

Practical Assignment – 3

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Stream: M.Sc. ICT 3

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Github Link = <https://github.com/MistryMeet23/Assignment-3-Node-PHP.git>

1) Develop a Shopping cart in PHP with following requirements:

- **Admin Site:**

- 1) Login**

```
<?php
session_start();
require_once 'db/db.php';
if ($_SERVER['REQUEST_METHOD'] === 'POST') {
    $username = $_POST['username'];
    $password = $_POST['password'];
    if ($username === 'admin' && $password === 'admin123') {
        $_SESSION['role'] = 'admin';
        header('Location: admin/index.php');
        exit;
    }
    $stmt = $conn->prepare("SELECT * FROM users WHERE username = ?");
    $stmt->bind_param("s", $username);
    $stmt->execute();
    $result = $stmt->get_result();
    if ($result->num_rows === 1) {
        $user = $result->fetch_assoc();
        if (password_verify($password, $user['password'])) {
            $_SESSION['username'] = $user['username'];
            $_SESSION['role'] = $user['role'];
            if ($user['role'] === 'admin') {
                header('Location: admin/index.php');
```

```
        } else {  
            header('Location: index.php');  
        }  
        exit();  
    } else {  
        $error = "Incorrect password!";  
    }  
} else {  
    $error = "Username not found!";  
}  
}  
?>  
<!DOCTYPE html>  
<html lang="en">  
<head>  
    <meta charset="UTF-8">  
    <meta name="viewport" content="width=device-width, initial-scale=1.0">  
    <title>Login - MG Shopping Mart</title>  
    <style>  
        body { font-family: Arial, sans-serif; background-color: #f4f4f4; margin: 0; padding: 0; }  
        .navbar { background-color: #007bff; padding: 15px; color: white; text-align: center; }  
        .container { width: 80%; max-width: 400px; margin: 50px auto; background: #fff; padding:  
20px; border-radius: 8px; box-shadow: 0 0 10px rgba(0, 0, 0, 0.1); }  
        input[type="text"], input[type="password"] { width: 100%; padding: 10px; margin: 10px 0;  
border: 1px solid #ccc; border-radius: 4px; }  
        input[type="submit"] { background-color: #007bff; color: white; padding: 10px; border:  
none; border-radius: 4px; cursor: pointer; }  
        .error { color: red; text-align: center; }  
        .success { color: green; text-align: center; }  
    </style>  
</head>
```

```

<body>

<div class="navbar"><h1>MG Shopping Mart</h1></div>

<div class="container">

    <h2>Login</h2>

    <?php if (isset($error)): ?><p class="error"><?php echo $error; ?></p><?php endif; ?>

    <form method="POST" action="">

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

        <label>Password:</label><input type="password" name="password" required><br/>

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

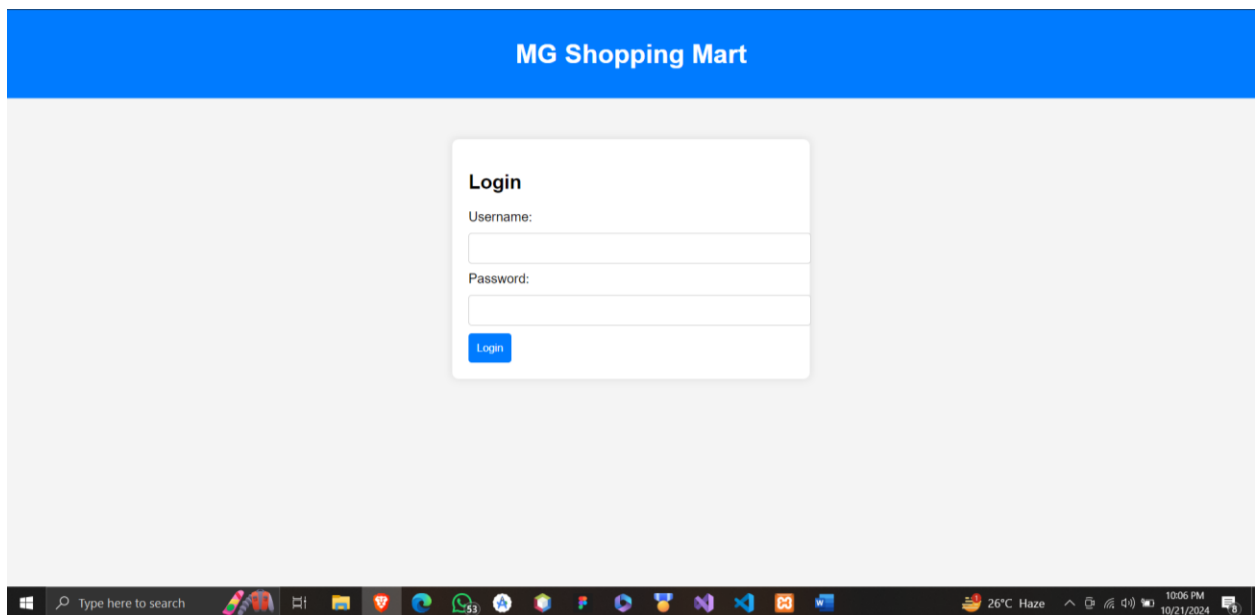
    </form>

</div>

</body>

</html>

```



2) Manage Category (CRUD)

```

<?php
include('../db/db.php');

if ($_SERVER['REQUEST_METHOD'] === 'POST') {

    $action = $_POST['action'];

    if ($action === 'add' && isset($_POST['category_name'])) {

```

```
$category = $_POST['category_name'];

$stmt = $conn->prepare("INSERT INTO categories (name) VALUES (?)");

$stmt->bind_param("s", $category);

$stmt->execute();

echo "Category added!";
}

elseif ($action === 'delete' && isset($_POST['category_id'])) {

    $categoryId = $_POST['category_id'];

    $stmt = $conn->prepare("DELETE FROM categories WHERE id = ?");

    $stmt->bind_param("i", $categoryId);

    $stmt->execute();

    echo "Category deleted!";

}

elseif ($action === 'edit' && isset($_POST['category_name']) &&
isset($_POST['category_id'])) {

    $category = $_POST['category_name'];

    $categoryId = $_POST['category_id'];

    $stmt = $conn->prepare("UPDATE categories SET name = ? WHERE id = ?");

    $stmt->bind_param("si", $category, $categoryId);

    $stmt->execute();

    echo "Category updated!";

}

}

$categories = $conn->query("SELECT * FROM categories");

?>

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

```
<title>Manage Categories</title>
<style>
  body {
    font-family: Arial, sans-serif;
    background-color: #f7f7f7;
    padding: 20px;
  }
  h2, h3 {
    text-align: center;
  }
  form {
    text-align: center;
    margin-bottom: 20px;
  }
  input[type="text"] {
    padding: 8px;
    width: 200px;
    margin: 5px 0;
  }
  input[type="submit"], .edit-btn, .delete-btn {
    padding: 8px 12px;
    margin: 5px;
    border: none;
    cursor: pointer;
  }
  .edit-btn {
    background-color: #f39c12;
    color: white;
  }
  .delete-btn {
```

