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**Class :** MSc(ICT) – Sem 3

**Subject :** 304 – Open Source Web Development

**Git Url :** <https://github.com/HenishaTechie/php_Assignment3>

1. **Develop a Shopping cart in PHP.**

**Admin/admin\_login.php**

<?php

// Start a session

session\_start();

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

    // Check the username and password (you should use a more secure authentication method)

    $username = "admin";

    $password = "admin";

    if ($\_POST["username"] == $username && $\_POST["password"] == $password) {

        $\_SESSION["user"] = $username;

        header("Location: admin\_dashboard.php");

        exit;

    } else {

        $error = "Invalid login credentials.";

    }

}

?>

<!DOCTYPE html>

<html>

<head>

    <title>Admin Login</title>

</head>

<body>

    <h2>Admin Login</h2>

    <form method="post">

        Username: <input type="text" name="username"><br><br>

        Password: <input type="password" name="password"><br>

        <input type="submit" value="Login">

    </form>

    <?php if (isset($error)) { echo $error; } ?>

</body>

</html>



**Admin/admin\_dashboard.php**

<?php

session\_start();

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

    header("Location: admin\_login.php");

    exit;

}

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

$servername = "localhost";

$username = "root";

$password = "root";

$database = "shopping\_cart";

$conn = mysqli\_connect($servername, $username, $password, $database);

if (!$conn) {

    die("Connection failed: " . mysqli\_connect\_error());

}

$sql = "SELECT \* FROM category";

$result = mysqli\_query($conn, $sql);

if (!$result) {

    die("Error: " . mysqli\_error($conn));

}

?>

<!DOCTYPE html>

<html>

<head>

    <title>Welcome</title>

</head>

<body>

<h2>Welcome, <?php echo $\_SESSION["user"]; ?></h2>

    <h2>Categories</h2>

    <table border="1">

        <tr>

            <th>Category ID</th>

            <th>Category Name</th>

            <th>Actions</th>

        </tr>

        <?php

        while ($row = mysqli\_fetch\_assoc($result)) {

            echo "<tr>";

            echo "<td>" . $row['cid'] . "</td>";

            echo "<td>" . $row['cname'] . "</td>";

            echo "<td><a href='update\_category.php?id=" . $row['cid'] . "'>Update</a></td>";

            echo "</tr>";

        }

        ?>

    </table>

    <p> <a href="manage\_categories.php">Add Categories</a><br>

    <a href="manage\_products.php">Manage Products</a><br>

    <a href="admin\_logout.php">Logout</a></p>

</body>

</html>

**output**



**Update\_category.php**

<?php

$servername = "localhost";

$username = "root";

$password = "root";

$database = "shopping\_cart";

$conn = mysqli\_connect($servername, $username, $password, $database);

if (!$conn) {

    die("Connection failed: " . mysqli\_connect\_error());

}

if (isset($\_GET['id'])) {

    $category\_id = $\_GET['id'];

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

        $new\_category\_name = $\_POST['new\_category\_name'];

        $sql = "UPDATE category SET cname = '$new\_category\_name' WHERE cid = $category\_id";

        if (mysqli\_query($conn, $sql)) {

            echo "Category updated successfully.";

            header('Location: admin\_dashboard.php');

        } else {

            echo "Error updating category: " . mysqli\_error($conn);

            header('Location: admin\_dashboard.php');

        }

    }

    $sql = "SELECT cname FROM category WHERE cid = $category\_id";

    $result = mysqli\_query($conn, $sql);

    $row = mysqli\_fetch\_assoc($result);

    $current\_category\_name = $row['cname'];

}

mysqli\_close($conn);

?>

<!DOCTYPE html>

<html>

<head>

    <title>Update Category</title>

</head>

<body>

    <h2>Update Category</h2>

    <?php if (isset($current\_category\_name)) { ?>

        <form method="post" action="">

            <label for="new\_category\_name">New Category Name:</label>

            <input type="text" name="new\_category\_name" id="new\_category\_name" value="<?php echo $current\_category\_name; ?>" required><br><br>

            <input type="submit" value="Update Category">

        </form>

    <?php } else {

        echo "Category not found.";

    } ?>

</body>

</html>

**Output**

****

**Manage \_products.php**

<?php

$servername = "localhost";

$username = "root";

$password = "root";

$database = "shopping\_cart";

$conn = mysqli\_connect($servername, $username, $password, $database);

if (!$conn) {

    die("Connection failed: " . mysqli\_connect\_error());

