**GANPAT UNIVERSITY**

**U.V. PATEL COLLEGE OF ENGINEERING**

B.Tech 6th Semester CE/IT

2CEIT6PE1: Web Technology

**Practical-8**

**Aim:** **Perform following programs of PHP with database.**

**Exercise-1:**

Create Login module for Student with registration page, login page, welcome page, change password page and logout page.

[Note: Student’s registration fields Enrollment, Name, Branch, Password, Photo]

**Code:**

**Config.php**

<?php

session\_start();

$servername = "localhost";

$username = "root";

$password = "";

$dbname = "student\_login\_system";

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

if ($conn->connect\_error) {

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

}

function hashPassword($password) {

return password\_hash($password, PASSWORD\_DEFAULT);

}

function verifyPassword($password, $hash) {

return password\_verify($password, $hash);

}

?>

**register.php:**

<?php

include 'config.php';

if ($\_SERVER["REQUEST\_METHOD"] == "POST") {

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

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

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

$password = hashPassword($\_POST['password']);

$photo = $\_FILES['photo']['name'];

$target = "uploads/" . basename($photo);

if (move\_uploaded\_file($\_FILES['photo']['tmp\_name'], $target)) {

$sql = "INSERT INTO students (enrollment, name, branch, password, photo) VALUES ('$enrollment', '$name', '$branch', '$password', '$target')";

if ($conn->query($sql) === TRUE) {

$\_SESSION['message'] = "Registration successful! Please log in.";

header('Location: login.php');

} else {

$\_SESSION['error'] = "Error: " . $sql . "<br>" . $conn->error;

}

} else {

$\_SESSION['error'] = "Failed to upload photo.";

}

}

?>

<?php include 'templates/header.php'; ?>

<div class="container mt-5">

<h2 class="text-center">Register</h2>

<div class="card">

<div class="card-body">

<form method="POST" enctype="multipart/form-data" class="mt-4">

<div class="mb-3">

<label for="enrollment" class="form-label">Enrollment</label>

<input type="text" class="form-control" id="enrollment" name="enrollment" required>

</div>

<div class="mb-3">

<label for="name" class="form-label">Name</label>

<input type="text" class="form-control" id="name" name="name" required>

</div>

<div class="mb-3">

<label for="branch" class="form-label">Branch</label>

<input type="text" class="form-control" id="branch" name="branch" required>

</div>

<div class="mb-3">

<label for="password" class="form-label">Password</label>

<input type="password" class="form-control" id="password" name="password" required>

</div>

<div class="mb-3">

<label for="photo" class="form-label">Photo</label>

<input type="file" class="form-control" id="photo" name="photo" required>

</div>

<button type="submit" class="btn btn-primary btn-block">Register</button>

</form>

</div>

</div>

</div>

<?php include 'templates/footer.php'; ?>

**Login.php:**

<?php

include 'config.php';

if ($\_SERVER["REQUEST\_METHOD"] == "POST") {

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

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

$sql = "SELECT \* FROM students WHERE enrollment = '$enrollment'";

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

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

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

if (verifyPassword($password, $student['password'])) {

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

$\_SESSION['enrollment'] = $student['enrollment'];

$\_SESSION['name'] = $student['name'];

$\_SESSION['photo'] = $student['photo'];

header('Location: welcome.php');

} else {

$\_SESSION['error'] = "Invalid password.";

}

} else {

$\_SESSION['error'] = "Invalid enrollment number.";

}

}

?>

<?php include 'templates/header.php'; ?>

<div class="container mt-5">

<h2 class="text-center">Login</h2>

<div class="card">

<div class="card-body">

<form method="POST" class="mt-4">

<div class="mb-3">

<label for="enrollment" class="form-label">Enrollment</label>

<input type="text" class="form-control" id="enrollment" name="enrollment" required>