```
        background-color: #e74c3c;
        color: white;
    }
    input[type="submit"] {
        background-color: #3498db;
        color: white;
    }
    ul {
        list-style-type: none;
        padding: 0;
        width: 50%;
        margin: 0 auto;
    }
    li {
        background-color: #fff;
        padding: 10px;
        margin: 5px 0;
        border-radius: 5px;
        display: flex;
        justify-content: space-between;
        align-items: center;
    }
    .button-group {
        display: flex;
        gap: 10px;
    }
</style>
</head>
<body>
<h2>Manage Categories</h2>
```

```
<form method="POST">

  <label>Category Name: </label>

  <input type="text" name="category_name" required />

  <input type="hidden" name="action" value="add" />

  <input type="submit" value="Add Category" />

  <a href="index.php">Back</a>

</form>


<h3>Category List</h3>

<ul>

  <?php while ($cat = $categories->fetch_assoc()) : ?>

    <li>

      <?php echo $cat['name']; ?>

      <div class="button-group">

        <form method="POST" style="display:inline;">

          <input type="text" name="category_name" value="<?php echo $cat['name']; ?>"
required />

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

          <input type="hidden" name="action" value="edit" />

          <input class="edit-btn" type="submit" value="Edit" />

        </form>

        <form method="POST" style="display:inline;">

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

          <input type="hidden" name="action" value="delete" />

          <input class="delete-btn" type="submit" value="Delete" />

        </form>

      </div>

    </li>

  <?php endwhile; ?>

</ul>
```

</body>

</html>

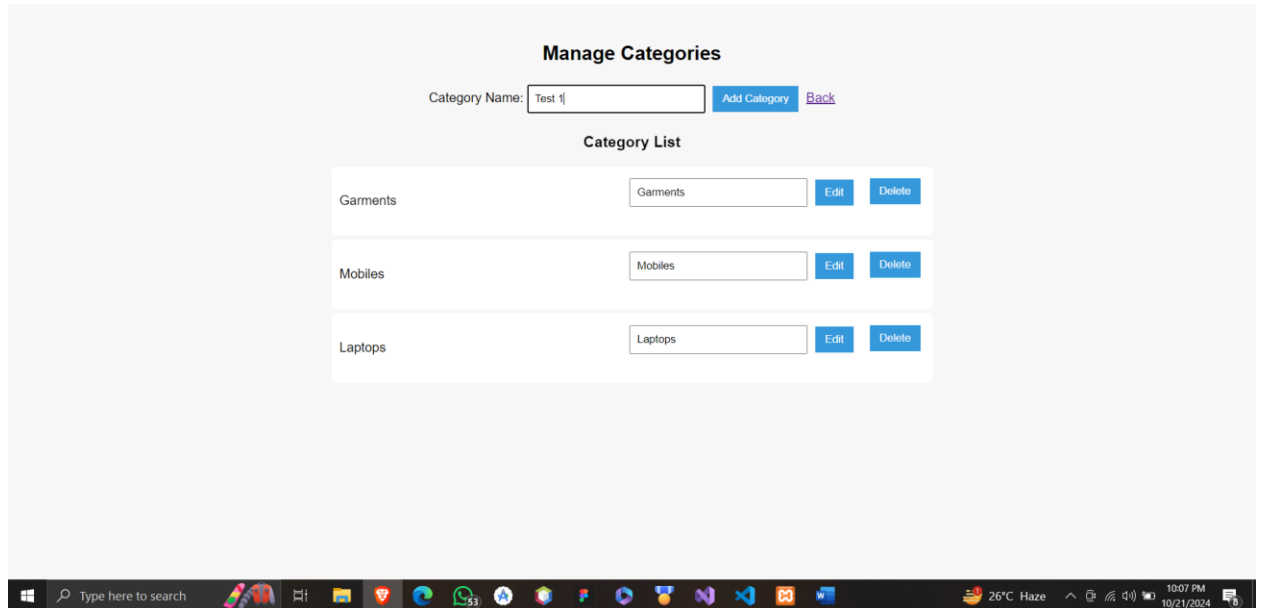
Add:

Manage Categories

Category Name: [Add Category](#) [Back](#)

Category List

Garments	<input type="text" value="Garments"/>	Edit	Delete
Mobiles	<input type="text" value="Mobiles"/>	Edit	Delete
Laptops	<input type="text" value="Laptops"/>	Edit	Delete



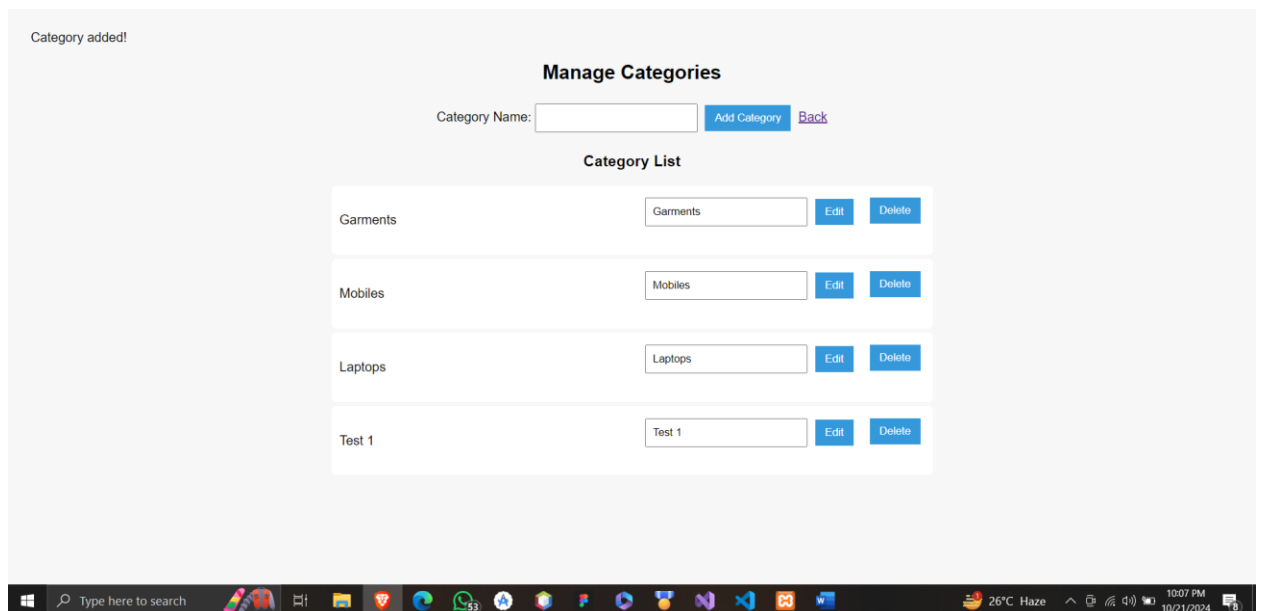
Category added!

Manage Categories

Category Name: [Add Category](#) [Back](#)

Category List

Garments	<input type="text" value="Garments"/>	Edit	Delete
Mobiles	<input type="text" value="Mobiles"/>	Edit	Delete
Laptops	<input type="text" value="Laptops"/>	Edit	Delete
Test 1	<input type="text" value="Test 1"/>	Edit	Delete

**Edit:**

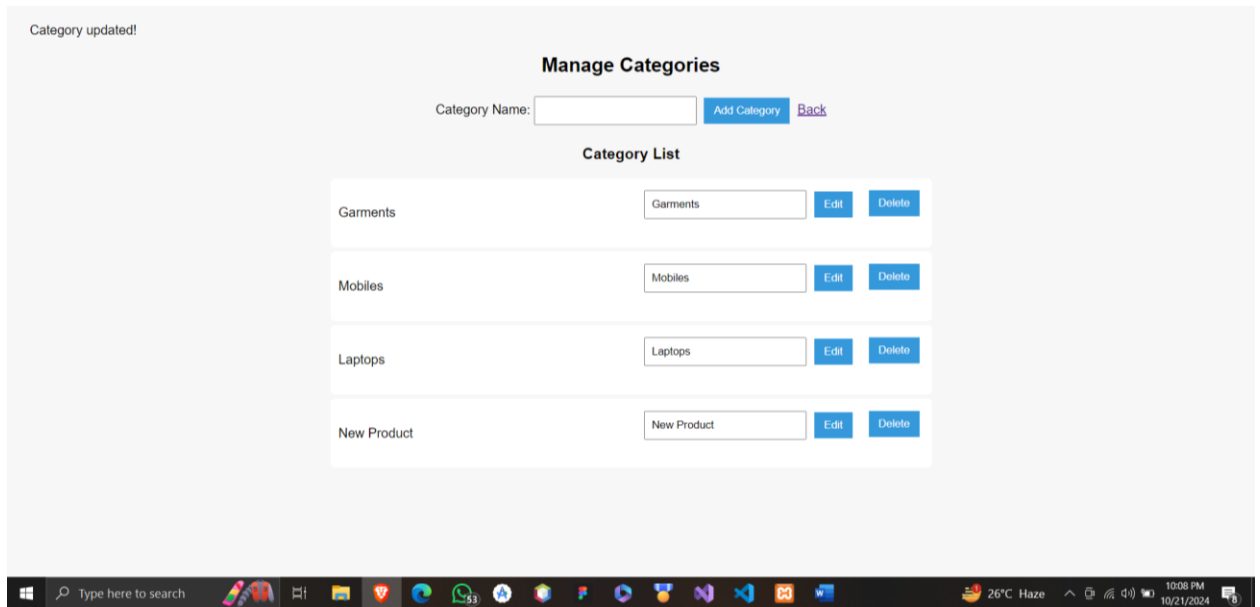
Category updated!

Manage Categories

Category Name: [Add Category](#) [Back](#)

Category List

Garments	<input type="text" value="Garments"/>	Edit	Delete
Mobiles	<input type="text" value="Mobiles"/>	Edit	Delete
Laptops	<input type="text" value="Laptops"/>	Edit	Delete
New Product	<input type="text" value="New Product"/>	Edit	Delete



Delete:

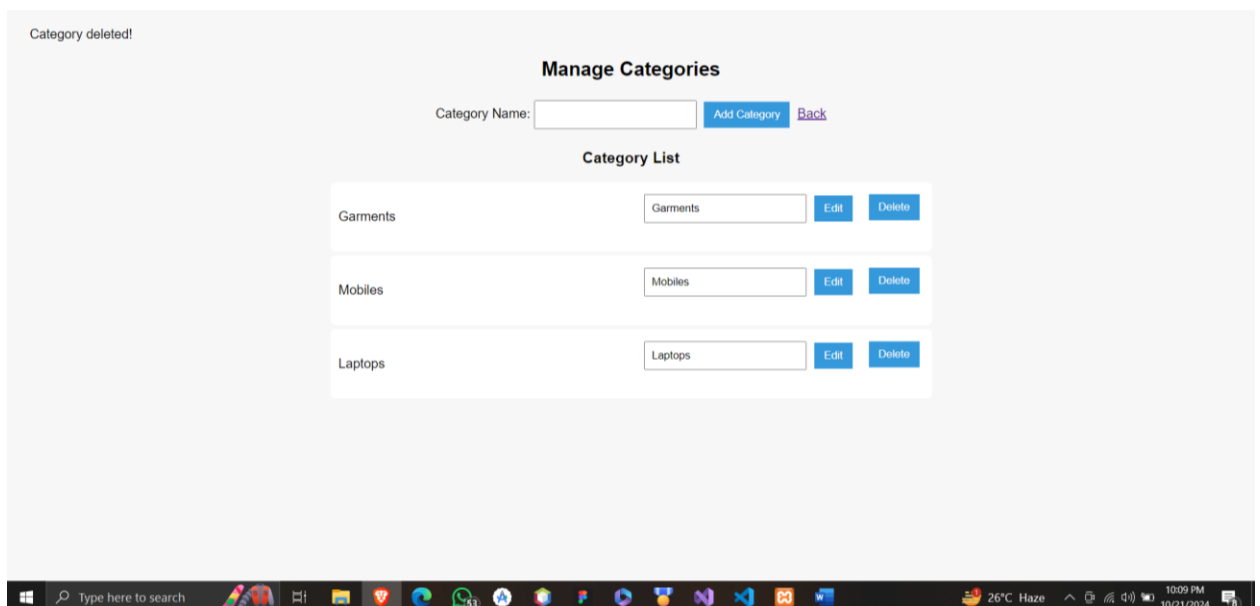
Category deleted!

Manage Categories

Category Name: [Add Category](#) [Back](#)

Category List

Garments	<input type="text" value="Garments"/>	Edit	Delete
Mobiles	<input type="text" value="Mobiles"/>	Edit	Delete
Laptops	<input type="text" value="Laptops"/>	Edit	Delete



3) Manage Products (Product data with pictures. Upload picture and resize them)