}

$sql = "SELECT p.pid, p.name, p.price, p.qty, p.img, c.cname

        FROM product p

        JOIN category c ON p.cid = c.cid";

$result = mysqli\_query($conn, $sql);

?>

<!DOCTYPE html>

<html>

<head>

    <title>Product List</title>

</head>

<body>

    <h2>Product List</h2>

    <table border="1">

        <tr>

            <th>Product ID</th>

            <th>Product Name</th>

            <th>Price</th>

            <th>Quantity</th>

            <th>Image</th>

            <th>Category</th>

        </tr>

        <?php

        while ($row = mysqli\_fetch\_assoc($result)) {

            echo "<tr>";

            echo "<td>" . $row['pid'] . "</td>";

            echo "<td>" . $row['cname'] . "</td>";

            echo "<td>" . $row['name'] . "</td>";

            echo "<td>" . $row['price'] . "</td>";

            echo "<td>" . $row['qty'] . "</td>";

            echo "<td><img src='" . $row['img'] . "' alt='" . $row['name'] . "' width='100' height='100'></td>";

            echo "</tr>";

        }

        ?>

    </table>

    <p><a href="add\_product.php">Add New Product</a></p>

    <p><a href="admin\_dashboard.php">Back to dashboard</a></p>

</body>

</html>

**Output**

****

**Add\_product.php**

<!DOCTYPE html>

<html>

<head>

    <title>Insert Product</title>

</head>

<body>

    <h2>Insert Product</h2>

    <form method="post"

     enctype="multipart/form-data">

        <label for="category">Category:</label>

        <select name="category" id="category">

            <?php

            $servername = "localhost";

            $username = "root";

            $password = "root";

            $database = "shopping\_cart";

            $conn = mysqli\_connect($servername, $username, $password, $database);

            if (!$conn) {

                die("Connection failed: " . mysqli\_connect\_error());

            }

            $sql = "SELECT \* FROM category";

            $result = mysqli\_query($conn, $sql);

            while ($row = mysqli\_fetch\_assoc($result)) {

                echo "<option value='" . $row['cid'] . "'>" . $row['cname'] . "</option>";

            }

            ?>

        </select><br><br>

        <label for="name">Product Name:</label>

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

        <label for="qty">Quantity:</label>

        <input type="number" name="qty" id="qty" required><br><br>

        <label for="price">Price:</label>

        <input type="number" step="0.01" name="price" id="price" required><br><br>

        <label for="image">Image:</label>

        <input type="file" name="image" id="image" accept="image/\*" required><br><br>

        <input type="submit" value="Insert Product">

    </form>

    <a href="manage\_products.php">Back to List of Product </a>

    <p><a href="admin\_dashboard.php">Back to dashboard</a></p>

</body>

</html>

<?php

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

    $cid = $\_POST['category'];

    $name = $\_POST['name'];

    $qty = $\_POST['qty'];

    $price = $\_POST['price'];

    $targetDir = "uploads/";

    $targetFile = $targetDir . basename($\_FILES['image']['name']);

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

        $image = $targetFile;

        $sql = "INSERT INTO product (cid, name, qty, price, img) VALUES ($cid, '$name', $qty, $price, '$image')";

        if (mysqli\_query($conn, $sql)) {

            echo "Product inserted successfully.";

            header('Location: manage\_products.php');

        } else {

            echo "Error inserting product: " . mysqli\_error($conn);

            header('Location: manage\_products.php');

        }

    } else {

        echo "Error uploading the image.";

    }

}

?>

**Output**

****

**admin\_logout.php**

<?php

session\_start();

session\_destroy();

header("Location: admin\_login.php");

exit;

?>

**User/registration.php**

<?php

$servername = "localhost";

$username = "root";

$password = "root";

$database = "shopping\_cart";

$conn = mysqli\_connect($servername, $username, $password, $database);

if (!$conn) {

    die("Connection failed: " . mysqli\_connect\_error());

}

// User registration logic

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

    $name = $\_POST['name'];

    $email = $\_POST['email'];

    $password =$\_POST['password'];

    $sql = "INSERT INTO user (name, email, password) VALUES ('$name', '$email', '$password')";

    if (mysqli\_query($conn, $sql)) {

        echo "Registration successful";

        header('Location: ulogin.php');

    } else {

        echo "Error: " . mysqli\_error($conn);