</div>

<div class="mb-3">

<label for="password" class="form-label">Password</label>

<input type="password" class="form-control" id="password" name="password" required>

</div>

<button type="submit" class="btn btn-primary btn-block">Login</button>

</form>

</div>

</div>

</div>

<?php include 'templates/footer.php'; ?>

**Logout.php:**

<?php

session\_start();

session\_unset();

session\_destroy();

header('Location: login.php');

?>

**Welcome.php:**

<?php

include 'config.php';

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

header('Location: login.php');

exit;

}

?>

<?php include 'templates/header.php'; ?>

<div class="container mt-5 text-center">

<h2>Welcome, <?php echo $\_SESSION['name']; ?>!</h2>

<img src="<?php echo $\_SESSION['photo']; ?>" alt="Profile Photo" class="img-thumbnail rounded-circle img-center">

<p>This is the welcome page.</p>

<div class="welcome-buttons mt-3">

<a href="change\_password.php" class="btn btn-secondary">Change Password</a>

<a href="logout.php" class="btn btn-danger">Logout</a>

</div>

</div>

<?php include 'templates/footer.php'; ?>

**Change\_password.php:**

<?php

include 'config.php';

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

header('Location: login.php');

exit;

}

if ($\_SERVER["REQUEST\_METHOD"] == "POST") {

$current\_password = $\_POST['current\_password'];

$new\_password = $\_POST['new\_password'];

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

$sql = "SELECT password FROM students WHERE id = '$student\_id'";

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

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

if (verifyPassword($current\_password, $student['password'])) {

$new\_password\_hashed = hashPassword($new\_password);

$sql = "UPDATE students SET password = '$new\_password\_hashed' WHERE id = '$student\_id'";

if ($conn->query($sql) === TRUE) {

$\_SESSION['message'] = "Password changed successfully!";

} else {

$\_SESSION['error'] = "Error updating password: " . $conn->error;

}

} else {

$\_SESSION['error'] = "Current password is incorrect.";

}

}

?>

<?php include 'templates/header.php'; ?>

<div class="container mt-5">

<h2 class="text-center">Change Password</h2>

<div class="card">

<div class="card-body">

<form method="POST" class="mt-4">

<div class="mb-3">

<label for="current\_password" class="form-label">Current Password</label>

<input type="password" class="form-control" id="current\_password" name="current\_password" required>

</div>

<div class="mb-3">

<label for="new\_password" class="form-label">New Password</label>

<input type="password" class="form-control" id="new\_password" name="new\_password" required>

</div>

<button type="submit" class="btn btn-primary btn-block">Change Password</button>

</form>

</div>

</div>

</div>

<?php include 'templates/footer.php'; ?>

**Header.php:**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Student Login System</title>

<!-- <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/5.1.3/css/bootstrap.min.css"> -->

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JMhjY6hW+ALEwIH" crossorigin="anonymous">

<link rel="stylesheet" href="../static/css/styles.css">

</head>

<body>

<nav class="navbar navbar-expand-lg navbar-light bg-light">

<div class="container-fluid">

<a class="navbar-brand" href="#">Student Login System</a>

<button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">

<span class="navbar-toggler-icon"></span>

</button>

<div class="collapse navbar-collapse justify-content-center" id="navbarNav">

<ul class="navbar-nav">

<li class="nav-item"><a class="nav-link" href="../welcome.php">Welcome</a></li>

<li class="nav-item"><a class="nav-link" href="../change\_password.php">Change Password</a></li>

<li class="nav-item"><a class="nav-link" href="../logout.php">Logout</a></li>

<li class="nav-item"><a class="nav-link" href="index.php">Admin Panel</a></li>

</ul>

</div>

</div>

</nav>

<div class="container mt-4">

<?php if (isset($\_SESSION['message'])): ?>

<div class="alert alert-success"><?php echo $\_SESSION['message']; unset($\_SESSION['message']); ?></div>

