**Practical Assignment – 3**

**Name: Meet Mistry**

**Stream: M.Sc. ICT 3**

**Roll No: 41**

**Github Link =** [**https://github.com/MistryMeet23/Assignment-3-Node-PHP.git**](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/>

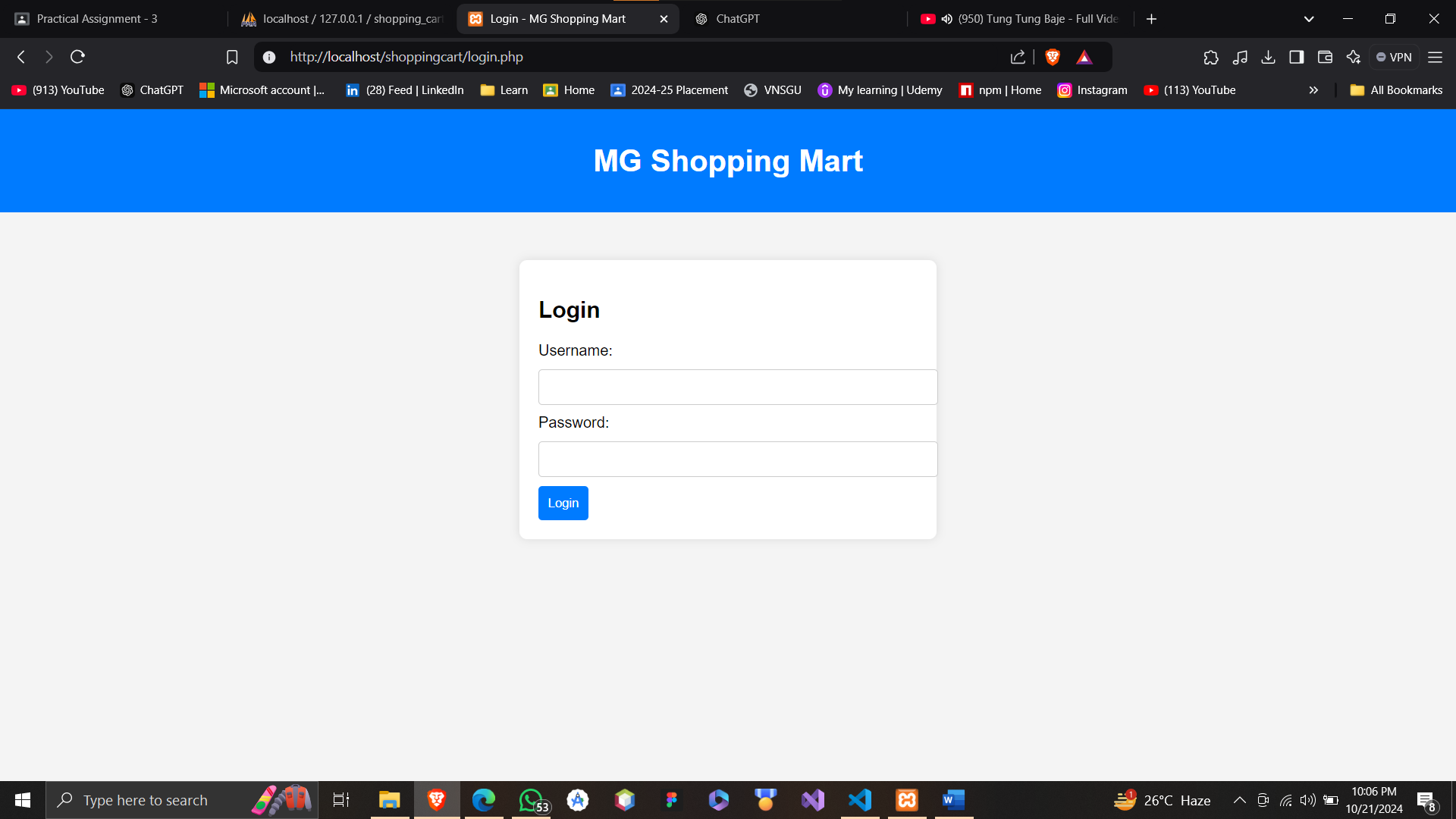
        <input type="submit" value="Login">

