**Final Software Project**

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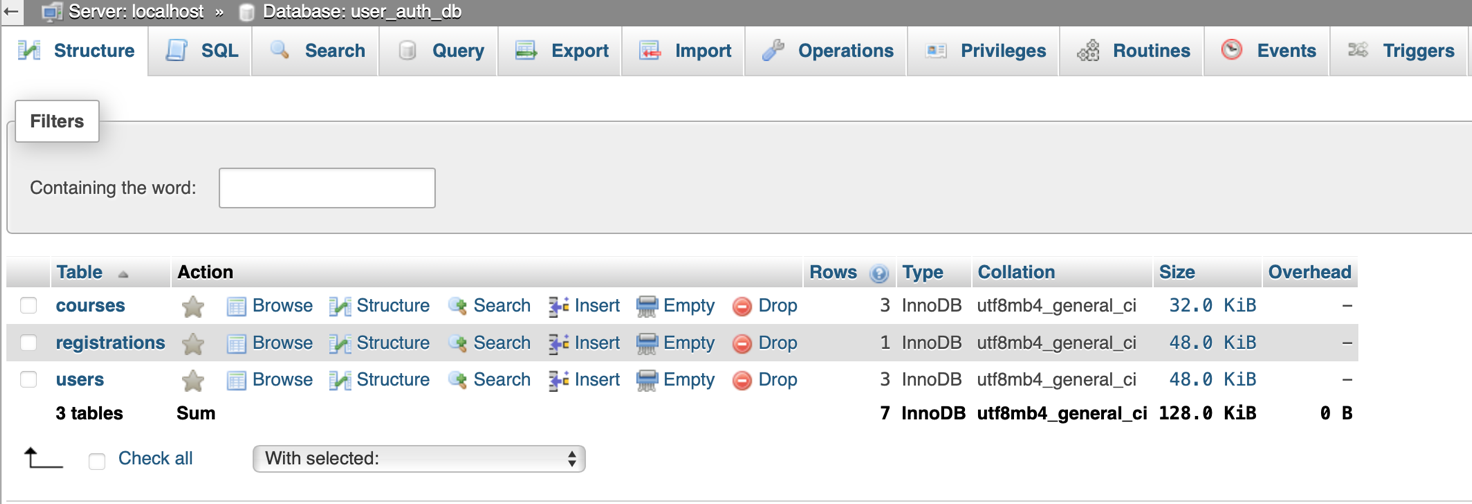
CST499: Capstone for Computer Software Technology