<?php endif; ?>

<?php if (isset($\_SESSION['error'])): ?>

<div class="alert alert-danger"><?php echo $\_SESSION['error']; unset($\_SESSION['error']); ?></div>

<?php endif; ?>

**Footer.php:**

</div>

<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js" integrity="sha384-YvpcrYf0tY3lHB60NNkmXc5s9fDVZLESaAA55NDzOxhy9GkcIdslK1eN7N6jIeHz" crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.10.2/dist/umd/popper.min.js"></script>

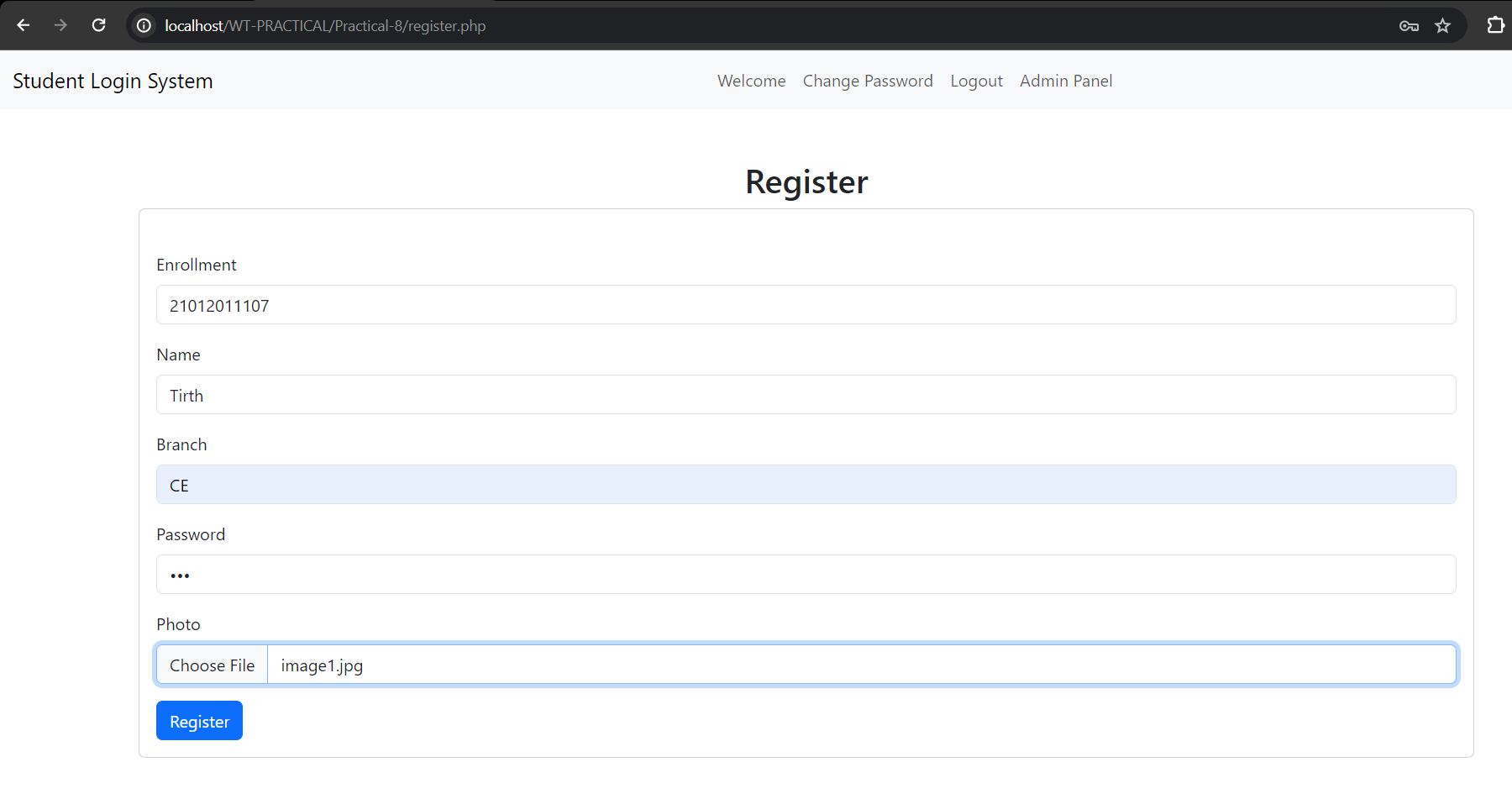
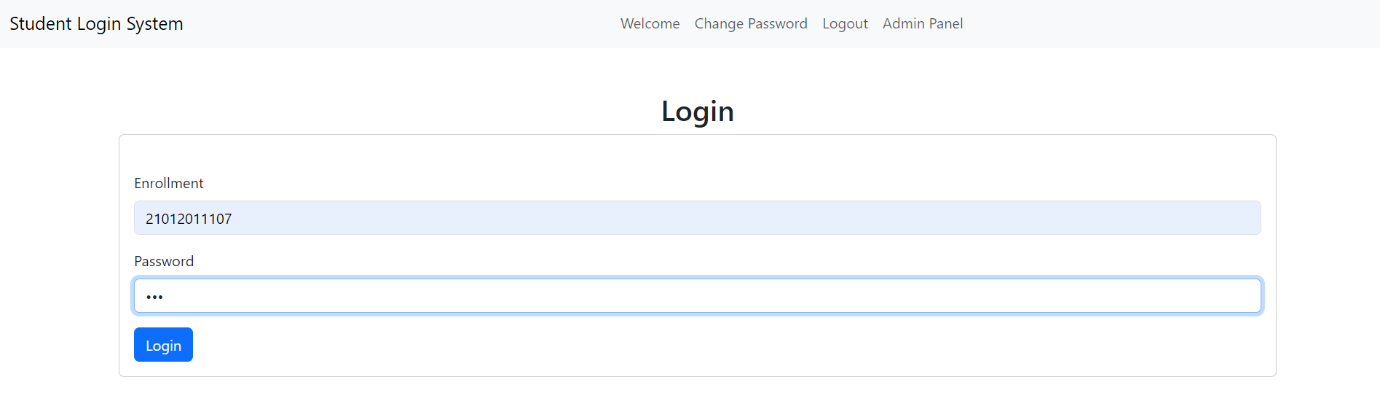
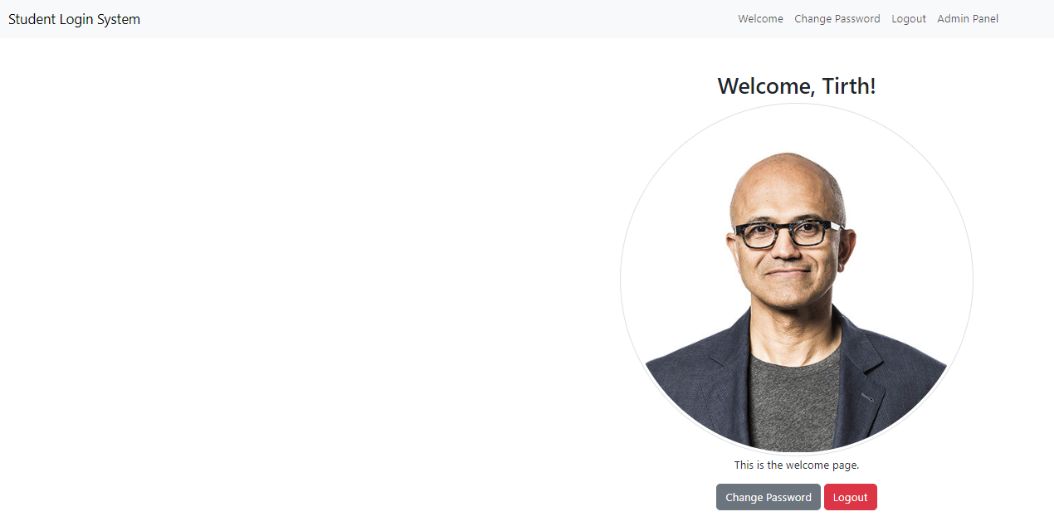
<script src="https://stackpath.bootstrapcdn.com/bootstrap/5.1.3/js/bootstrap.min.js"></script>

