LAB 5 : SOURCE CODE

**<!DOCTYPE html>**

**<html lang="en">**

**<head>**

**<meta charset="UTF-8">**

**<meta name="viewport" content="width=device-width, initial-scale=1.0">**

**<title>Lab Exercise 5 - PHP + JSON + AJAX</title>**

**</head>**

**<body>**

**<h2>PHP + JSON + AJAX Example</h2>**

**<form id="userForm">**

**<label for="name">Enter your name:</label>**

**<input type="text" id="name" name="name" required>**

**<button type="submit">Submit</button>**

**</form>**

**<h3>Response:</h3>**

**<pre id="output"></pre> <!-- JSON output will appear here -->**

**<script>**

**document.getElementById('userForm').addEventListener('submit', function(event) {**

**event.preventDefault(); // prevent page reload**

**const name = document.getElementById('name').value;**

**// Send data to PHP using Fetch API**

**fetch('process.php', {**

**method: 'POST',**

**headers: {**

**'Content-Type': 'application/json'**

**},**

**body: JSON.stringify({ name: name })**

**})**

**.then(response => {**

**if (!response.ok) {**

**throw new Error("Network response was not ok");**

**}**

**return response.json();**

**})**

**.then(data => {**

**// Display JSON directly in <pre>**

**document.getElementById('output').textContent = JSON.stringify(data, null, 2);**

**})**

**.catch(error => {**

**document.getElementById('output').textContent = "Error occurred: " + error.message;**

**});**

**});**

**</script>**

**</body>**

**</html>**

**<?php**

**// Set header to tell browser it's JSON**

**header('Content-Type: application/json');**

**// Get raw POST data**

**$input = json\_decode(file\_get\_contents('php://input'), true);**

**// Check if name exists**

**if (isset($input['name']) && !empty(trim($input['name']))) {**

**$name = htmlspecialchars(trim($input['name']));**

**$response = [**

**"status" => "success",**

**"message" => "Welcome, $name!"**

**];**

**} else {**

**$response = [**

**"status" => "error",**

**"message" => "Name cannot be empty!"**

**];**

**}**

**// Send JSON response**

**echo json\_encode($response);**

**?>**