Practical Assignment – 3

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Sem :- ICT-3

Roll No:- 27

Github Link = https://github.com/Dhruvinjariwala1/Nodejs_Assignment3

1) Develop a Shopping Cart in Php With Following Requirements:-

1) home.php

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Home Page</title>


  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css" rel="stylesheet">
  <style>
    .carousel-item {
      position: relative;
    }
    .carousel-caption {
      position: absolute;
      top: 40%;
      left: 50%;
```

```
            transform: translate(-50%, -50%);

            color: white;

            text-align: center;

        }

    </style>

</head>


<body>


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

        <div class="container-fluid">

            <a class="navbar-brand" href="home.php">Shopping Cart</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" id="navbarNav">

                <ul class="navbar-nav ms-auto">

                    <li class="nav-item">

                        <a class="nav-link" href="./login.php">Login</a>

                    </li>

                    <li class="nav-item">

                        <a class="nav-link" href="./register.php">Register</a>

                    </li>

                </ul>

            </div>
```

```html
      </div>
    </nav>
    <div id="carouselExampleInterval" class="carousel slide" data-bs-ride="carousel">
     <div class="carousel-inner">
      <div class="carousel-item active" data-bs-interval="10000">
       <img src="./s3.jpg" class="d-block w-100" alt="...">
       <div class="carousel-caption">
        <h1>Welcome to Our Shopping Cart</h1>
        <p>Find the best deals and offers!</p>
       </div>
      </div>
      <div class="carousel-item" data-bs-interval="2000">
       <img src="./s4.png" class="d-block w-100" alt="...">
       <div class="carousel-caption">
        <h1>Exclusive Products</h1>
        <p>Shop the latest trends and styles.</p>
       </div>
      </div>
      <div class="carousel-item">
       <img src="./s5.webp" class="d-block w-100" alt="...">
       <div class="carousel-caption">
        <h1>Special Discounts</h1>
        <p>Get amazing discounts on your favorite items!</p>
       </div>
      </div>
     </div>
```

```html
    <button          class="carousel-control-prev"          type="button"          data-bs-
target="#carouselExampleInterval" data-bs-slide="prev">

    <span class="carousel-control-prev-icon" aria-hidden="true"></span>

    <span class="visually-hidden">Previous</span>

  </button>

  <button          class="carousel-control-next"          type="button"          data-bs-
target="#carouselExampleInterval" data-bs-slide="next">

    <span class="carousel-control-next-icon" aria-hidden="true"></span>

    <span class="visually-hidden">Next</span>

  </button>

</div>



    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/js/bootstrap.bundle
.min.js"></script>

</body>

</html>
```
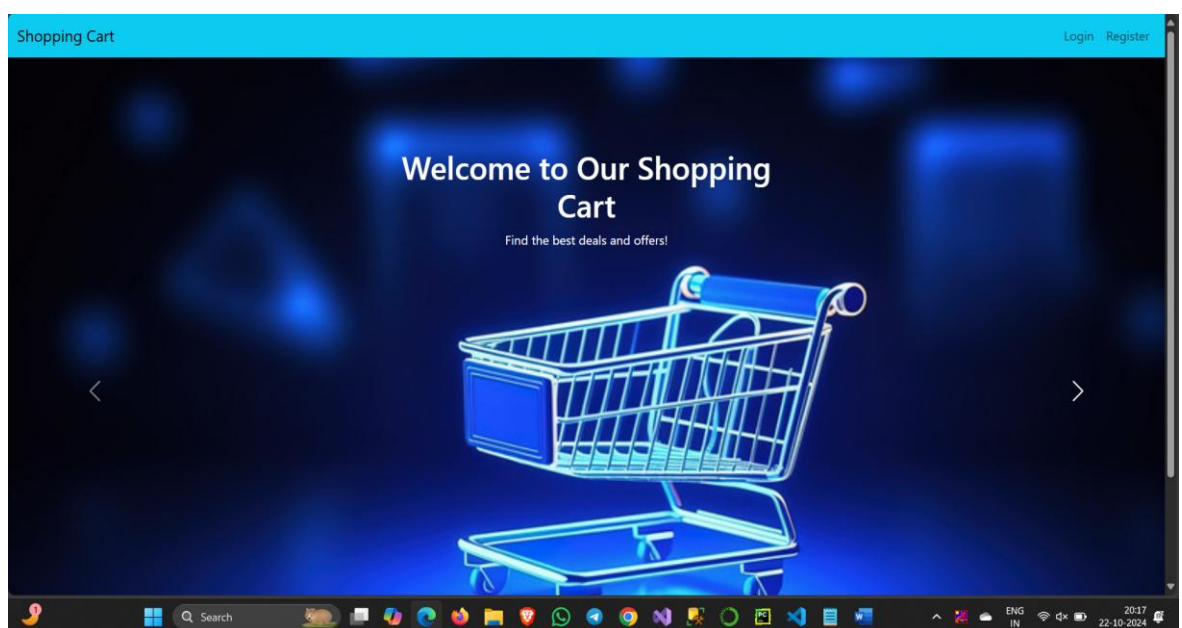
2) register.php

```php
<?php
include 'db.php';

if ($_SERVER["REQUEST_METHOD"] == "POST") {
   $username = $_POST['username'];
   $email = $_POST['email'];
   $password = password_hash($_POST['password'],
PASSWORD_DEFAULT);