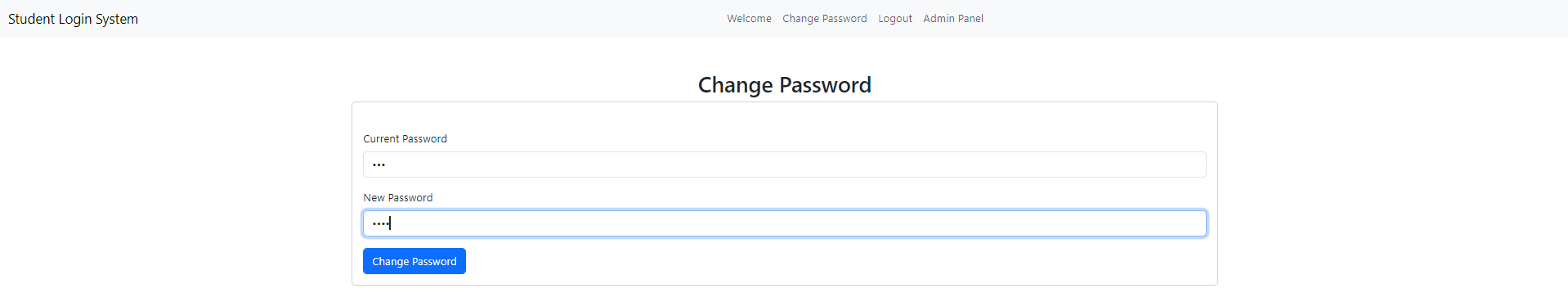
<script src="../static/js/scripts.js"></script>

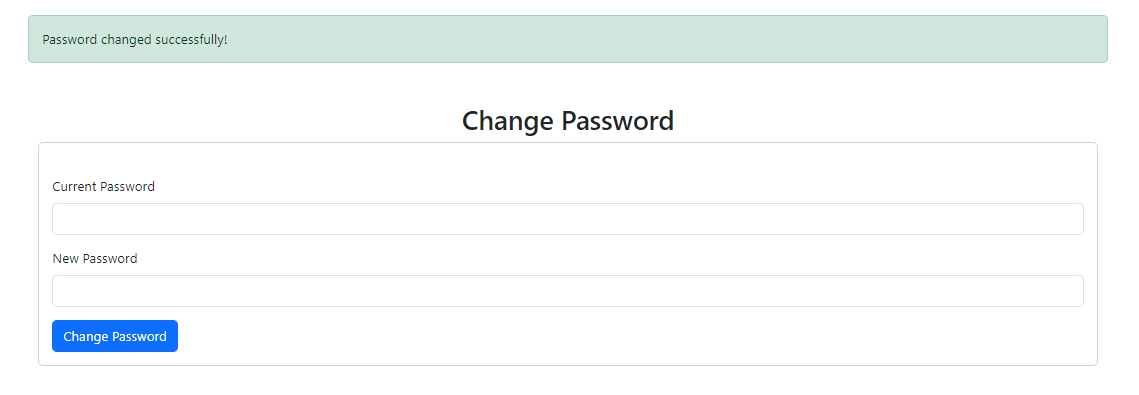
</body>

</html>

**Output:**

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**Exercise-2:**

Create Admin module to perform update, delete, display records with order by and search operation with Student table. [Note: Same as grid view design]