```
<?php
include('../db/db.php');
if ($_SERVER['REQUEST_METHOD'] === 'POST') {
    $action = $_POST['action'];
    if ($action === 'add') {
        $name = $_POST['product_name'];
        $price = $_POST['product_price'];
        $category = $_POST['product_category'];
        $image = $_FILES['product_image']['name'];
        $image_tmp = $_FILES['product_image']['tmp_name'];
        $image_folder = "../images/$image";
        if (move_uploaded_file($image_tmp, $image_folder)) {
            $stmt = $conn->prepare("INSERT INTO products (name, price, category_id, image)
VALUES (?, ?, ?, ?)");
            $stmt->bind_param("sdss", $name, $price, $category, $image);
            $stmt->execute();
            echo "Product added!";
        } else {
            echo "Failed to upload image.";
        }
    } elseif ($action === 'delete') {
        $productId = $_POST['product_id'];
        $stmt = $conn->prepare("DELETE FROM products WHERE id = ?");
        $stmt->bind_param("i", $productId);
        $stmt->execute();
        echo "Product deleted!";
    } elseif ($action === 'edit') {
        $productId = $_POST['product_id'];
        $stmt = $conn->prepare("SELECT * FROM products WHERE id = ?");
        $stmt->bind_param("i", $productId);
```

```
$stmt->execute();

$result = $stmt->get_result();

$product = $result->fetch_assoc();

} elseif ($action === 'update') {

    $productId = $_POST['product_id'];

    $name = $_POST['product_name'];

    $price = $_POST['product_price'];

    $category = $_POST['product_category'];

    $stmt = $conn->prepare("UPDATE products SET name = ?, price = ?, category_id = ?
    WHERE id = ?");

    $stmt->bind_param("sdii", $name, $price, $category, $productId);

    $stmt->execute();

    echo "Product updated!";

}

}

$products = $conn->query("SELECT * FROM products");

$categories = $conn->query("SELECT * FROM categories");