    }

}

?>

<!DOCTYPE html>

<html>

<head>

    <title>Registration</title>

</head>

<body>

    <h2>Registration</h2>

    <form method="post" action="">

        <label for="name">Name:</label>

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

        <label for="email">Email:</label>

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

        <label for="password">Password:</label>

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

        <input type="submit" name="register" value="Register">

    </form>

</body>

</html>

**Output**

****

**ulogin.php**

<?php

session\_start();

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

    $username1 = $\_POST['username'];

    $password = $\_POST['password'];

    // Database connection

    $conn = mysqli\_connect("localhost", "root", "root", "shopping\_cart");

    if (!$conn) {

        die("Connection failed: " . mysqli\_connect\_error());

    }

    // Query to check both username and password

    $sql = "SELECT \* FROM user WHERE email = '$username1' AND password = '$password'";

    $result = mysqli\_query($conn, $sql);

    if (mysqli\_num\_rows($result) == 1) {

        $row = mysqli\_fetch\_assoc($result);

        $\_SESSION['username'] = $username1; // Store the username in the session

        header('Location: user.php'); // Redirect to a welcome page

    } else {

        echo "Login failed. Please try again.";

    }

    mysqli\_close($conn);

}

?>

<!DOCTYPE html>

<html>

<head>

    <title>Login</title>

</head>

<body>

    <h2>Login</h2>

    <form method="post" action="">

        <label for="username">Username:</label>

        <input type="text" name="username" id="username" required><br><br>

        <label for="password">Password:</label>

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

        <input type="submit" name="login" value="Login">

    </form>

    <p><a href="registration.php">Register</a></p>

</body>

</html>

**Output**

****

**User.php**

<?php

session\_start();

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

    header('Location: ulogin.php'); // Redirect to the login page if not logged in

    exit();

}

$username = $\_SESSION['username'];

// Database connection

$conn = mysqli\_connect("localhost", "root", "root", "shopping\_cart");

if (!$conn) {

    die("Connection failed: " . mysqli\_connect\_error());

}

// Retrieve the list of products from the database

$sql = "SELECT \* FROM product";

$result = mysqli\_query($conn, $sql);

?>

<!DOCTYPE html>

<html>

<head>

    <title>Welcome</title>

    <style>

        table {

            border-collapse: collapse;

            width: 80%;

        }

        table, th, td {

            border: 1px solid #ccc;

        }

        th, td {

            padding: 8px;

            text-align: center;

        }

        img {

            max-width: 100px;

            max-height: 100px;

        }

    </style>

</head>

<body>

    <h2>Welcome, <?php echo $username; ?>!</h2>

    <p><a href="logout1.php">Logout</a></p>

    <h3>Product List</h3>

    <table>

        <thead>

            <tr>

                <th>Product</th>

                <th>Image</th>

                <th>Name</th>

                <th>Price</th>

                <th>Action</th>

            </tr>

        </thead>

        <tbody>

            <?php

            while ($row = mysqli\_fetch\_assoc($result)) {

                echo "<tr>";

                echo "<td>" . $row['pid'] . "</td>";

                echo "<td><img src='" . $row['img'] . "' alt='" . $row['name'] . "'></td>";

                echo "<td>" . $row['name'] . "</td>";

                echo "<td>$" . $row['price'] . "</td>";

                echo "<td><button>Add to Cart</button></td>";

                echo "</tr>";

            }

            ?>

        </tbody>

    </table>

</body>

</html>

**Logout1.php**

<?php

session\_destroy();

header('Location: ulogin.php');

?>

**2. Read data from students.xml file and store them in students table of MySQL.**

<?php

$servername = "localhost";

$username = "root";

$password = "root";

$database = "test";

$con = new mysqli($servername, $username, $password, $database);

if ($con->connect\_error) {

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

}

$xml = simplexml\_load\_file('student.xml');

if ($xml === false) {

    die('Failed to load XML file');

}

if (isset($xml->student) && count($xml->student) > 0) {

    foreach ($xml->student as $student) {

        $id = (int)$student->id;

        $name = (string)$student->name;

        $age = (int)$student->age;

        $gender = (string)$student->gender;

        echo "Name: $name, Age: $age, Gender: $gender<br>";

        $sql = "INSERT INTO student (id, name, age, gender) VALUES ('$id', '$name', '$age', '$gender')";

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

            echo "Record inserted successfully.<br>";

        } else {

            echo "Error: " . $sql . "<br>" . $con->error;