**Code:**

**Config.php:**

<?php

session\_start();

$servername = "localhost";

$username = "root";

$password = "";

$dbname = "student\_login\_system";

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

if ($conn->connect\_error) {

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

}

function hashPassword($password) {

return password\_hash($password, PASSWORD\_DEFAULT);

}

function verifyPassword($password, $hash) {

return password\_verify($password, $hash);

}

?>

**Index.php:**

<?php

include 'config.php';

$order = $\_GET['order'] ?? 'name';

$search = $\_GET['search'] ?? '';

$sql = "SELECT \* FROM students WHERE name LIKE '%$search%' OR enrollment LIKE '%$search%' ORDER BY $order";

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

?>

<?php include '../templates/header.php'; ?>

<div class="container mt-5">

<h2 class="text-center">Student Records</h2>

<div class="text-center mb-4">

<form method="GET" class="form-inline justify-content-center">

<input type="text" class="form-control mr-2" name="search" placeholder="Search by name or enrollment" value="<?php echo $search; ?>">

<button type="submit" class="btn btn-primary">Search</button>

</form>

</div>

<table class="table table-bordered table-striped">

<thead>

<tr>

<th><a href="?order=enrollment">Enrollment</a></th>

<th><a href="?order=name">Name</a></th>

<th><a href="?order=branch">Branch</a></th>

<th>Photo</th>

<th>Actions</th>

</tr>

</thead>

<tbody>

<?php while($row = $result->fetch\_assoc()): ?>

<tr>

<td><?php echo $row['enrollment']; ?></td>

<td><?php echo $row['name']; ?></td>

<td><?php echo $row['branch']; ?></td>

<td><img src="../<?php echo $row['photo']; ?>" alt="Profile Photo" class="img-thumbnail" width="100"></td>

<td>

<a href="update.php?id=<?php echo $row['id']; ?>" class="btn btn-warning">Edit</a>

<a href="delete.php?id=<?php echo $row['id']; ?>" class="btn btn-danger" onclick="return confirm('Are you sure you want to delete this record?');">Delete</a>

</td>

</tr>

<?php endwhile; ?>

</tbody>

</table>

</div>

<?php include '../templates/footer.php'; ?>

**Update.php:**

<?php

include 'config.php';

if ($\_SERVER["REQUEST\_METHOD"] == "POST") {

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

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

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

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

$photo = $\_FILES['photo']['name'];

$target = "../uploads/" . basename($photo);

if ($photo) {

move\_uploaded\_file($\_FILES['photo']['tmp\_name'], $target);

$sql = "UPDATE students SET enrollment='$enrollment', name='$name', branch='$branch', photo='$target' WHERE id='$id'";

} else {

$sql = "UPDATE students SET enrollment='$enrollment', name='$name', branch='$branch' WHERE id='$id'";

}

if ($conn->query($sql) === TRUE) {

$\_SESSION['message'] = "Record updated successfully!";

header('Location: index.php');

} else {

$\_SESSION['error'] = "Error updating record: " . $conn->error;

}

} else {

$id = $\_GET['id'];

$sql = "SELECT \* FROM students WHERE id='$id'";

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

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

}

?>

<?php include '../templates/header.php'; ?>

<div class="container mt-5">

<h2 class="text-center">Update Student Record</h2>

<div class="card">

<div class="card-body">

<form method="POST" enctype="multipart/form-data" class="mt-4">

<input type="hidden" name="id" value="<?php echo $student['id']; ?>">

<div class="mb-3">

<label for="enrollment" class="form-label">Enrollment</label>

<input type="text" class="form-control" id="enrollment" name="enrollment" value="<?php echo $student['enrollment']; ?>" required>

</div>

<div class="mb-3">

<label for="name" class="form-label">Name</label>

<input type="text" class="form-control" id="name" name="name" value="<?php echo $student['name']; ?>" required>