    </form>

</div>

</body>

</html>



1. **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>

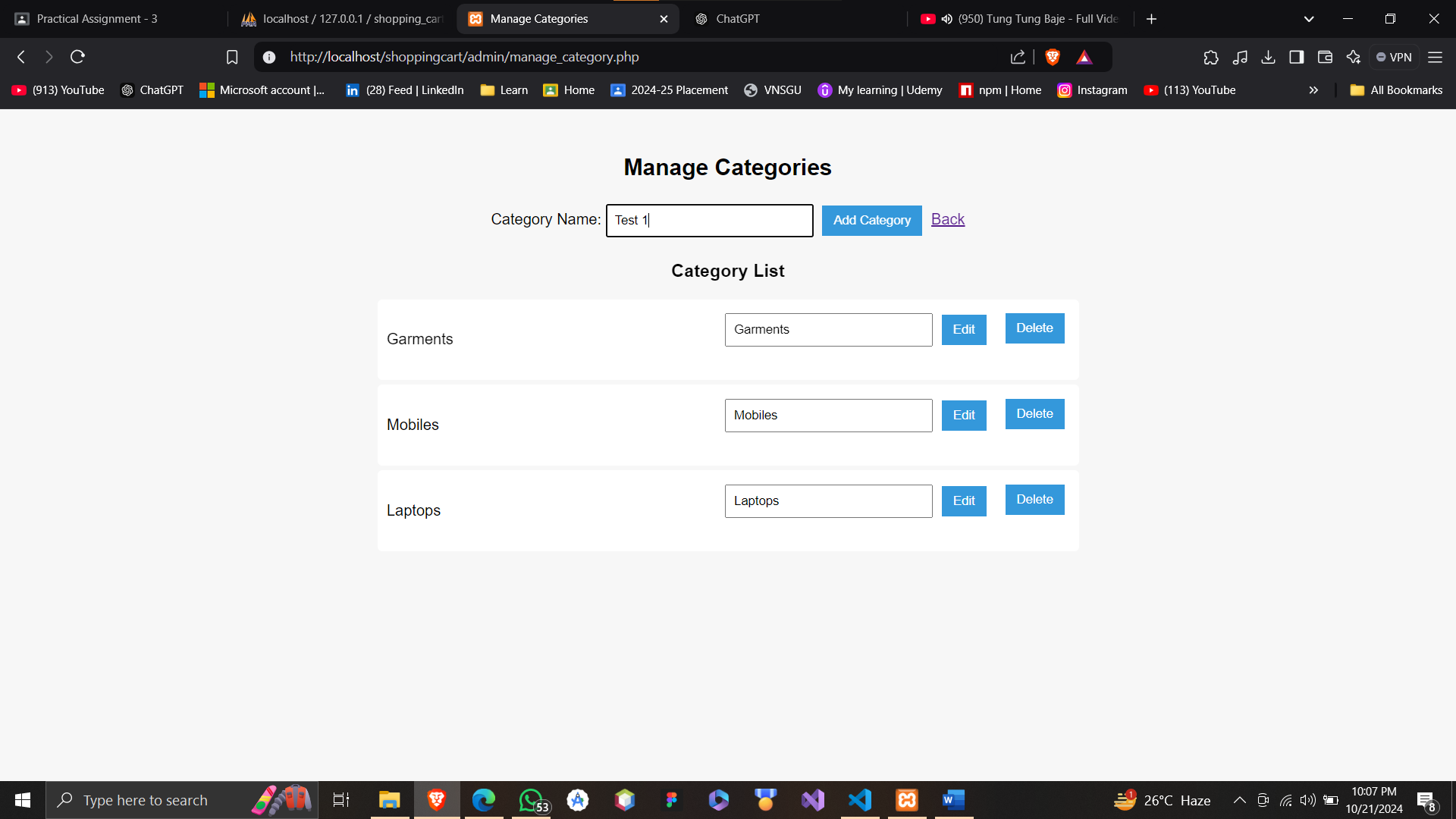
    <?php endwhile; ?>

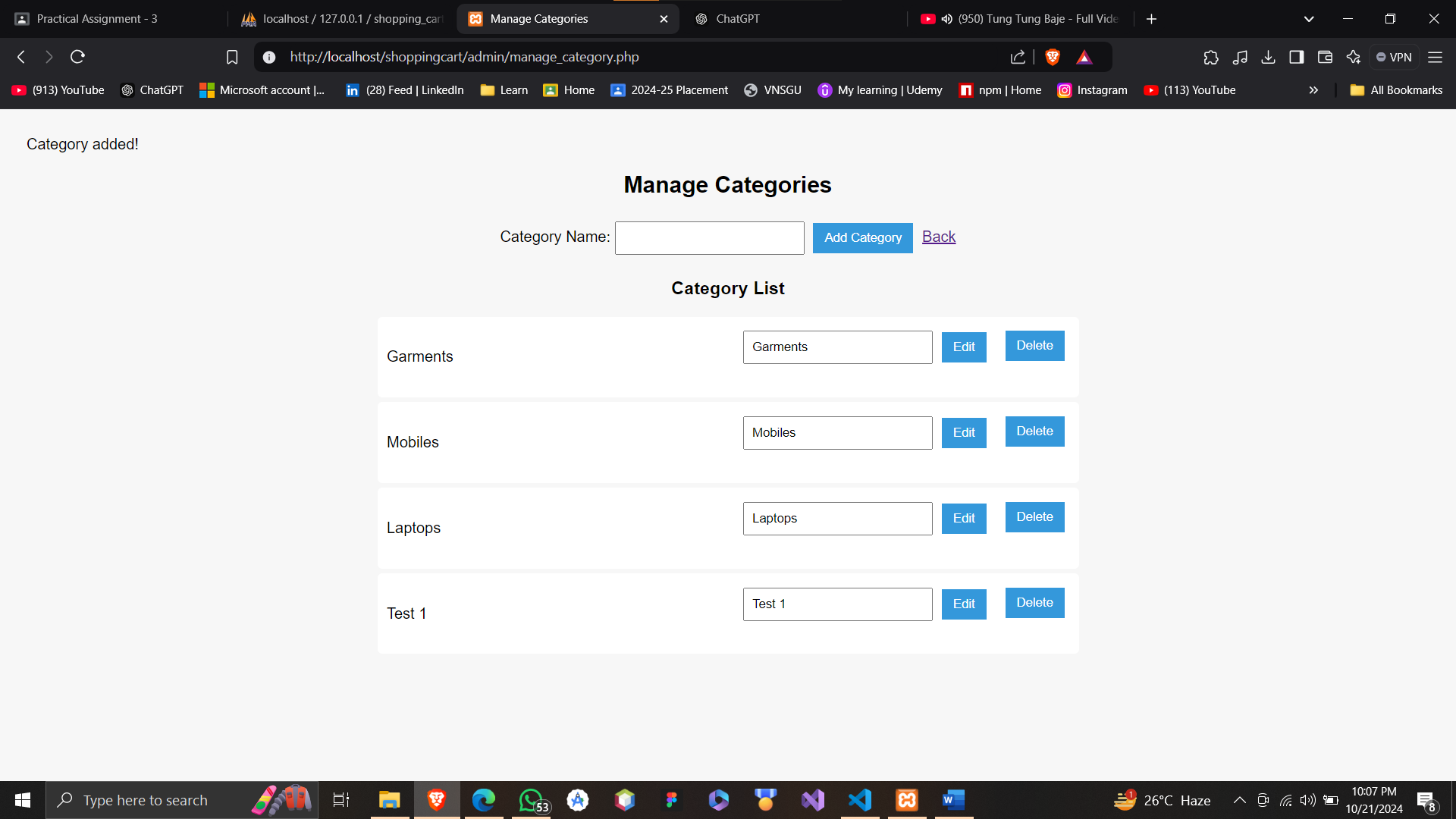
</ul>

</body>

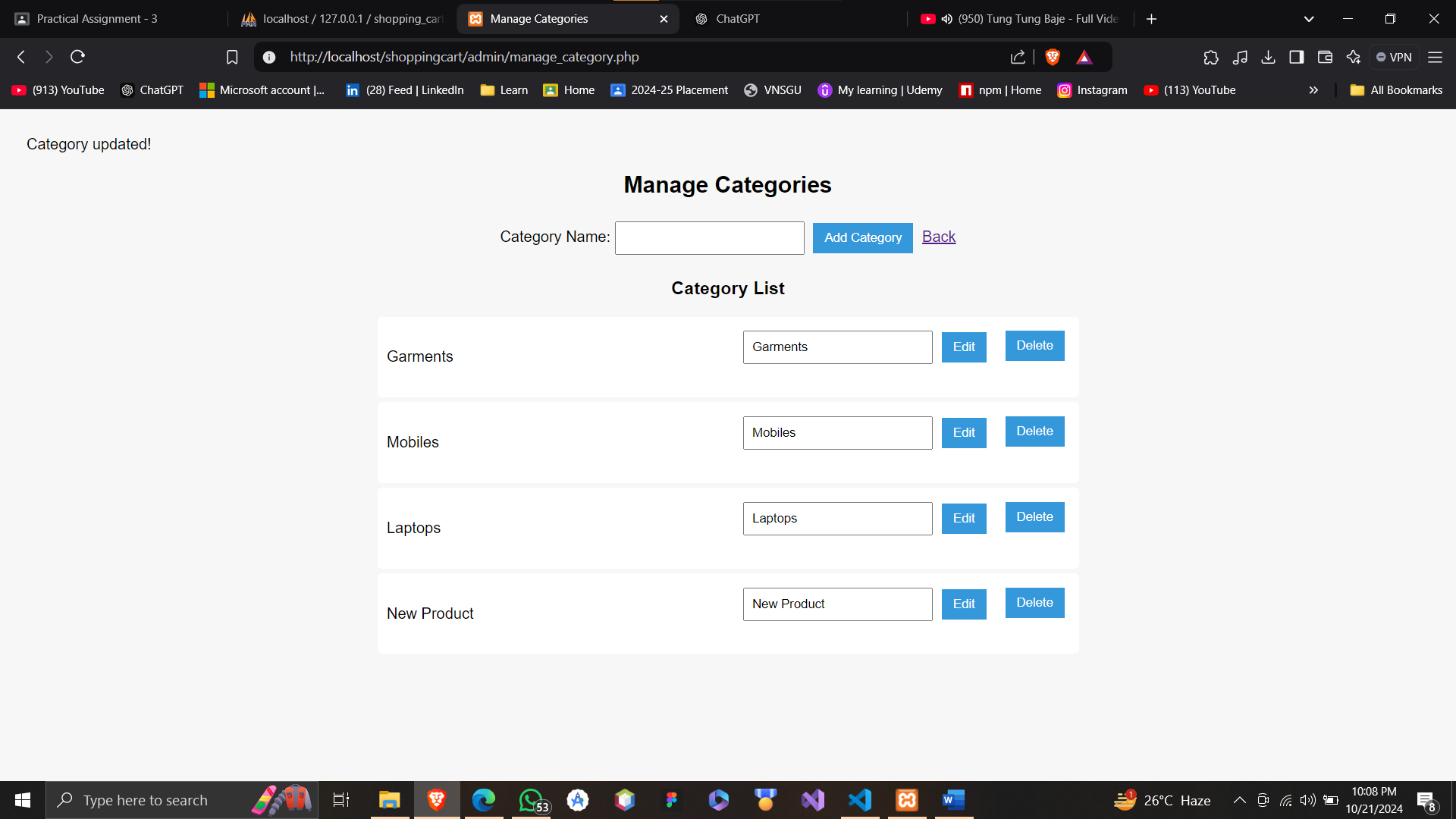
</html>