?>

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Manage Products</title>

    <style>

        body {

            font-family: Arial, sans-serif;

            background-color: #f7f7f7;

            padding: 20px;

        }

    </style>

</head>

<body>
```

```
h2, h3 {
    text-align: center;
}

form {
    text-align: center;
    margin-bottom: 20px;
}

input[type="text"], input[type="number"], select {
    padding: 8px;
    width: 200px;
    margin: 5px 0;
}

input[type="submit"] {
    padding: 8px 12px;
    margin: 5px;
    border: none;
    cursor: pointer;
    background-color: #3498db;
    color: white;
}

ul {
    list-style-type: none;
    padding: 0;
    width: 50%;
    margin: 0 auto;
}

li {
    background-color: #fff;
    padding: 10px;
    margin: 5px 0;
```

```
        border-radius: 5px;
        display: flex;
        justify-content: space-between;
        align-items: center;
    }
    img {
        max-width: 50px;
        max-height: 50px;
    }
</style>
</head>
<body>
<h2>Manage Products</h2>
<form method="POST" enctype="multipart/form-data">
    <label>Product Name: </label>
    <input type="text" name="product_name" required /><br/>
    <label>Price: </label>
    <input type="number" step="0.01" name="product_price" required /><br/>
    <label>Category: </label>
    <select name="product_category">
        <?php while ($cat = $categories->fetch_assoc()) : ?>
            <option value="<?php echo $cat['id']; ?>"><?php echo $cat['name']; ?></option>
        <?php endwhile; ?>
    </select><br/>
    <label>Product Image: </label>
    <input type="file" name="product_image" required /><br/>
    <input type="hidden" name="action" value="add" />
    <input type="submit" value="Add Product" />
    <a href="index.php">Back</a>
</form>
```

```
<h3>Product List</h3>

<ul>

  <?php while ($prod = $products->fetch_assoc()) : ?>

    <li>

      <span><?php echo $prod['name']; ?> - $<?php echo number_format($prod['price'], 2);
?></span>

      "
/>

      <form method="POST" style="display:inline;">

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

        <input type="hidden" name="action" value="edit" />

        <input type="submit" value="Edit" />

      </form>

      <form method="POST" style="display:inline;">

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

        <input type="hidden" name="action" value="delete" />

        <input type="submit" value="Delete" />

      </form>

    </li>

  <?php endwhile; ?>

</ul>

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

  <h3>Edit Product</h3>

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

    <label>Product Name: </label>

    <input type="text" name="product_name" value="<?php echo $product['name']; ?>"
required /><br/>

    <label>Price: </label>

    <input type="number" step="0.01" name="product_price" value="<?php echo
$product['price']; ?>" required /><br/>

    <label>Category: </label>
```

```
<select name="product_category">

    <?php
    $categories->data_seek(0);
    while ($cat = $categories->fetch_assoc()) : ?>
        <option value="<?php echo $cat['id']; ?>" <?php if ($cat['id'] ==
$product['category_id']) echo 'selected'; ?>>
            <?php echo $cat['name']; ?>
        </option>
    <?php endwhile; ?>
</select><br/>

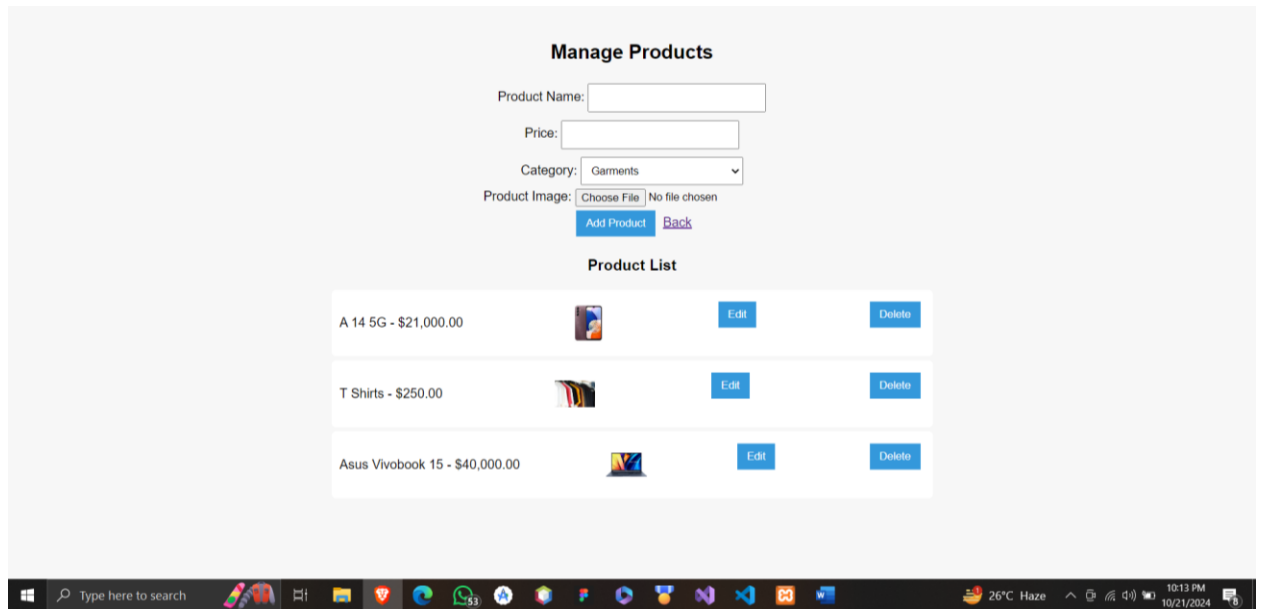
<input type="hidden" name="product_id" value="<?php echo $product['id']; ?>" />
<input type="hidden" name="action" value="update" />
<input type="submit" value="Update Product" />