</div>

<div class="mb-3">

<label for="branch" class="form-label">Branch</label>

<input type="text" class="form-control" id="branch" name="branch" value="<?php echo $student['branch']; ?>" required>

</div>

<div class="mb-3">

<label for="photo" class="form-label">Photo</label>

<input type="file" class="custom-file-input" id="photo" name="photo">

<label class="custom-file-label" for="photo">Choose file</label>

</div>

<button type="submit" class="btn btn-primary btn-block">Update</button>

</form>

</div>

</div>

</div>

<?php include '../templates/footer.php'; ?>

**Delete.php:**

<?php

include 'config.php';

$id = $\_GET['id'];

$sql = "DELETE FROM students WHERE id='$id'";

if ($conn->query($sql) === TRUE) {

$\_SESSION['message'] = "Record deleted successfully!";

} else {

$\_SESSION['error'] = "Error deleting record: " . $conn->error;

}

header('Location: index.php');

?>

**Search.php:**

<?php

include 'config.php';

$search = $\_GET['search'] ?? '';

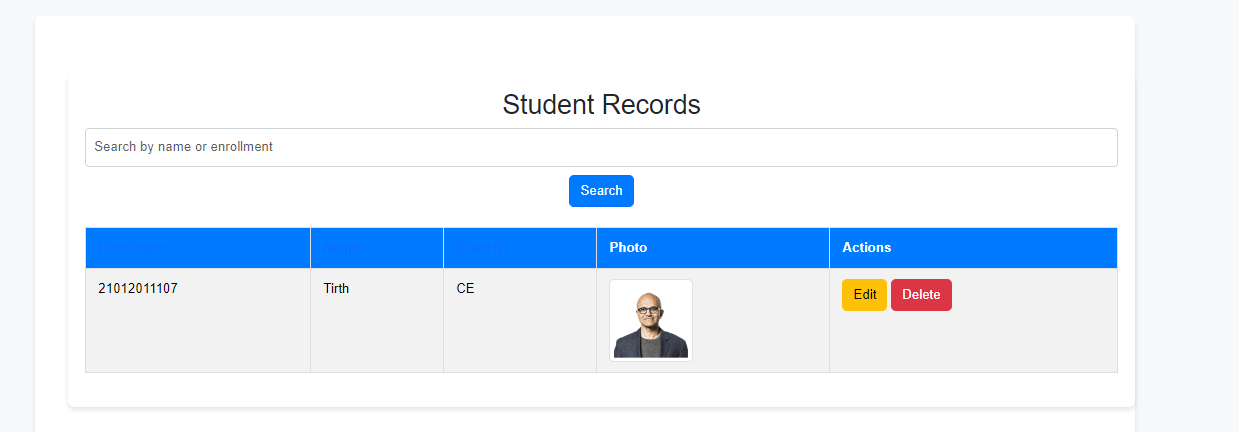
$sql = "SELECT \* FROM students WHERE name LIKE '%$search%' OR enrollment LIKE '%$search%' ORDER BY name";

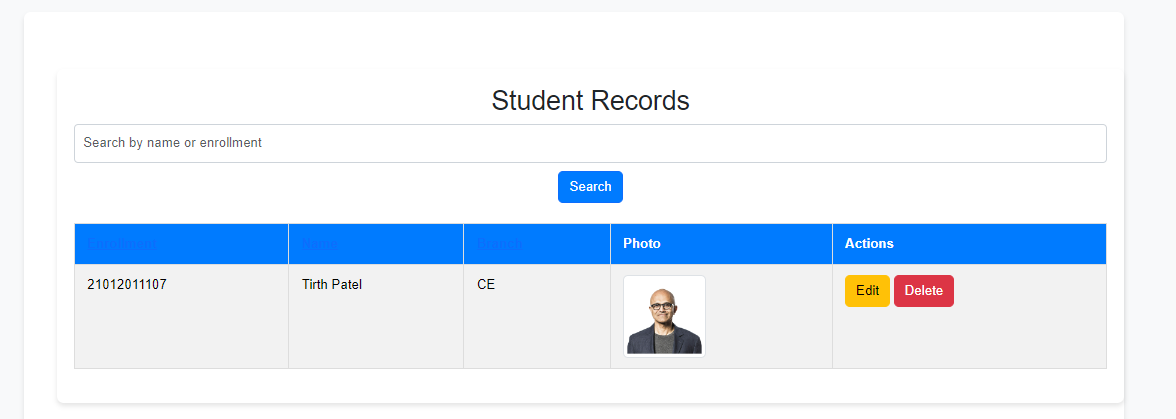
$result = $conn->query($sql);