Professor Joseph Rangitsch

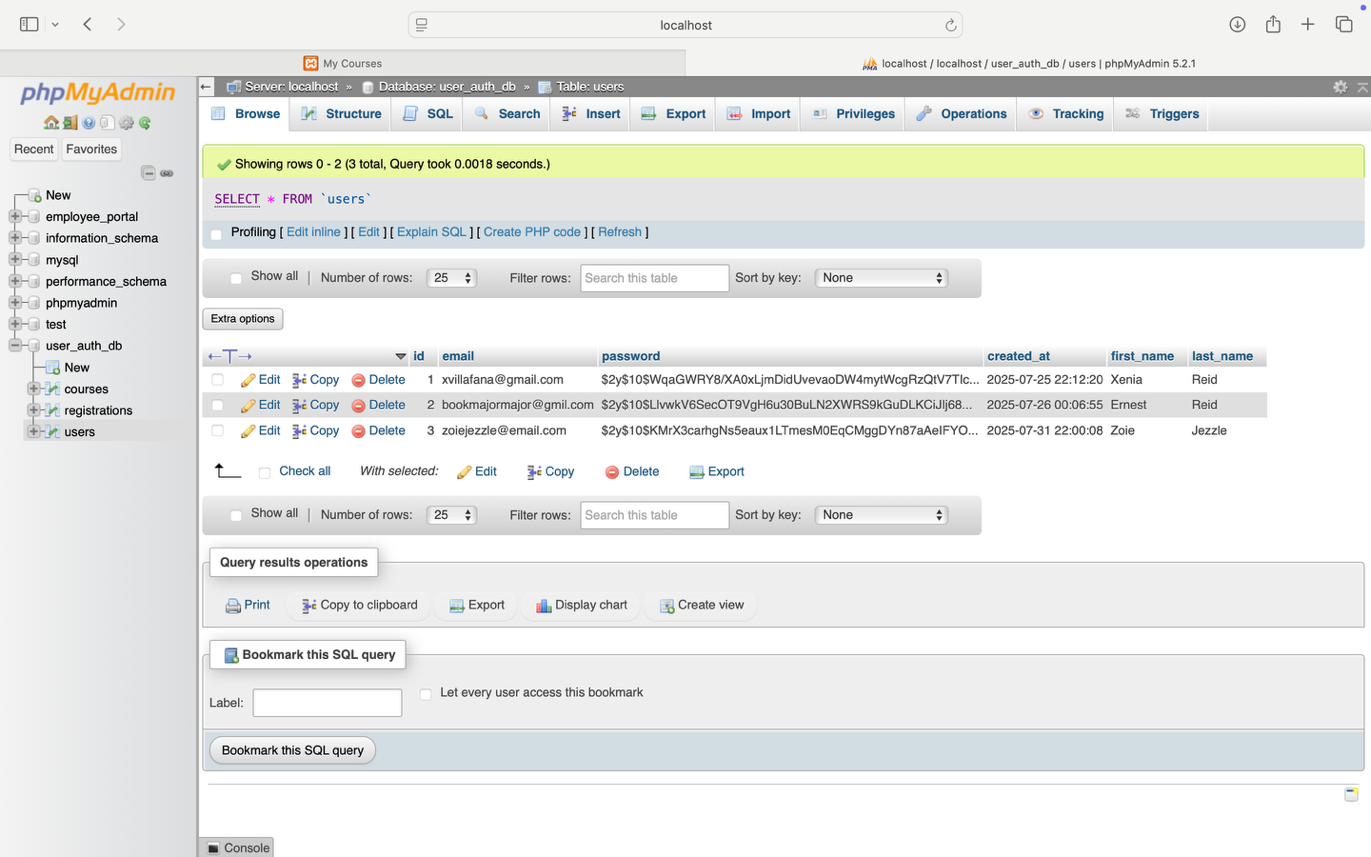
August 4, 2025

**Final MySQL Databases**

User\_auth\_db



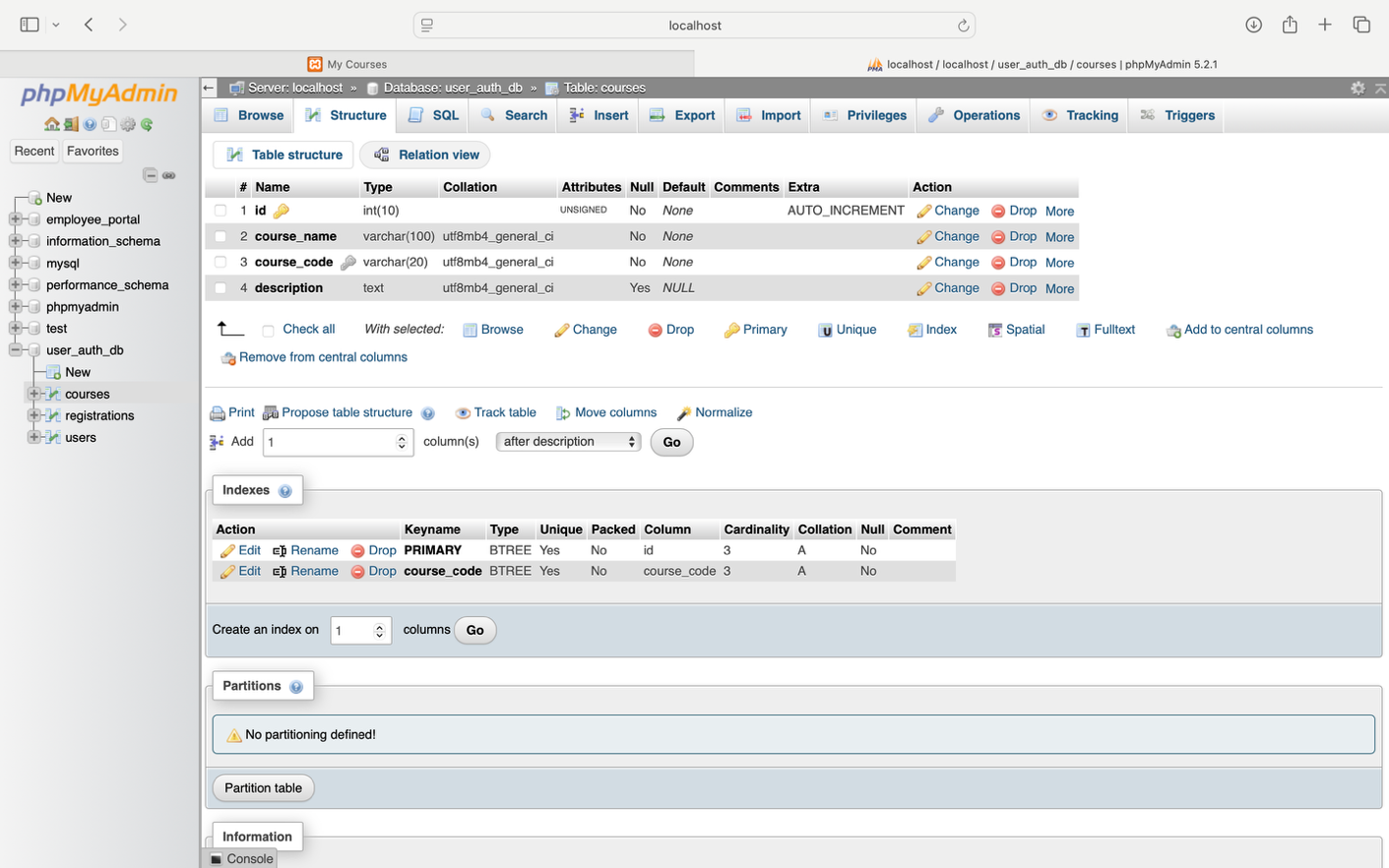
Users Table

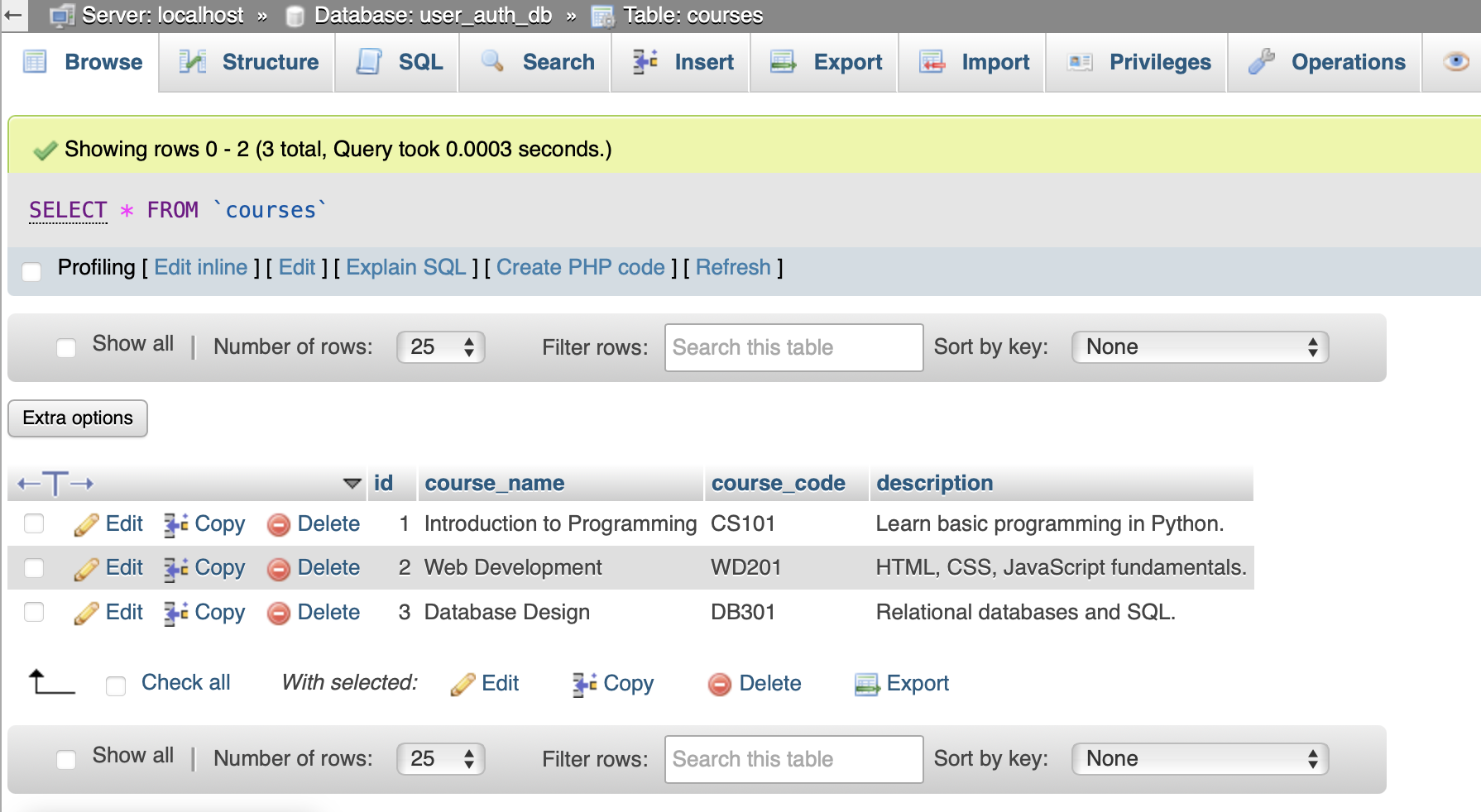


Registrations Table:

A screenshot of a computer

AI-generated content may be incorrect.

Courses Table:  
.



**Final PHP Codes**

Register.php

<!DOCTYPE html>

<html>

<head>

<title>Register</title>

</head>

<body>

<h2>User Registration</h2>

<form action="register\_process.php" method="POST">

<label>First Name:</label><br>

<input type="text" name="first\_name" required><br><br>

<label>Last Name:</label><br>

<input type="text" name="last\_name" required><br><br>

<label>Email:</label><br>

<input type="email" name="email" required><br><br>

<label>Password:</label><br>

<input type="password" name="password" required><br><br>

<button type="submit">Register</button>

</form>