**Add:**

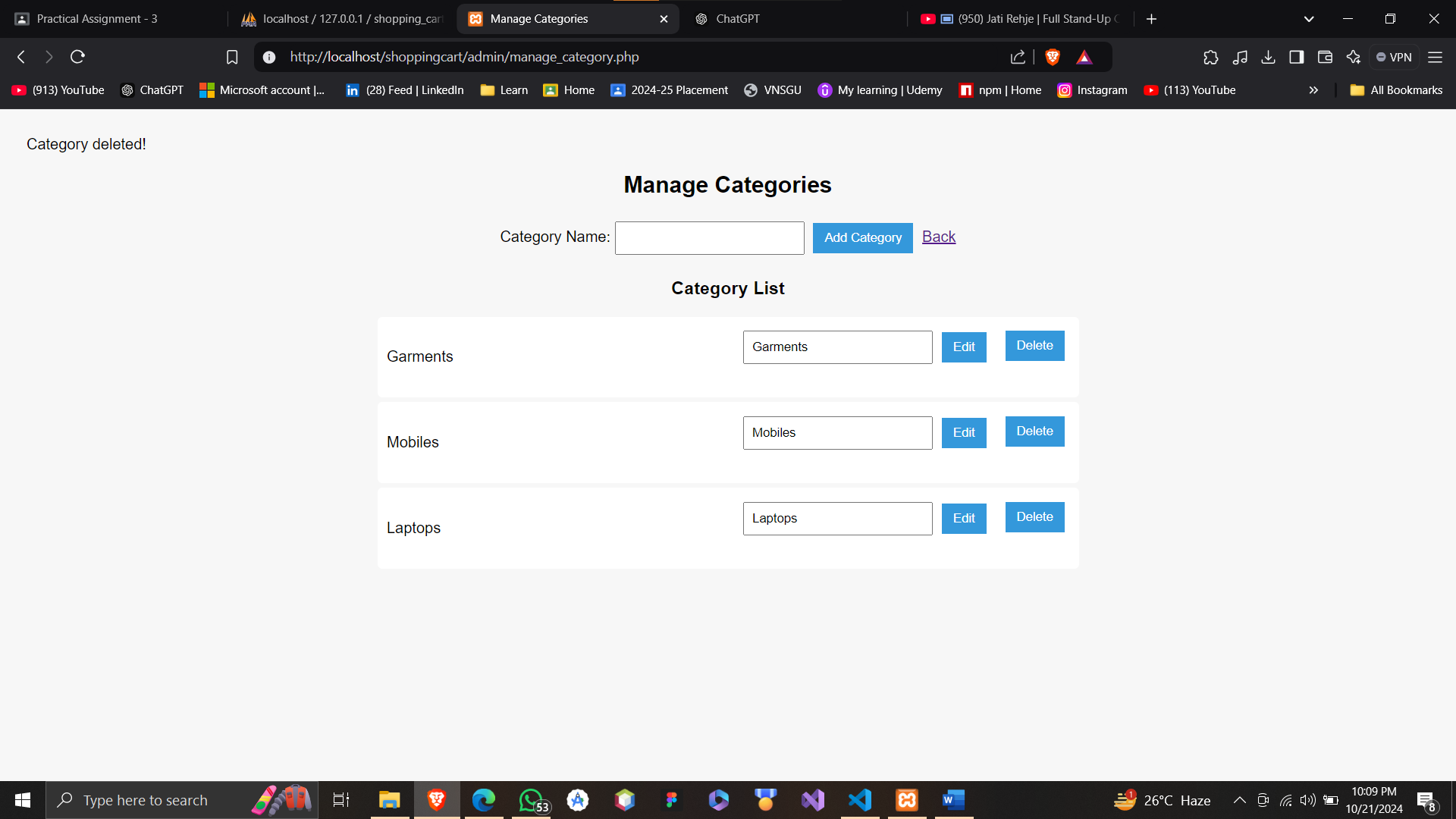




**Edit:**



**Delete:**



1. **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;

        }

        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>

            <img src="../images/<?php echo $prod['image']; ?>" alt="<?php echo $prod['name']; ?>" />