        }

    }

} else {

    echo "No 'student' elements found in the XML file.";

}

$con->close();

?>

**Student.xml**

<student>

    <student>

        <name>Hetvi</name>

        <age>20</age>

        <gender>Female</gender>

    </student>

</student>

**Output**

****

**3. Read data from students table of MySQL and store them in students.xml file.**

<?php

$servername = "localhost";

$username = "root";

$password = "root";

$database = "test";

$con = new mysqli($servername, $username, $password, $database);

if ($con->connect\_error) {

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

}

$sql = "SELECT \* FROM student";

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

if ($result->num\_rows > 0) {

    $xml = new SimpleXMLElement('<students></students>');

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

        $student = $xml->addChild('student');

        $student->addChild('id', $row['id']);

        $student->addChild('name', $row['name']);

        $student->addChild('age', $row['age']);

        $student->addChild('gender', $row['gender']);

    }

    $xml->asXML('student.xml');

    echo 'Data exported to student.xml file.';

} else {

    echo 'No data found in the students table.';

}

$con->close();

?>

**Students.xml**

<?xml version="1.0"?>

<students><student>

<id>1</id><name>Henisha</name><age>21</age><gender>female</gender></student><student>

<id>2</id><name>Nisha</name><age>20</age><gender>female</gender></student><student>

<id>5</id><name>Krunal</name><age>20</age><gender>male</gender></student><student>

<id>6</id><name>Krunal</name><age>20</age><gender>male</gender></student><student>

<id>7</id><name>Krunal</name><age>20</age><gender>male</gender></student></students>

**Output**



**4. List files in a directory.**

<?php

$directory = 'D:\xampp\htdocs\clg';

$files = scandir($directory);

$files = array\_diff($files, array('.', '..'));

echo '<ol>';

foreach ($files as $file) {

    echo '<li>' . $file . '</li>';

}

echo '</ol>';

?>

**Output**

****

**5.**  **Call express rest api in php.**

<?php

$apiUrl = 'http://localhost:8000/persons';

$ch = curl\_init($apiUrl);

curl\_setopt($ch, CURLOPT\_RETURNTRANSFER, true);

$response = curl\_exec($ch);

if (curl\_errno($ch)) {

    echo 'Curl error: ' . curl\_error($ch);

}

curl\_close($ch);

$data = json\_decode($response, true);

if ($data === null) {

    echo 'Error decoding JSON';

} else {

    echo '<h1>Call Express api in php.</h1>';

    echo '<table border="1">';

    echo '<tr>

              <th>Name</th>

              <th>Age</th>

              <th>City</th>

          </tr>';

    foreach ($data as $item) {

        echo '<tr>';

        echo '<td>' . $item['name'] . '</td>';

        echo '<td>' . $item['age'] . '</td>';

        echo '<td>' . $item['city'] . '</td>';

        echo '</tr>';

    }

    echo '</table>';

}

?>

**Output**



**6. Call php rest api in express.**

**Q6.php**

<?php

$users = array(

    array('id' => 1, 'name' => 'Henisha', 'email' => 'henisha@example.com'),

    array('id' => 2, 'name' => 'Hetvi', 'email' => 'hetvi@example.com'),

);

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

if ($\_SERVER['REQUEST\_METHOD'] === 'GET') {

    echo json\_encode($users);

} else {

    http\_response\_code(405);

    echo json\_encode(array('error' => 'Method not allowed'));

}

?>

**callapi.js**

const express = require('express');

const axios = require('axios');

const app = express();

const port = 3000;

app.get('/', async (req, res) => {

  try {

    const apiUrl = 'http://localhost/clg/Q6.php';

    const response = await axios.get(apiUrl);

    const tableHtml = `<table border="1">

                        <thead>

                            <tr>

                                <th>ID</th>

                                <th>Name</th>

                                <th>Email</th>

                            </tr>

                        </thead>

                        <tbody>

                            ${response.data.map(user => `

                                <tr>

                                    <td>${user.id}</td>

                                    <td>${user.name}</td>

                                    <td>${user.email}</td>

                                </tr>`).join('')}

                        </tbody>

                    </table>`;

    res.send(tableHtml);

  } catch (error) {

    console.error('Error calling PHP API:', error.message);

    res.status(500).send('Internal Server Error');

  }

});

app.listen(port, () => {

  console.log(`Express server is running on http://localhost:${port}`);

});

**Output**

****