<p>Already have an account? <a href="login.php">Login</a></p>

</body>

</html>

Index.php

<!DOCTYPE html>

<html>

<head>

<title>Welcome</title>

</head>

<body>

<h1>Welcome to Our Online Course Enrollment System </h1>

<a href="register.php">Register</a> | <a href="login.php">Login</a>

</body>

</html>

Db.php

<?php

$servername = "localhost";

$username = "root";

$password = "";

$dbname = "user\_auth\_db";

$conn = new mysqli($servername, $username, $password, $dbname);

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

?>

Login.php

<!DOCTYPE html>

<html>

<head>

<title>Login</title>

</head>

<body>

<h2>User Login</h2>

<form action="login\_process.php" method="POST">

<label>Email:</label><br>

<input type="email" name="email" required><br><br>

<label>Password:</label><br>

<input type="password" name="password" required><br><br>

<button type="submit">Login</button>

</form>

<br>

<button onclick="window.location.href='register.php';">Back to Register</button>

</body>

</html>

Register\_process.php

<?php

error\_reporting(E\_ALL);

ini\_set('display\_errors', 1);

require 'db.php';

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

// Get form values

$first\_name = $\_POST['first\_name'];

$last\_name = $\_POST['last\_name'];

$email = $\_POST['email'];

$password = password\_hash($\_POST['password'], PASSWORD\_DEFAULT);

$check\_sql = "SELECT id FROM users WHERE email = ?";

$check\_stmt = $conn->prepare($check\_sql);

$check\_stmt->bind\_param("s", $email);

$check\_stmt->execute();

$check\_stmt->store\_result();

//Check if email already exists

if ($check\_stmt->num\_rows > 0) {

// Email exists - show error

echo "Error: This email is already registered.<br><br>";

echo "<a href='register.php' style='padding:8px 12px; background:#dc3545; color:#fff; text-decoration:none; border-radius:4px;'>Return to Registration</a>";