            <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" />

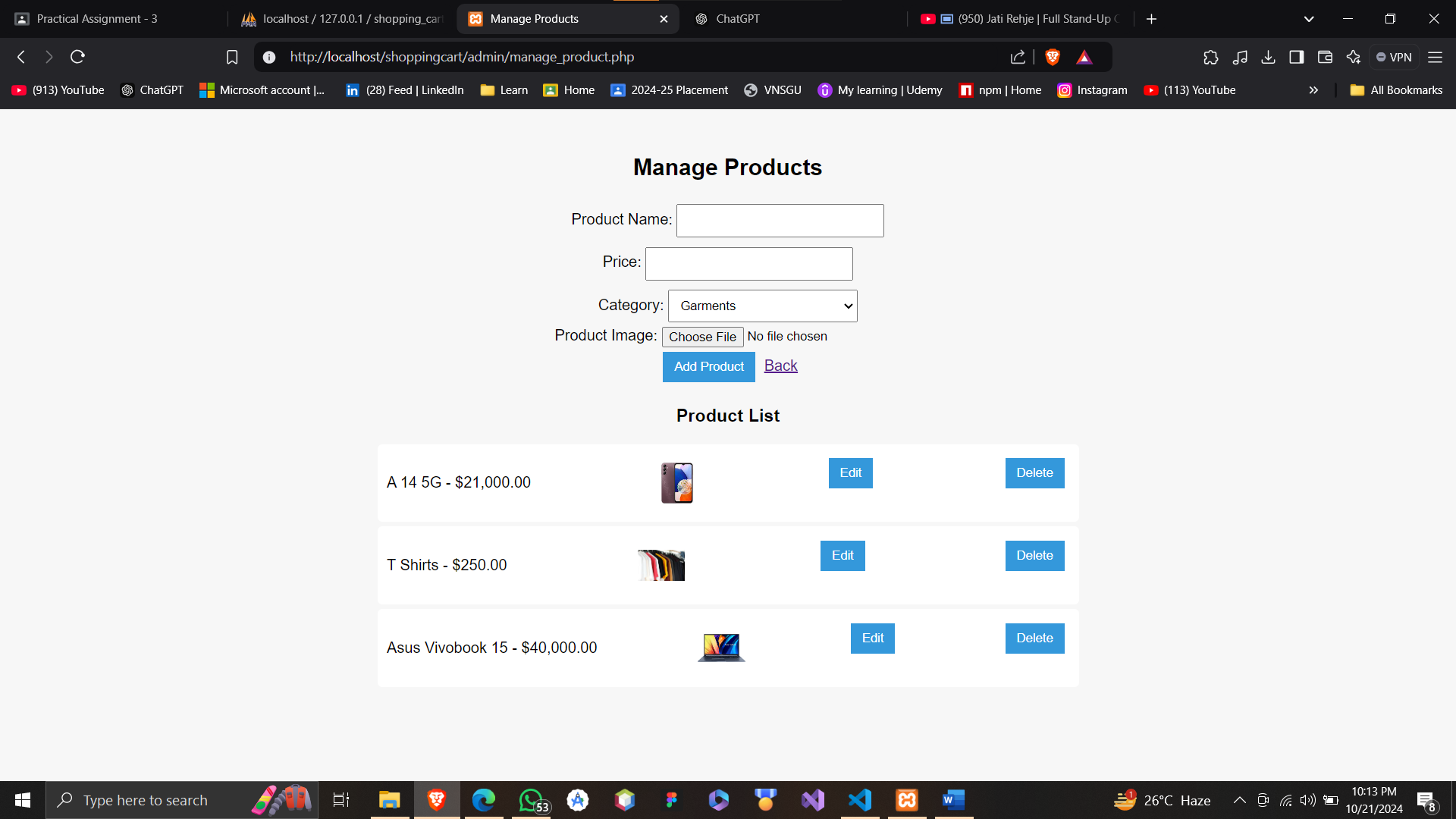
    </form>

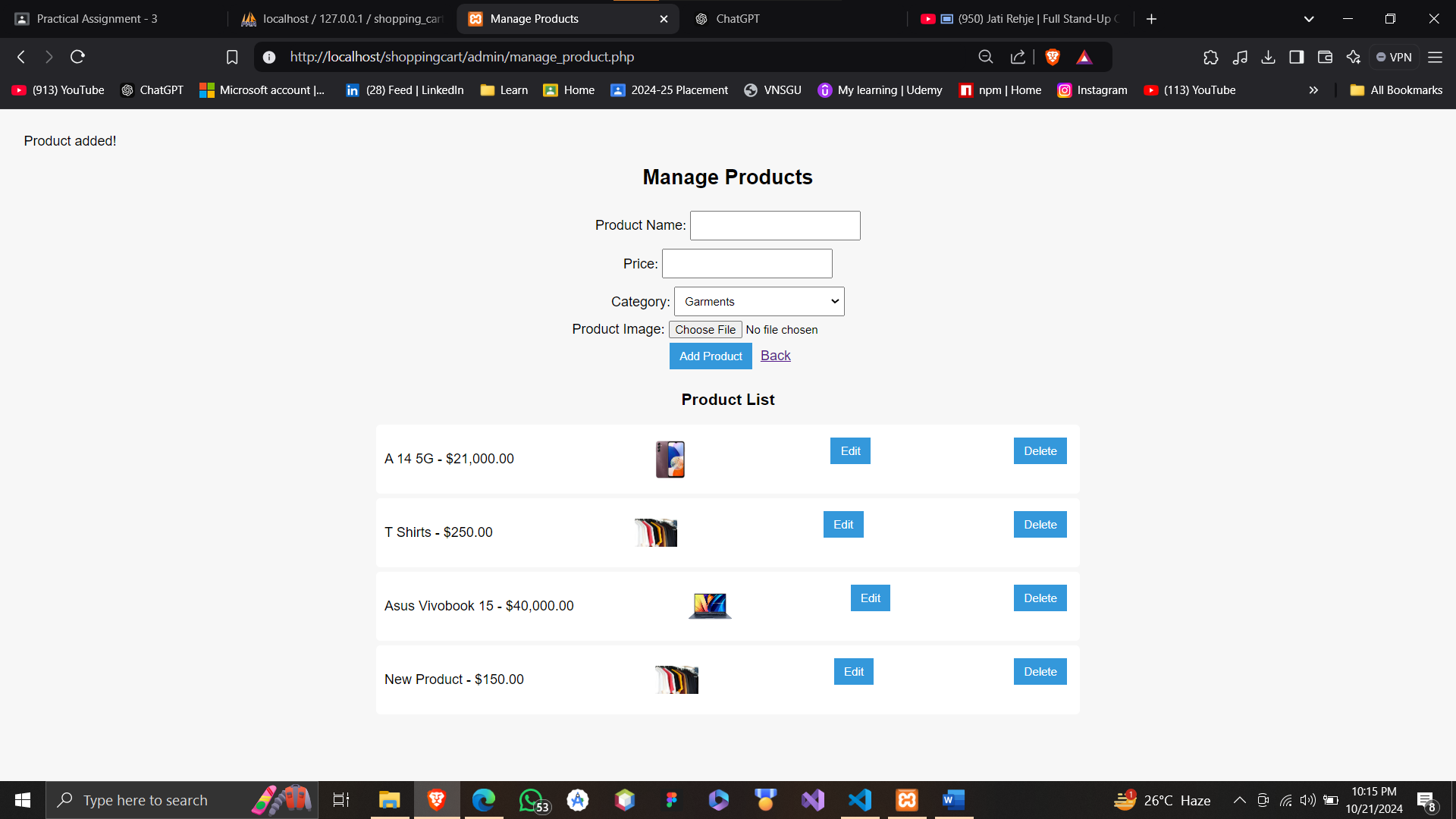
<?php endif; ?>

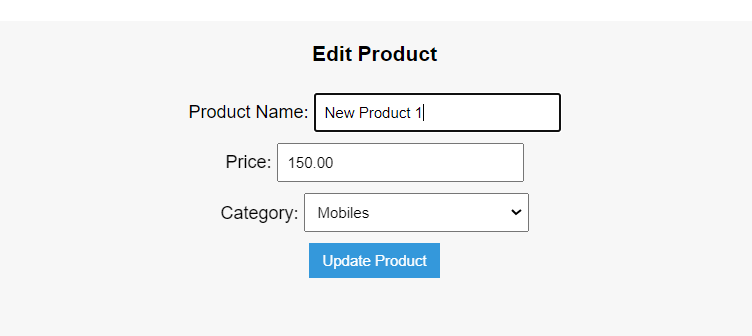
</body>

</html>

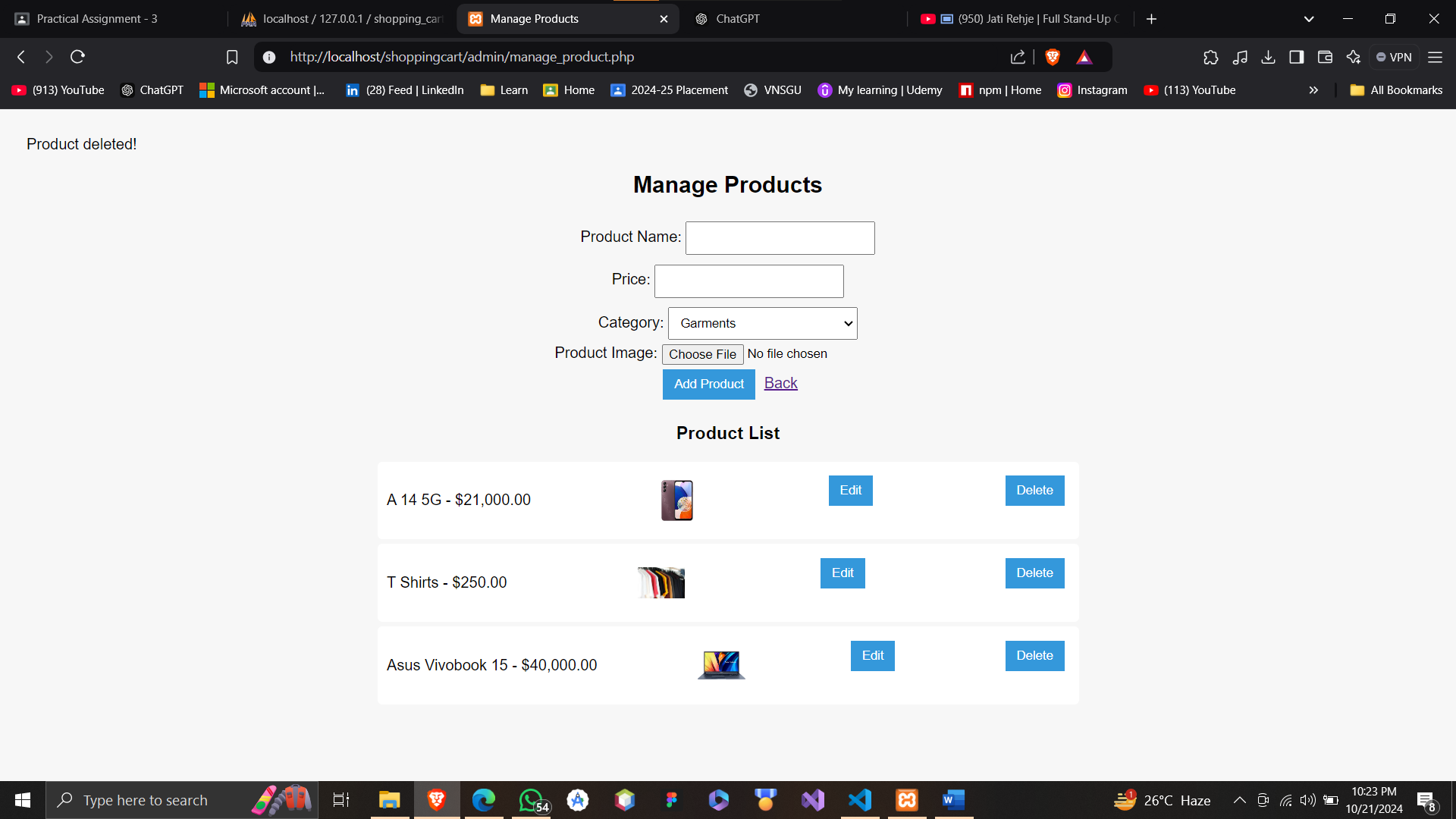
**Add:**



**Edit:**



**Delete:**



1. **Logout**

<?php

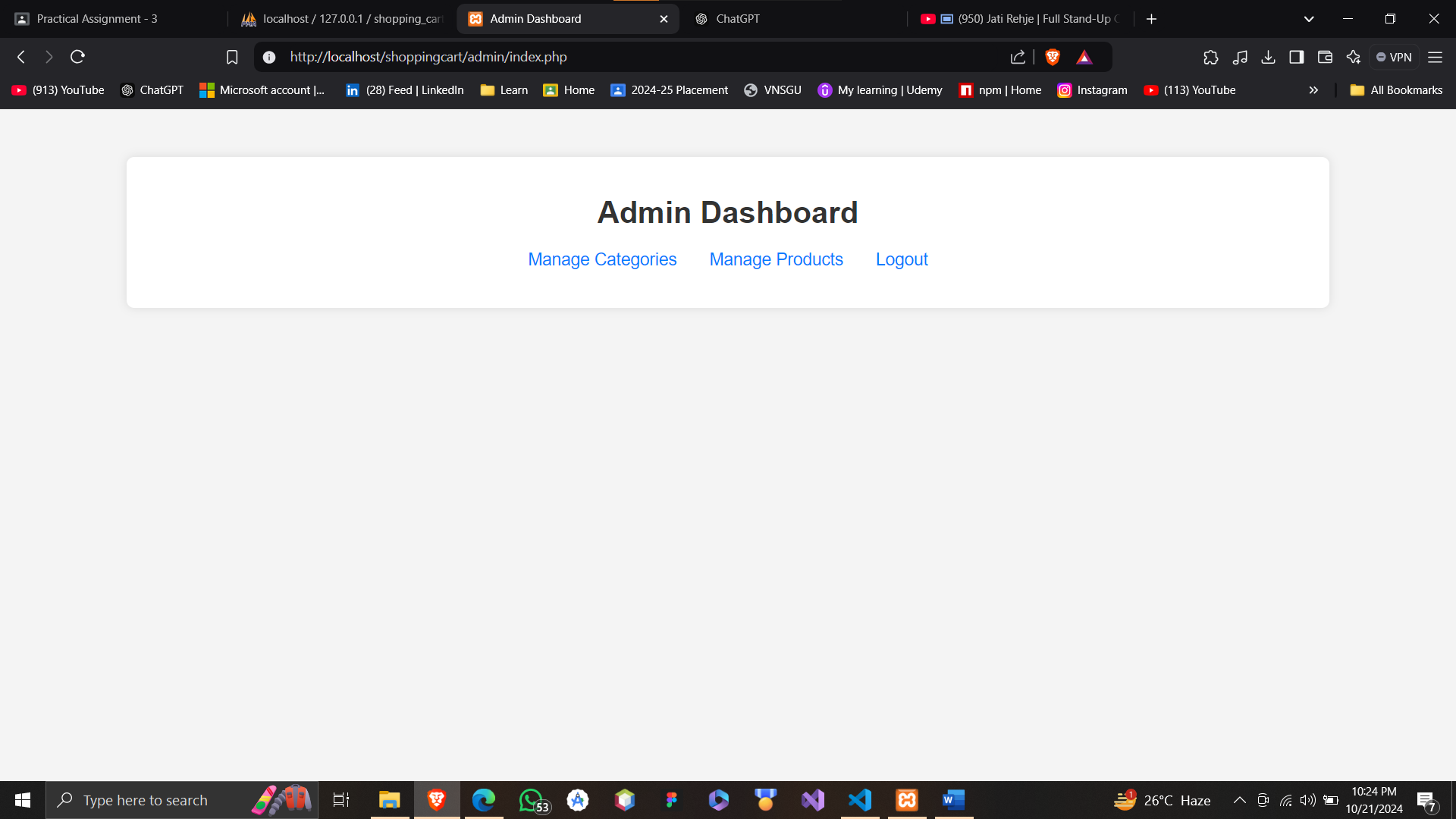
session\_start();

