId']) && isset($_POST['courseNum'])
    && isset($_POST['credits']) && isset($_POST['courseType']) && isset($_POST['departmentName'])
){
    $courseName = $_POST['courseName'];
    $departmentId = $_POST['departmentId'];
    $departmentSelect = $_POST['departmentName'];
    $courseNum = $_POST['courseNum'];
    $credits = $_POST['credits'];
    $courseType = $_POST['courseType'];
    $courseId = mt_rand(10000000,99999999);

    $setNumber_Count = "SELECT MAX(setNumber) FROM PrerequisiteSet";
    $setNumber_Result = $conn->query($setNumber_Count);
    if ($setNumber_Result->num_rows > 0) {
        while($row = $setNumber_Result->fetch_assoc()) {
            $prereqSetNumber = $row['MAX(setNumber)'] + 1;
        }
    } else {
        echo "0 results";
    }
    $count_query = "SELECT * FROM Course WHERE courseName='$courseName'";
    $count_result = mysqli_query($conn, $count_query);
    if (mysqli_num_rows($count_result) == 0) {
        $sql = "INSERT INTO Course (courseId, courseNum, courseName, credits, departmentId,
            courseType, prereqSetNumber) VALUES ('$courseId', '$courseNum', '$courseName', '$credits',
            '$departmentId', '$courseType', '$prereqSetNumber')";
        INSERT INTO PrerequisiteSet (setNumber) VALUES ('$prereqSetNumber');";
        if ( mysqli_multi_query($conn, $sql) ) {
            echo "<!DOCTYPE html>";
        }
    }
}

```

Admin Create Section

```
<center>
  <h1><strong>Create a New Section</strong></h1>
  <br>
  <h2>Select a Department</h2>
  <br>
  <form method=POST action=selectCourse.php>
    <select name=departmentSelect2>
      <option value=selected selected=></option>
      <option value=Politics>Politics, Economics & Law</option>
      <option value=Accounting>Accounting & Taxation</option>
      <option value=Philosophy>Philosophy & Psychology</option>
      <option value=Education>Education</option>
      <option value=History>History</option>
      <option value=Chemistry>Chemistry & Physics</option>
      <option value=Media>Media & Visual Arts</option>
      <option value=Computer>Computer Science</option>
      <option value=Mathematics>Mathematics</option>
      <option value=English>English & Language</option>
      <option value=Biological>Biological Sciences</option>
      <option value=Marketing>Marketing & Finance</option>
    </select>
    <input type=submit value=Confirm>
  </form>
</center>
</body>
</html>
```

```

if( isset($_POST['CRN']) && isset($_POST['courseId']) && isset($_POST['sectionNum']) && isset($_POST['facultyId']) && isset($_POST['timeSlotId']) && isset($_POST['buildingId']) && isset($_POST['roomNum']) && isset($_POST['availableSeats']) && isset($_POST['semesterId']) ) {
    $CRN = $_POST['CRN'];
    $courseId = $_POST['courseId'];
    $sectionNum = $_POST['sectionNum'];
    $facultyId = $_POST['facultyId'];
    $timeSlotId = $_POST['timeSlotId'];
    $buildingId = $_POST['buildingId'];
    $roomNum = $_POST['roomNum'];
    $availableSeats = $_POST['availableSeats'];
    $semesterId = $_POST['semesterId'];

    $count_facultyType_query = "SELECT facultyType FROM Faculty WHERE facultyId=$facultyId";
    $count_facultyType_result = mysqli_query($conn, $count_facultyType_query);
    if ( mysqli_num_rows($count_facultyType_result) > 0 ) {
        while($row = $count_facultyType_result->fetch_assoc()) {
            $facultyType = $row['facultyType'];
        }
    }

    $count_faculty_query = "SELECT facultyId
FROM Course_Section
WHERE (facultyId=$facultyId) AND(semesterId=$semesterId)";
    $count_faculty_result = mysqli_query($conn, $count_faculty_query);

    $count_query = "SELECT * FROM Course_Section WHERE (timeSlotId=$timeSlotId) AND (buildingId=$buildingId) AND (roomNum=$roomNum) AND (semesterId=$semesterId)";
    $count_result = mysqli_query($conn, $count_query);

    if ($facultyType == 'Full-Time') {
        if ( mysqli_num_rows($count_faculty_result) < 2 ) {
            if ( mysqli_num_rows($count_result) == 0 ) {
                $sql = "INSERT INTO Course_Section (CRN, courseId, sectionNum, facultyId,
timeSlotId, buildingId, roomNum, availableSeats, semesterId) VALUES ('$CRN', '
$courseId', '$sectionNum', '$facultyId', '$timeSlotId', '$buildingId', '
$roomNum', '$availableSeats', '$semesterId')";
            }
        }
    }
}

```