$check\_stmt->close();

$conn->close();

exit();

}

$check\_stmt->close();

// Prepare and bind

$sql = "INSERT INTO users (first\_name, last\_name, email, password) VALUES (?, ?, ?, ?)";

$stmt = $conn->prepare($sql);

$stmt->bind\_param("ssss", $first\_name, $last\_name, $email, $password);

if ($stmt->execute()) {

echo "Registration successful. <a href='login.php'>Login here</a>";

} else {

echo "Error: " . $stmt->error;

}

$stmt->close();

$conn->close();

?>

Login\_process.php

<?php

session\_start();

require 'db.php';

$email = $\_POST['email'];

$password = $\_POST['password'];

$sql = "SELECT \* FROM users WHERE email = ?";

$stmt = $conn->prepare($sql);

$stmt->bind\_param("s", $email);

$stmt->execute();

$result = $stmt->get\_result();

if ($result->num\_rows === 1) {

$user = $result->fetch\_assoc();

if (password\_verify($password, $user['password'])) {

// Save user info in session

$\_SESSION['user\_id'] = $user['id'];

$\_SESSION['first\_name'] = $user['first\_name'];

$\_SESSION['last\_name'] = $user['last\_name'];

// Redirect to courses page after successful login

header("Location: courses.php");

exit();

} else {

echo "Invalid password.<br><a href='login.php'>Return to Login</a>";

}

} else {

echo "No user found with that email.<br><a href='login.php'>Return to Login</a>";

}

$stmt->close();

$conn->close();

?>

Courses.php

<?php

session\_start();

require 'db.php';

// Redirect to login if not logged in

if (!isset($\_SESSION['user\_id'])) {

header("Location: login.php");

exit();

}

$user\_id = $\_SESSION['user\_id'];

$first\_name = $\_SESSION['first\_name'];

$last\_name = $\_SESSION['last\_name'];

// Handle course registration

if ($\_SERVER['REQUEST\_METHOD'] === 'POST' && isset($\_POST['course\_id'])) {

$course\_id = intval($\_POST['course\_id']);

// Check if already registered for the course

$check = $conn->prepare("SELECT \* FROM registrations WHERE user\_id = ? AND course\_id = ?");

$check->bind\_param("ii", $user\_id, $course\_id);

$check->execute();

$check\_result = $check->get\_result();

if ($check\_result->num\_rows === 0) {

// Register user for course

$register = $conn->prepare("INSERT INTO registrations (user\_id, course\_id) VALUES (?, ?)");

$register->bind\_param("ii", $user\_id, $course\_id);

if ($register->execute()) {

$message = "Successfully registered for the course!";

} else {

$message = "Error registering for the course: " . $conn->error;

}

$register->close();

} else {

$message = "You are already registered for this course.";

}

$check->close();

}

// Fetch all available courses

$courses = [];

$result = $conn->query("SELECT \* FROM courses ORDER BY course\_code ASC");

if ($result) {

while ($row = $result->fetch\_assoc()) {

$courses[] = $row;

}

}

?>

<!DOCTYPE html>

<html>

<head>

<title>Available Courses</title>

</head>

<body>

<h1>Welcome, <?= htmlspecialchars($first\_name) ?> <?= htmlspecialchars($last\_name) ?>!</h1>

<p><a href="my\_courses.php">My Courses</a> | <a href="logout.php">Logout</a></p>

<?php if (isset($message)) : ?>

<p><strong><?= htmlspecialchars($message) ?></strong></p>

<?php endif; ?>

<h2>Available Courses</h2>

<?php if (count($courses) > 0): ?>

<table border="1" cellpadding="10">

<thead>

<tr>

<th>Course Code</th>

<th>Course Name</th>

<th>Action</th>

</tr>

</thead>

<tbody>

<?php foreach ($courses as $course): ?>

<tr>

<td><?= htmlspecialchars($course['course\_code']) ?></td>

<td><?= htmlspecialchars($course['course\_name']) ?></td>

<td>

<form method="POST" action="courses.php" style="margin:0;">

<input type="hidden" name="course\_id" value="<?= intval($course['id']) ?>">

<button type="submit">Register</button>

</form>

</td>

</tr>

<?php endforeach; ?>

</tbody>

</table>

<?php else: ?>

<p>No courses available at this time.</p>

<?php endif; ?>

</body>

</html>

<?php

$conn->close();