</form>

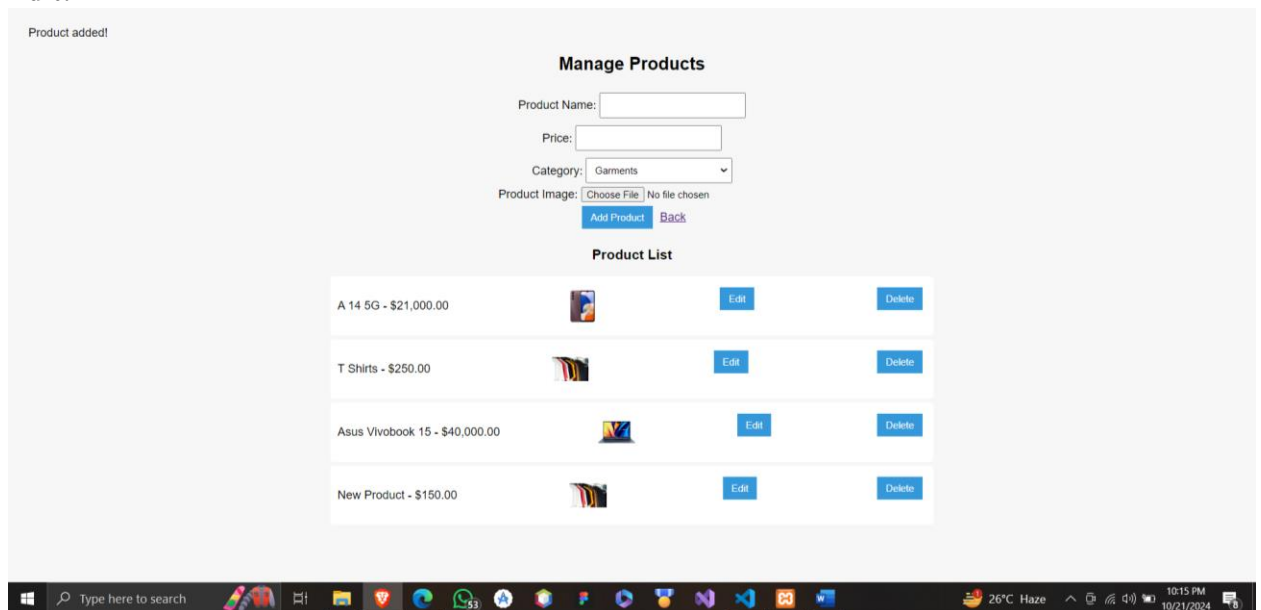
<?php endif; ?>

</body>
</html>
```

Add:



Edit:



Edit Product

Product Name:

Price:

Category:

Delete:

Product deleted!

Manage Products

Product Name:




Price:

Category:

Product Image: No file chosen

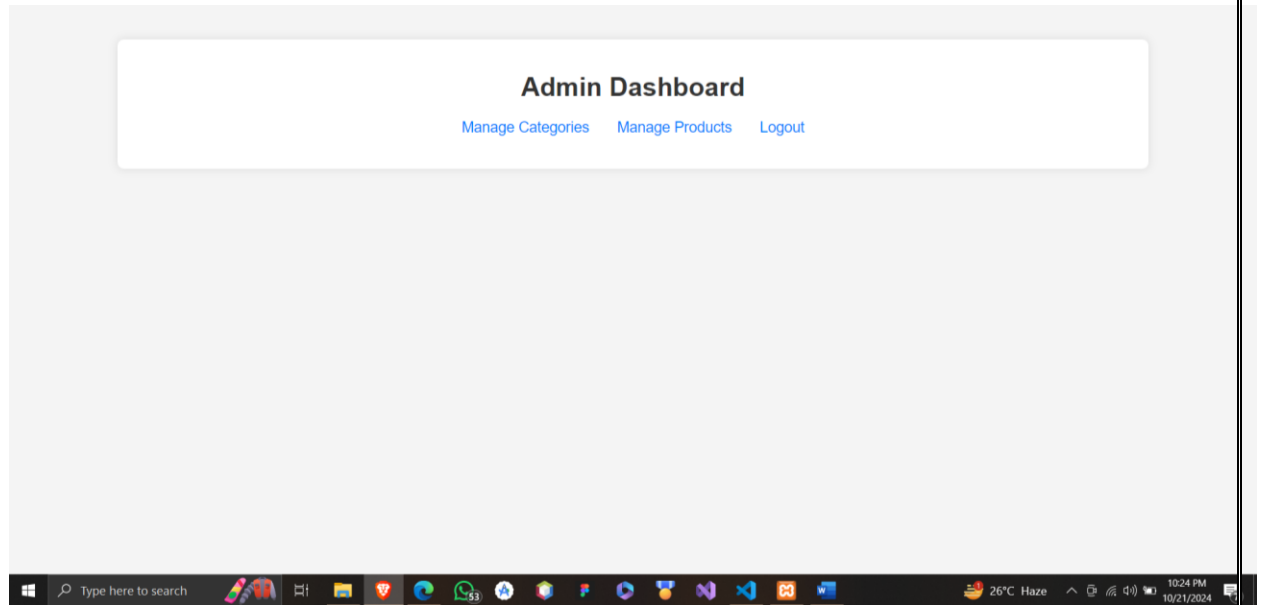
[Back](#)

Product List

A 14 5G - \$21,000.00		<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
T Shirts - \$250.00		<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
Asus Vivobook 15 - \$40,000.00		<input type="button" value="Edit"/>	<input type="button" value="Delete"/>

4) Logout

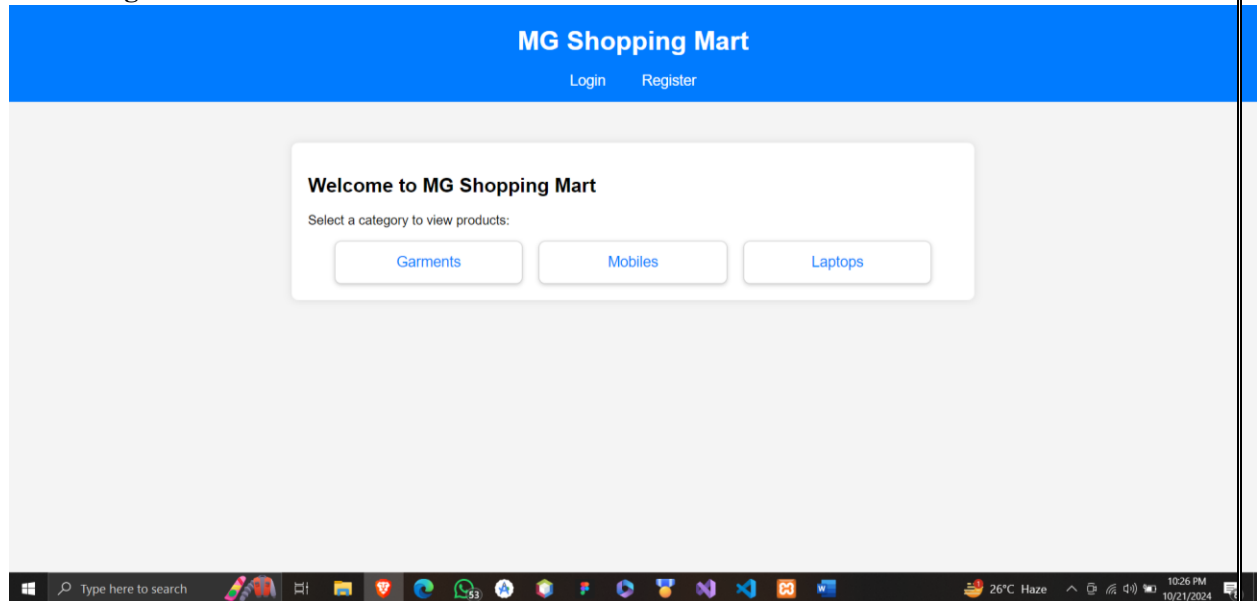
```
<?php
session_start();
session_destroy();
header('Location: index.php?page=login');
exit();
?>
```



- **User Site:**

Categories	pic	p2	p3
Garments	pname	price	
Mobiles	p4		
Laptops			

1) List Categories



2) Display products of category whose hyperlink is clicked (Apply pagination, load data with ajax).

Product:

```
<?php
session_start();
include('../db/db.php');
$category_id = isset($_GET['category_id']) ? $_GET['category_id'] : null;
if ($category_id) {
    $query = "SELECT `id`, `name`, `price`, `category_id`, `image` FROM `products`
    WHERE category_id = $category_id";
    $result = $conn->query($query);
} else {
    echo "No category selected.";
    exit;
}
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
```

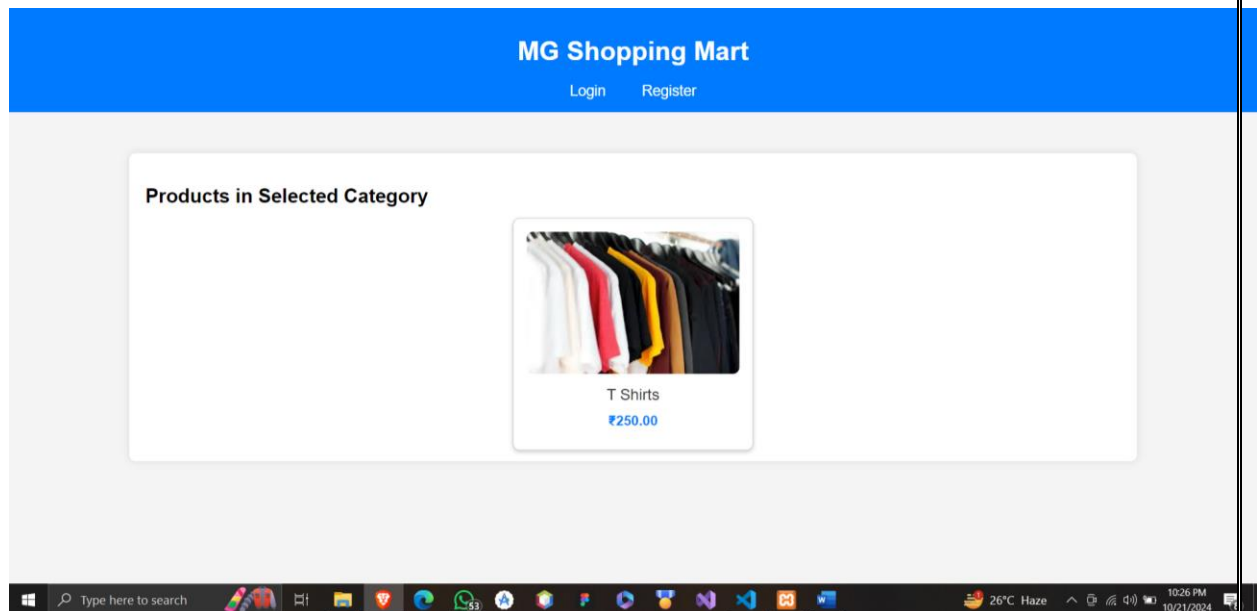
```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Products - MG Shopping Mart</title>
<style>
  body {
    font-family: Arial, sans-serif;
    background-color: #f4f4f4;
    margin: 0;
    padding: 0;
  }
  .navbar {
    background-color: #007bff;
    padding: 15px;
    color: white;
    text-align: center;
  }
  .navbar a {
    color: white;
    margin: 0 20px;
    text-decoration: none;
    font-size: 18px;
  }
  .navbar a:hover {
    text-decoration: underline;
  }
  .container {
    width: 80%;
    max-width: 1200px;
    margin: 50px auto;
    background: #fff;
    padding: 20px;
    border-radius: 8px;
    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
  }
  .product-list {
    display: flex;
    flex-wrap: wrap;
    gap: 20px;
    justify-content: center;
  }
  .product-card {
    background: #fff;
    border: 1px solid #ccc;
    border-radius: 8px;
    padding: 15px;
    text-align: center;
    box-shadow: 0 2px 5px rgba(0, 0, 0, 0.2);
    transition: transform 0.2s;
```

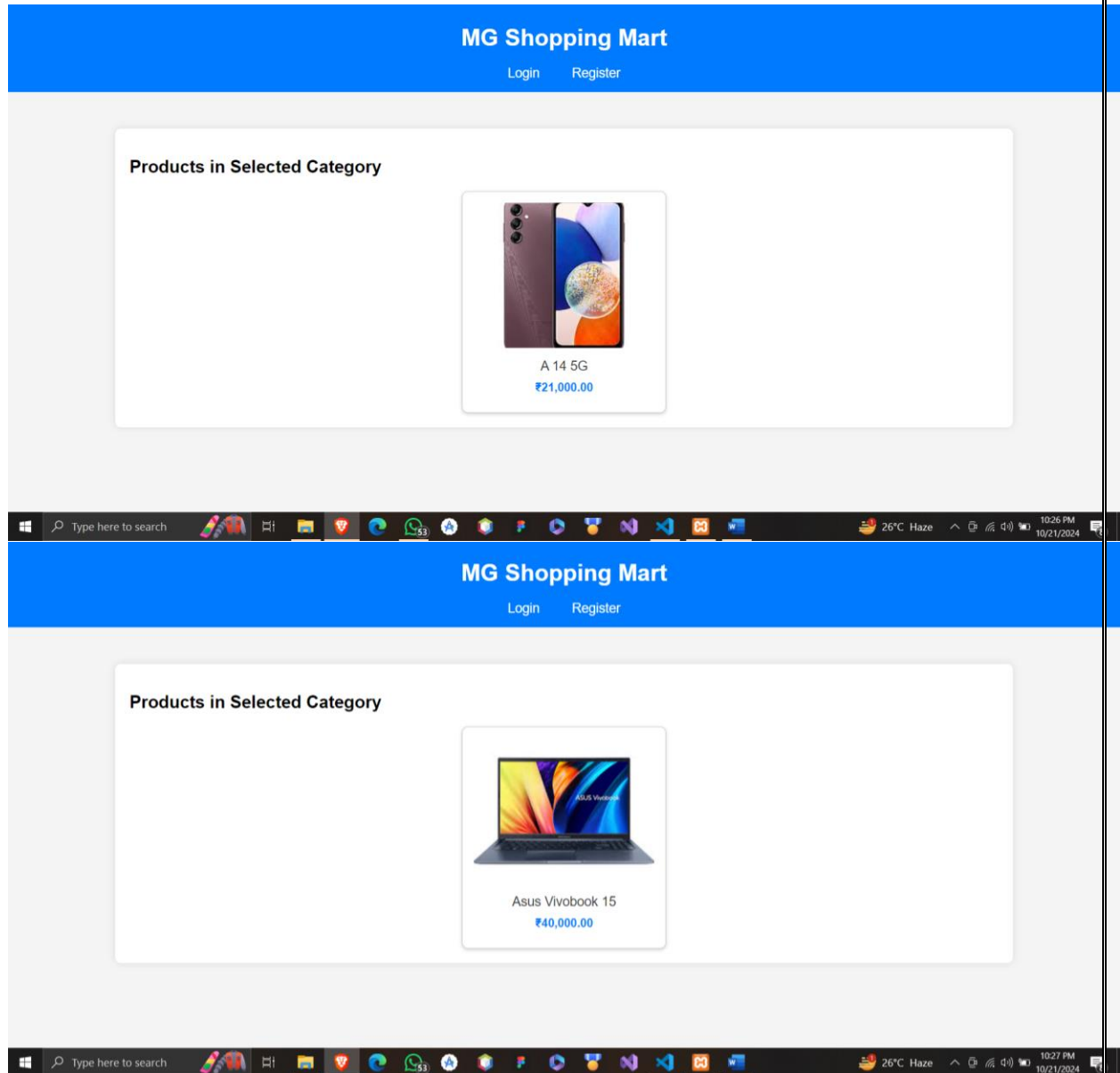
```
        width: 250px;
    }
    .product-card:hover {
        transform: scale(1.05);
    }
    .product-card a {
        text-decoration: none;
        color: #007bff;
        font-size: 18px;
    }
    .product-card a:hover {
        text-decoration: underline;
    }
    .product-name {
        font-size: 18px;
        color: #333;
        margin-bottom: 10px;
    }
    .product-price {
        color: #007bff;
        font-weight: bold;
        margin: 10px 0;
    }
    .product-card img {
        width: 100%;
        height: auto;
        border-radius: 8px;
        margin-bottom: 10px;
        max-height: 200px;
        object-fit: cover;
    }
    .product-description {
        font-size: 14px;
        color: #666;
        margin-top: 10px;
    }
}
</style>
</head>
<body>
<div class="navbar">
    <h1>MG Shopping Mart</h1>
    <?php if (isset($_SESSION['username'])): ?>
        <a href="logout.php">Logout</a>
        <span>Welcome, <?php echo htmlspecialchars($_SESSION['username']);
?></span>
    <?php else: ?>
        <a href="login.php">Login</a>
```