session\_destroy();

header('Location: index.php?page=login');

exit();

?>

****

* **User Site:**

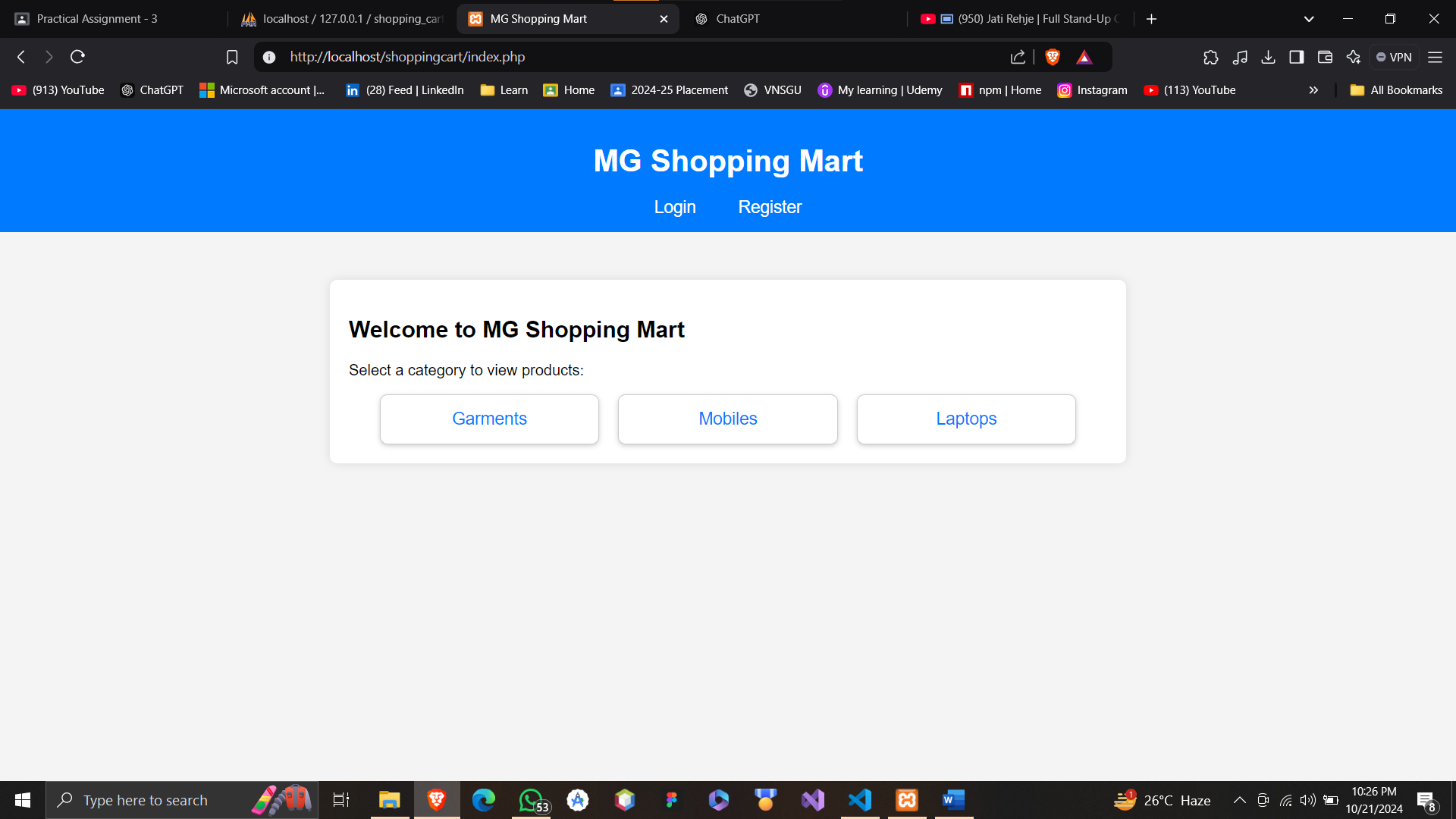
Categories pic p2 p3

Garments pname price

Mobiles p4

Laptops

1. **List Categories**

****

1. **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']; ?>">

                        <img src="../images/<?php echo $row['image']; ?>" alt="<?php echo $row['name']; ?>" />