?>

My\_courses.php

<?php

ini\_set('display\_errors', 1);

ini\_set('display\_startup\_errors', 1);

error\_reporting(E\_ALL);

session\_start();

require 'db.php';

if (!isset($\_SESSION['user\_id'])) {

header("Location: login.php");

exit();

}

$user\_id = $\_SESSION['user\_id'];

$first\_name = $\_SESSION['first\_name'];

$last\_name = $\_SESSION['last\_name'];

$message = '';

if ($\_SERVER['REQUEST\_METHOD'] === 'POST' && isset($\_POST['drop\_course\_id'])) {

$drop\_course\_id = intval($\_POST['drop\_course\_id']);

$stmt = $conn->prepare("DELETE FROM registrations WHERE user\_id = ? AND course\_id = ?");

if (!$stmt) {

die("Prepare failed: (" . $conn->errno . ") " . $conn->error);

}

$stmt->bind\_param("ii", $user\_id, $drop\_course\_id);

if (!$stmt->execute()) {

$message = "Error dropping course: " . $stmt->error;

} else {

$message = "Course dropped successfully.";

}

$stmt->close();

}

// Fetch registered courses

$stmt = $conn->prepare("

SELECT c.id, c.course\_code, c.course\_name

FROM courses c

INNER JOIN registrations r ON c.id = r.course\_id

WHERE r.user\_id = ?

ORDER BY c.course\_code ASC

");

if (!$stmt) {

die("Prepare failed: (" . $conn->errno . ") " . $conn->error);

}

$stmt->bind\_param("i", $user\_id);

if (!$stmt->execute()) {

die("Execute failed: (" . $stmt->errno . ") " . $stmt->error);

}

$result = $stmt->get\_result();

$registered\_courses = [];

while ($row = $result->fetch\_assoc()) {

$registered\_courses[] = $row;

}

$stmt->close();

?>

<!DOCTYPE html>

<html>

<head>

<title>My Courses</title>

</head>

<body>

<h1>My Courses</h1>

<p>Welcome, <?= htmlspecialchars($first\_name) ?> <?= htmlspecialchars($last\_name) ?>!

<a href="courses.php">Available Courses</a> | <a href="logout.php">Logout</a></p>

<?php if ($message): ?>

<p><strong><?= htmlspecialchars($message) ?></strong></p>

<?php endif; ?>

<?php if (count($registered\_courses) > 0): ?>

<table border="1" cellpadding="10">

<thead>

<tr>

<th>Course Code</th>

<th>Course Name</th>

<th>Action</th>

</tr>

</thead>

<tbody>

<?php foreach ($registered\_courses as $course): ?>

<tr>

<td><?= htmlspecialchars($course['course\_code']) ?></td>

<td><?= htmlspecialchars($course['course\_name']) ?></td>

<td>

<form method="POST" action="my\_courses.php" style="margin:0;">

<input type="hidden" name="drop\_course\_id" value="<?= intval($course['id']) ?>">

<button type="submit" onclick="return confirm('Are you sure you want to drop this course?');">Drop</button>

</form>

</td>

</tr>

<?php endforeach; ?>

</tbody>

</table>

<?php else: ?>

<p>You are not registered for any courses.</p>

<?php endif; ?>

</body>

</html>

<?php

$conn->close();

?>

Delete\_course.php

<?php

session\_start();

require 'db.php';

$user\_id = 1;

if ($\_SERVER['REQUEST\_METHOD'] == 'POST' && isset($\_POST['course\_id'])) {

$course\_id = $\_POST['course\_id'];

$delete = $conn->prepare("DELETE FROM registrations WHERE user\_id = ? AND course\_id = ?");

$delete->bind\_param("ii", $user\_id, $course\_id);

$delete->execute();

echo "Course dropped.<br><a href='my\_courses.php'>Back to My Courses</a>";

}

?>

Logout.php

<?php

session\_start();

session\_unset();

session\_destroy();

header("Location: login.php");

exit();

?>