```

        <a href="register.php">Register</a>
    <?php endif; ?>
</div>
<div class="container">
    <h2>Products in Selected Category</h2>
    <?php if ($result->num_rows > 0): ?>
        <div class="product-list">
            <?php while ($row = $result->fetch_assoc()): ?>
                <div class="product-card">
                    <a href="product-details.php?product_id=<?php echo $row['id']; ?>">
                        " />
                        <div class="product-name"><?php echo htmlspecialchars($row['name']);
?></div>
                        </a>
                        <div class="product-price">₹<?php echo number_format($row['price'], 2);
?></div>
                    </div>
                <?php endwhile; ?>
            </div>
            <?php else: ?>
                <p>No products available in this category.</p>
            <?php endif; ?>
        </div>
    </body>
</html>

```





3) Register user (Use CAPTCHA)

```
<?php
session_start();
require_once 'db/db.php';
if ($_SERVER['REQUEST_METHOD'] === 'POST') {
    $username = $_POST['username'];
    $password = password_hash($_POST['password'], PASSWORD_BCRYPT);
    $email = $_POST['email'];
    $captcha = $_POST['captcha'];
```

```
$role = 'user';
if ($captcha === $_SESSION['captcha_code']) {
    $stmt = $conn->prepare("SELECT * FROM users WHERE username = ?");
    $stmt->bind_param("s", $username);
    $stmt->execute();
    $result = $stmt->get_result();
    if ($result->num_rows > 0) {
        $error = "Username already exists!";
    } else {
        $stmt = $conn->prepare("INSERT INTO users (username, password, email, role)
VALUES (?, ?, ?, ?)");
        $stmt->bind_param("ssss", $username, $password, $email, $role);
        $stmt->execute();
        $success = "User registered successfully!";
        header('Location: login.php');
        exit();
    }
} else {
    $error = "CAPTCHA validation failed!";
}
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Register - MG Shopping Mart</title>
    <style>
        body { font-family: Arial, sans-serif; background-color: #f4f4f4; margin: 0; padding: 0;
    }
```



```
.navbar { background-color: #007bff; padding: 15px; color: white; text-align: center; }

.container { width: 80%; max-width: 400px; margin: 50px auto; background: #fff;
padding: 20px; border-radius: 8px; box-shadow: 0 0 10px rgba(0, 0, 0, 0.1); }

input[type="text"], input[type="password"], input[type="email"] { width: 100%;
padding: 10px; margin: 10px 0; border: 1px solid #ccc; border-radius: 4px; }

input[type="submit"] { background-color: #007bff; color: white; padding: 10px; border:
none; border-radius: 4px; cursor: pointer; }

.error { color: red; text-align: center; }

.success { color: green; text-align: center; }

</style>
</head>
<body>
<div class="navbar"><h1>MG Shopping Mart</h1></div>
<div class="container">
  <h2>Register</h2>
  <?php if (isset($error)): ?><p class="error"><?php echo $error; ?></p><?php endif; ?>
  <?php if (isset($success)): ?><p class="success"><?php echo $success; ?></p><?php
endif; ?>
  <form method="POST" action="">
    <label>Username:</label><input type="text" name="username" required><br/>
    <label>Password:</label><input type="password" name="password" required><br/>
    <label>Email:</label><input type="email" name="email" required><br/>
    <label>CAPTCHA:</label>
    <input type="text" name="captcha" required>
    <br/>
    <input type="submit" value="Register">
  </form>
</div>
</body>
</html>
```

MG Shopping Mart

Register

Username:

Password:

Email:

CAPTCHA:

6578

[Register](#)

4.Login

```
<?php
session_start();
require_once 'db/db.php';
if ($_SERVER['REQUEST_METHOD'] === 'POST') {
    $username = $_POST['username'];
    $password = $_POST['password'];
    if ($username === 'admin' && $password === 'admin123') {
        $_SESSION['role'] = 'admin';
        header('Location: admin/index.php');
        exit;
    }
    $stmt = $conn->prepare("SELECT * FROM users WHERE username = ?");
    $stmt->bind_param("s", $username);
    $stmt->execute();
    $result = $stmt->get_result();
    if ($result->num_rows === 1) {
        $user = $result->fetch_assoc();
```

```
if (password_verify($password, $user['password'])) {  
    $_SESSION['username'] = $user['username'];  
    $_SESSION['role'] = $user['role'];  
    if ($user['role'] === 'admin') {  
        header('Location: admin/index.php');  
    } else {  
        header('Location: index.php');  
    }  
    exit();  
} else {  
    $error = "Incorrect password!";  
}  
} else {  
    $error = "Username not found!";  
}  
}  
?>  
  
<!DOCTYPE html>  
  
<html lang="en">  
  
<head>  
  
    <meta charset="UTF-8">  
  
    <meta name="viewport" content="width=device-width, initial-scale=1.0">  
  
    <title>Login - MG Shopping Mart</title>  
  
    <style>  
  
        body { font-family: Arial, sans-serif; background-color: #f4f4f4; margin: 0; padding: 0; }  
  
        .navbar { background-color: #007bff; padding: 15px; color: white; text-align: center; }  
  
        .container { width: 80%; max-width: 400px; margin: 50px auto; background: #fff; padding:  
20px; border-radius: 8px; box-shadow: 0 0 10px rgba(0, 0, 0, 0.1); }  
  
        input[type="text"], input[type="password"] { width: 100%; padding: 10px; margin: 10px 0;  
border: 1px solid #ccc; border-radius: 4px; }
```

```
        input[type="submit"] { background-color: #007bff; color: white; padding: 10px; border:
none; border-radius: 4px; cursor: pointer; }

        .error { color: red; text-align: center; }

        .success { color: green; text-align: center; }

    </style>
</head>
<body>
<div class="navbar"><h1>MG Shopping Mart</h1></div>
<div class="container">
    <h2>Login</h2>
    <?php if (isset($error)): ?><p class="error"><?php echo $error; ?></p><?php endif; ?>
    <form method="POST" action="">
        <label>Username:</label><input type="text" name="username" required><br/>
        <label>Password:</label><input type="password" name="password" required><br/>
        <input type="submit" value="Login">
    </form>
</div>
</body>
</html>
```

MG Shopping Mart


Login

Username:

Password:

Login

Type here to search



26°C Haze

10:33 PM
10/21/2024

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

```
<?php

$servername = "localhost";
$username = "root";
$password = "root";
$dbname = "shopping_cart";