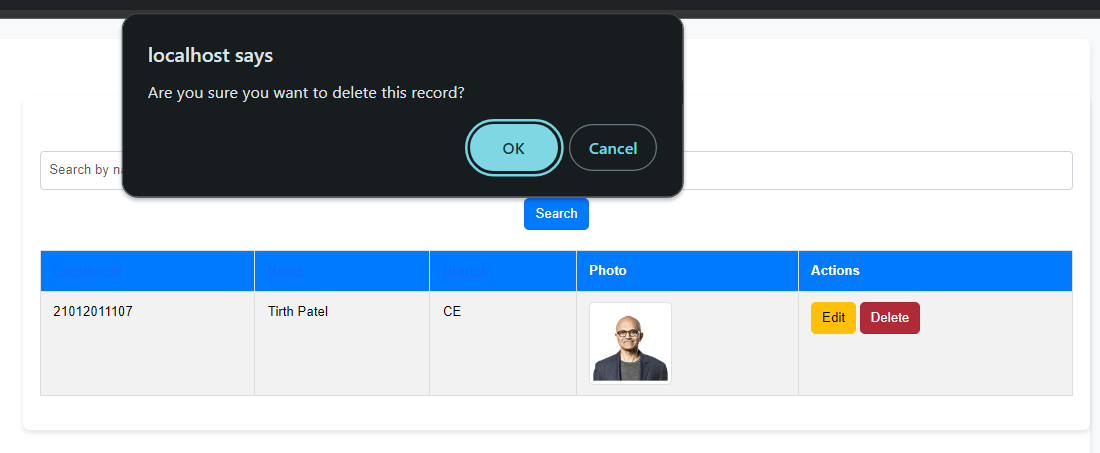
include 'index.php';

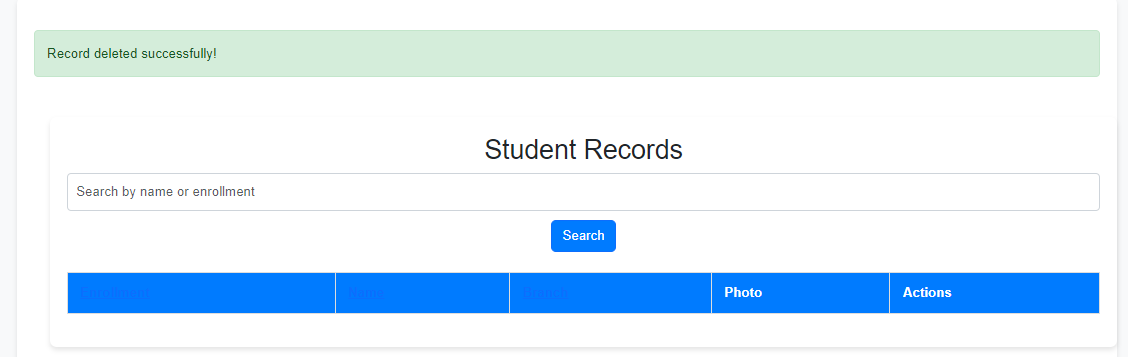
?>

**Output:**

****

****

****

****