                        <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: ?>

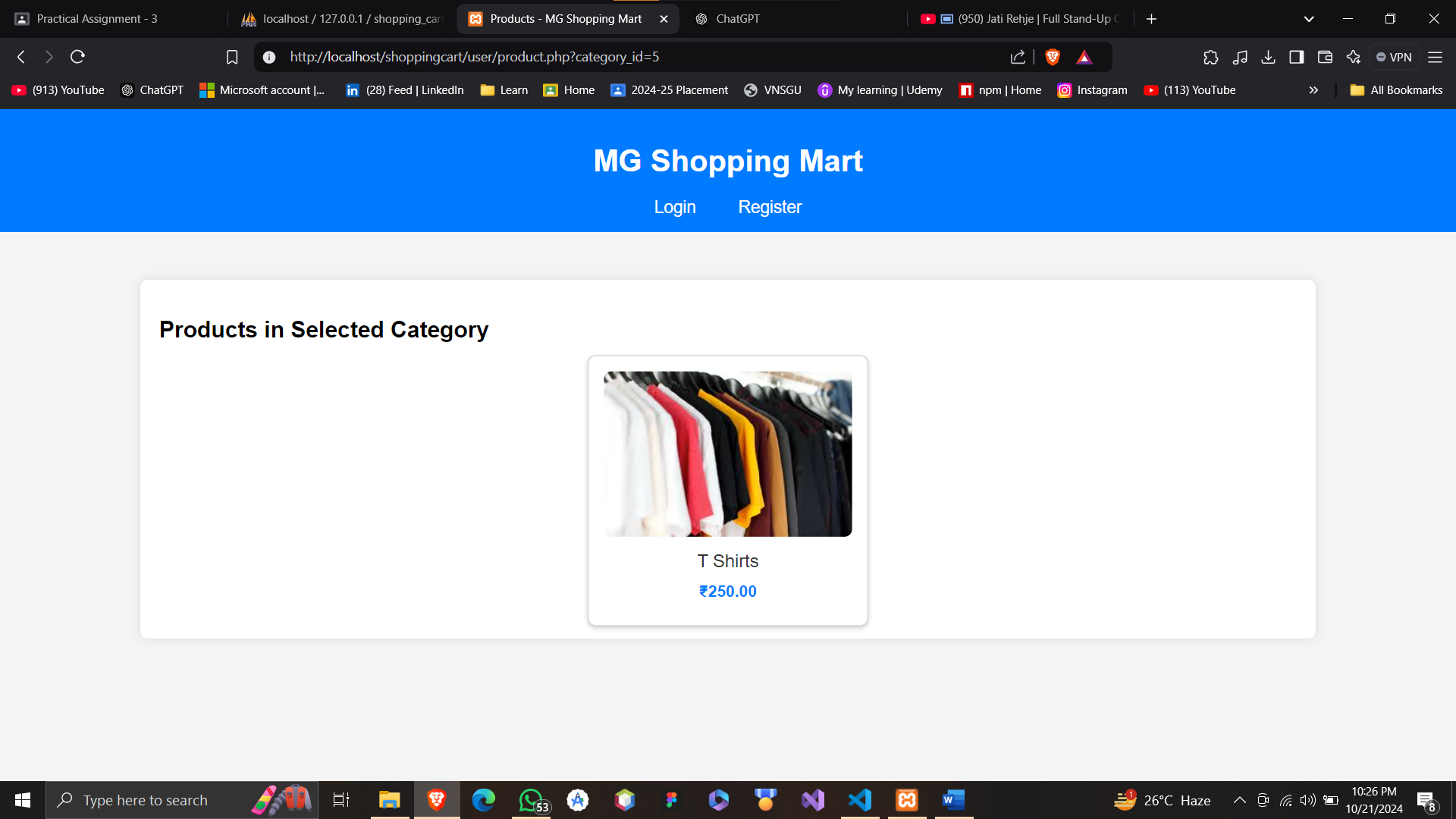
        <p>No products available in this category.</p>