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

$xml = simplexml_load_file('students.xml') or die("Error: Cannot create object");
foreach($xml->student as $student) {
    $id = $student->id;
    $name = $student->name;
    $age = $student->age;
    $course = $student->course;

    $sql = "INSERT INTO students (id, name, age, course) VALUES ('$id', '$name', '$age', '$course')";

    if ($conn->query($sql) === TRUE) {
        echo "New record created successfully<br>";
    } else {
        echo "Error: " . $sql . "<br>" . $conn->error;
    }
}

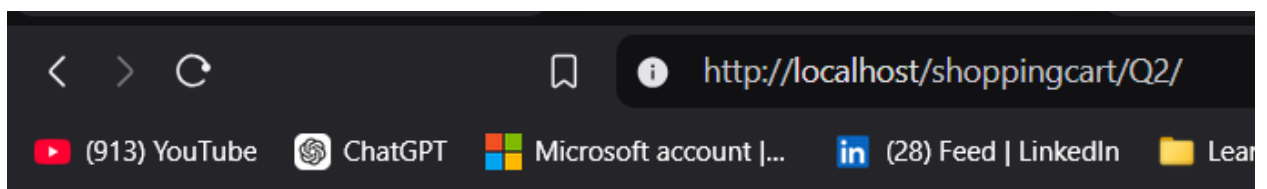
$conn->close();
?>
```

Student.xml

```
<students>

<student>
```

```
<id>1</id>
<name>Meet Mistry</name>
<age>21</age>
<course>Computer Science</course>
</student>
<student>
  <id>2</id>
  <name>Gunjan Mistry</name>
  <age>17</age>
  <course>Information Technology</course>
</student>
<student>
  <id>3</id>
  <name>Nitin Mistry</name>
  <age>47</age>
  <course>Manager</course>
</student>
</students>
```



New record created successfully
New record created successfully
New record created successfully

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

```
<?php

$servername = "localhost";
$username = "root";
$password = "root";
$dbname = "shopping_cart";

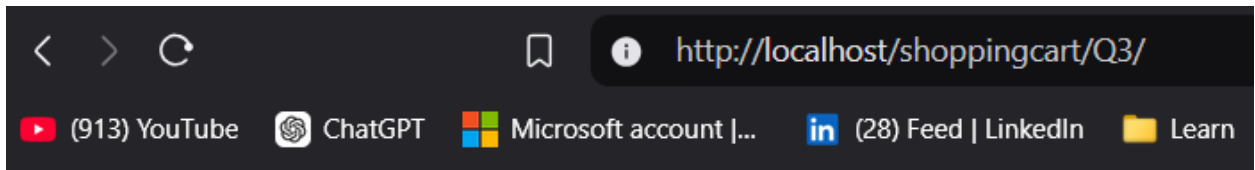
$conn = new mysqli($servername, $username, $password, $dbname);
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

$sql = "SELECT * FROM students";
$result = $conn->query($sql);
if ($result->num_rows > 0) {
    $xml = new SimpleXMLElement('<students/>');
    while($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('course', $row['course']);
    }
    $xml->asXML('students.xml');
    echo "Data exported to students.xml file";
} else {
    echo "0 results";
}

$conn->close();
?>
```

Student.xml


```
<?xml version="1.0"?>
<students>
  <student>
    <id>1</id><name>Meet Mistry</name>
    <age>21</age>
    <course>Computer Science</course>
  </student>
  <student>
    <id>2</id>
    <name>Gunjan Mistry</name>
    <age>17</age>
    <course>Information Technology</course>
  </student>
</students>
```

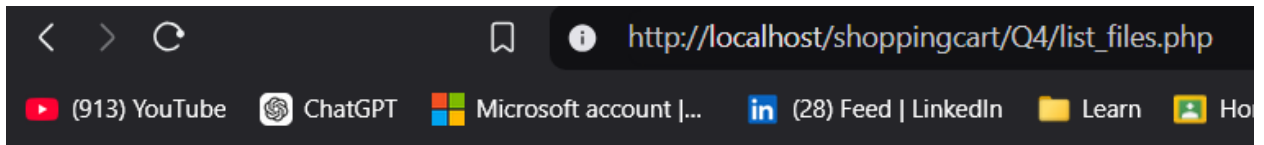


Data exported to students.xml file

4. List files in a directory.

list_files.php

```
<?php
$directory = 'C:\\xampp\\htdocs\\ShoppingCart';
if (is_dir($directory)) {
    $files = scandir($directory);
    $files = array_diff($files, array('.', '..'));
    echo "<h2>Files in the directory:</h2>";
    echo "<ul>";
    foreach ($files as $file) {
        echo "<li>" . htmlspecialchars($file) . "</li>";
    }
    echo "</ul>";
} else {
    echo "<h2>Directory does not exist.</h2>";
}
?>
```



Files in the directory:

- Q1
- Q2
- Q3
- Q4
- Q5
- Q6

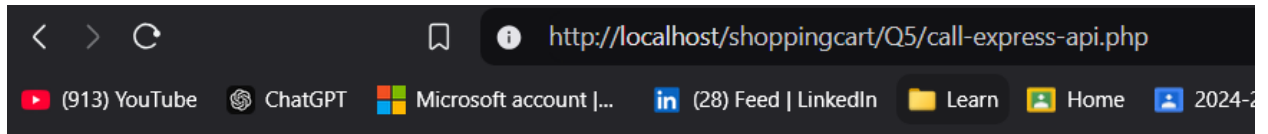
5. Call express rest api in php.

call-express-api.php:

```
<?php
$url = 'http://localhost:3000/api/data';
$ch = curl_init($url);
curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);
$response = curl_exec($ch);
if ($response === false) {
    echo 'Error: ' . curl_error($ch);
} else {
    $data = json_decode($response, true);
    echo 'Response from Express: ' . $data['message'];
}
curl_close($ch);
?>
```

Server.js:

```
const express = require('express');
const app = express();
app.use(express.json());
app.get('/api/data', (req, res) => {
    res.json({ message: 'Hello from Meet Mistry!' });
});
const port = 3000;
app.listen(port, () => {
    console.log(`Server is running on port ${port}`);
});
```



Response from Express: Hello from Meet Mistry!

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

```
<?php
header("Content-Type: application/json");

$data = [
    ["id" => 1, "name" => "Meet", "email" => "meet@example.com"],
    ["id" => 2, "name" => "Gunjan", "email" => "gunjan@example.com"]
];

echo json_encode($data);
?>
```

Server.js

```
const express = require('express');
const axios = require('axios');
const app = express();
const PORT = 3000;
app.get('/users', async (req, res) => {
    try {
        const response = await axios.get('http://localhost/shoppingcart/Q6/api.php');
        res.json(response.data);
    } catch (error) {
        res.status(500).json({ error: 'Failed to fetch data' });
    }
});
app.listen(PORT, () => {
    console.log(`Server is running on http://localhost:${PORT}`);
});
```

```
Status: 200 OK   Size: 105 Bytes   Time: 8 ms

Response  Headers 6  Cookies  Results  Docs

1  [
2  {
3    "id": 1,
4    "name": "Meet",
5    "email": "meet@example.com"
6  },
7  {
8    "id": 2,
9    "name": "Gunjan",
10   "email": "gunjan@example.com"
11  }
12 ]
```