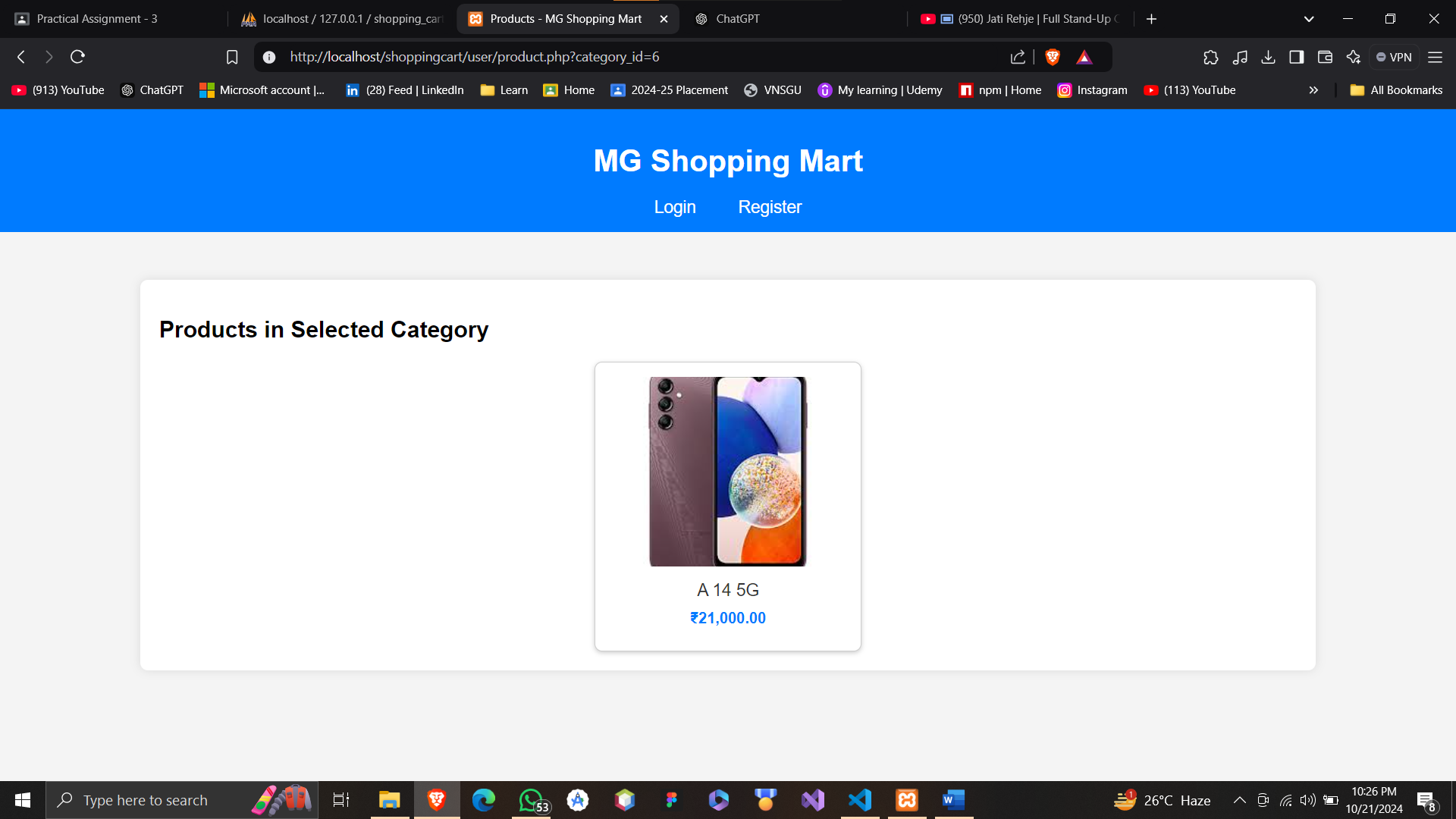
    <?php endif; ?>

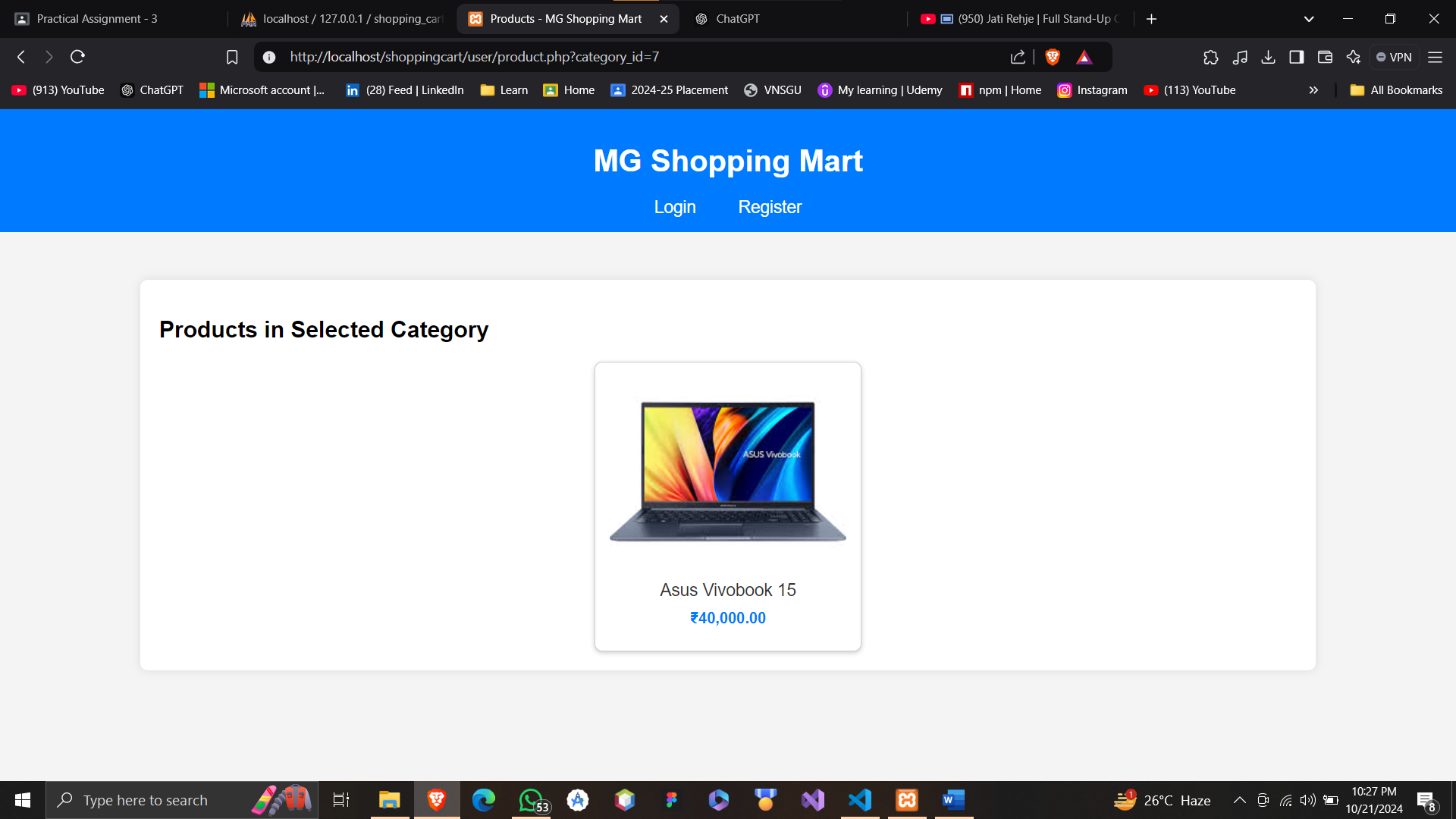
</div>

</body>

</html>

****

****

****

1. **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>

        <img src="captcha\_image.php" alt="CAPTCHA" style="vertical-align: middle;"><br/>

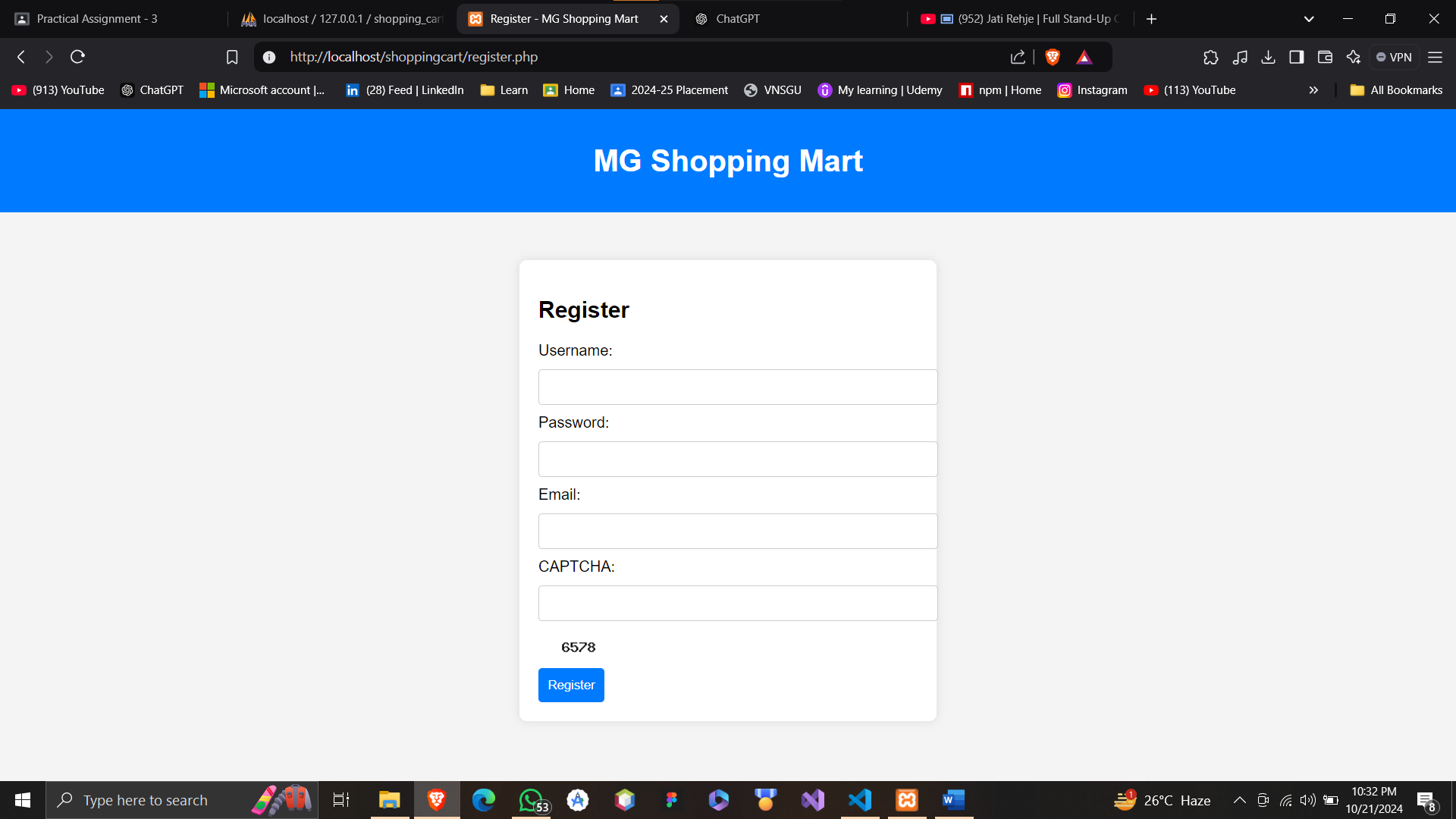
        <input type="submit" value="Register">

    </form>

</div>

</body>

</html>



**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/>

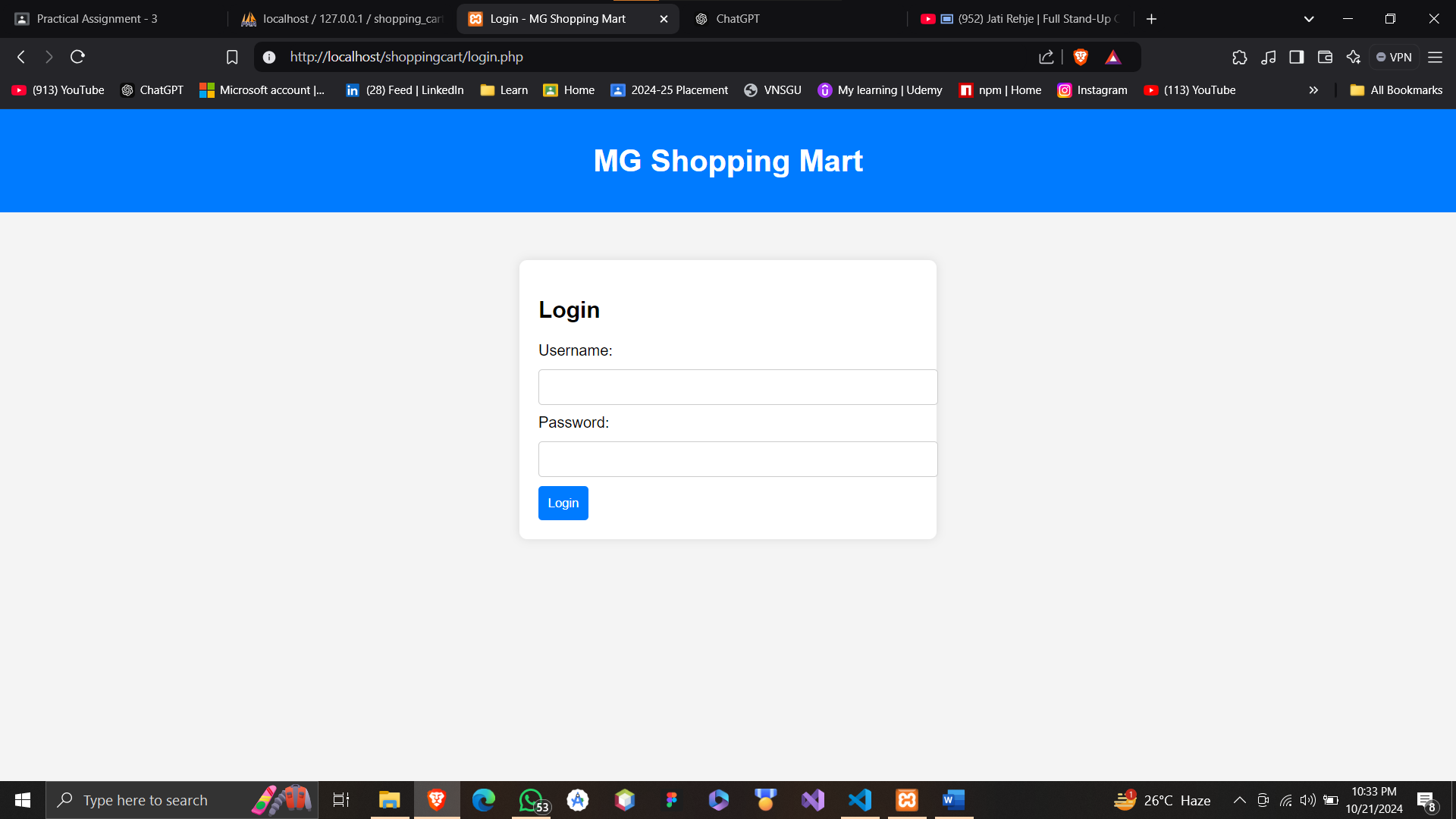
        <input type="submit" value="Login">

    </form>

</div>

</body>

</html>

****

**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>

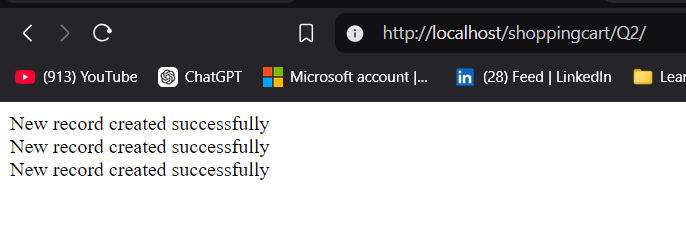
    <name>Nitin Mistry</name>

    <age>47</age>

    <course>Manager</course>

  </student>

</students>

****

**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>

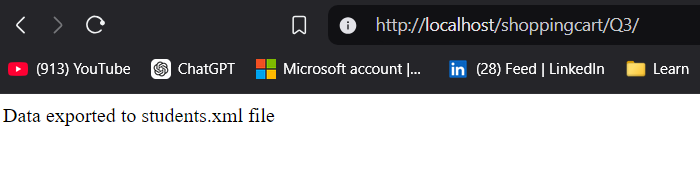
    <name>Gunjan Mistry</name>

    <age>17</age>

    <course>Information Technology</course>

</student>

</students>

****

**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>";

    }

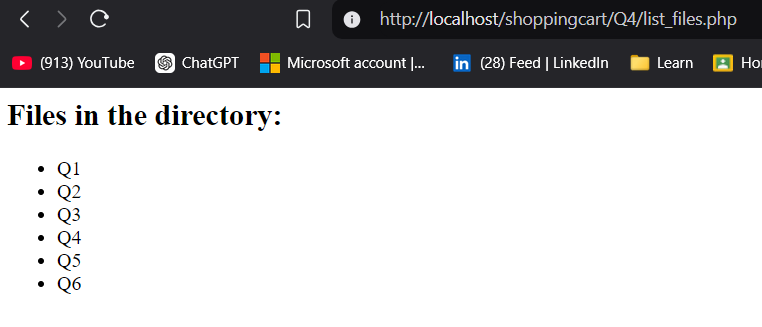
    echo "</ul>";

} else {

    echo "<h2>Directory does not exist.</h2>";

}

?>



**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!' });

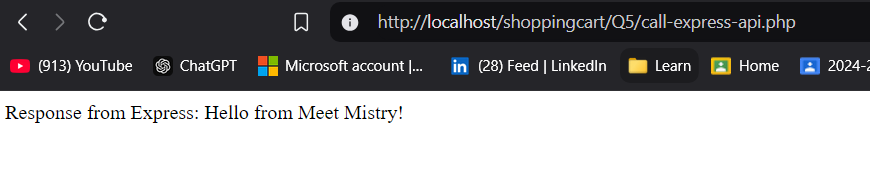
});

const port = 3000;

app.listen(port, () => {

    console.log(`Server is running on port ${port}`);

});



**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}`);

});