   $stmt = $conn->prepare("INSERT INTO users (username, email,
password) VALUES (:username, :email, :password)");
   $stmt->bindParam(':username', $username);
   $stmt->bindParam(':email', $email);
   $stmt->bindParam(':password', $password);

   if ($stmt->execute()) {
      echo "User registered successfully!";
   } else {
      echo "Error: " . $stmt->errorInfo()[2];
   }
}
?>

<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-
scale=1.0">
   <title>Register</title>
   <script src="https://www.google.com/recaptcha/api.js" async
defer></script>
   <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.
min.css" rel="stylesheet" integrity="sha384-
QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JM
hjY6hW+ALEwIH" crossorigin="anonymous">
```

```html
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bu
ndle.min.js" integrity="sha384-
YvpcrYf0tY3lHB60NNkmXc5s9fDVZLESaAA55NDzOxhy9GkcIdsl
K1eN7N6jIeHz" crossorigin="anonymous"></script>
</head>
<body><br><br>
    <h2 class="text-center">Register</h2>
    <div class="container">
    <form action="" method="POST">
        <label for="username">Username:</label>
        <input type="text" name="username" class="form-control"
placeholder="Enter Your Username" required><br>

        <label for="email">Email:</label>
        <input type="email" name="email" class="form-control"
placeholder="Enter Your Email" required><br>

        <label for="password">Password:</label>
        <input type="password" name="password" class="form-control"
placeholder="Enter Your Password" required><br>

        <div class="g-recaptcha" data-
sitekey="6LdlF2gqAAAAAKIQDUpxf4iV_kk67PD41hdCbRvC"></
div><br>

        <button class="btn btn-primary" type="submit"
value="Register">Register Now</button>
    </form>
    </div>
    <script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.8/dist/umd/po
pper.min.js" integrity="sha384-
I7E8VVD/ismYTF4hNIPjVp/Zjvgyol6VFvRkX/vR+Vc4jQkC+hVqc
2pM8ODewa9r" crossorigin="anonymous"></script>
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.mi
n.js" integrity="sha384-
0pUGZvbkm6XF6gxjEnlmuGrJXVbNuzT9qBBavbLwCsOGabYfZo
0T0to5eqruptLy" crossorigin="anonymous"></script>
```
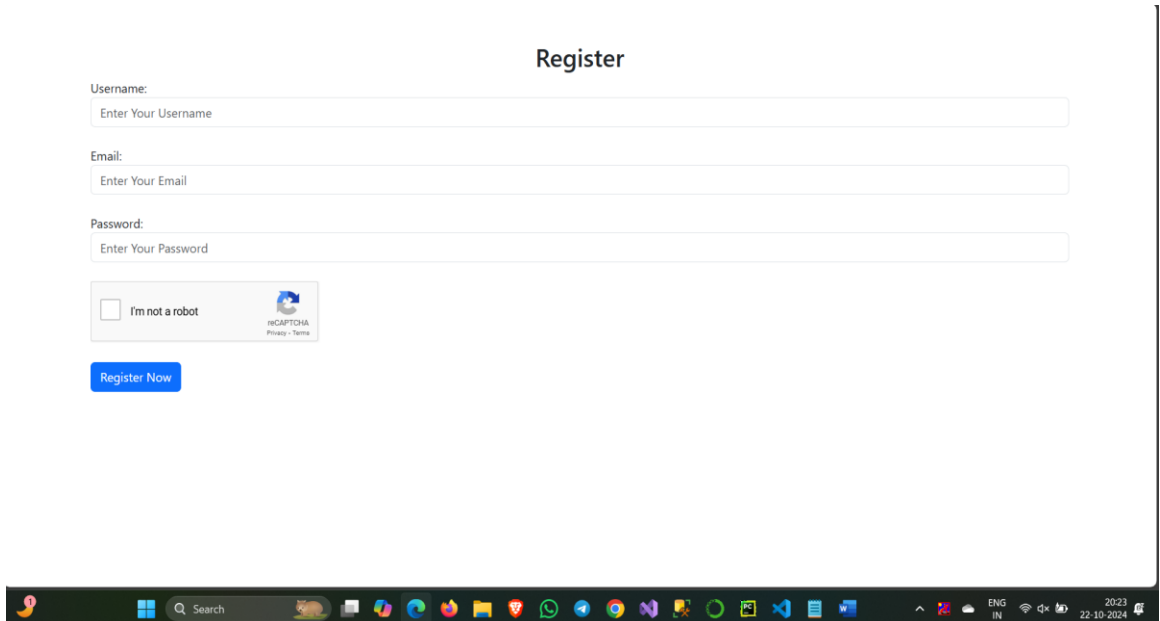
```
</body>
</html>
```


3) login.php

```php
<?php
include 'db.php';

if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $username = $_POST['username'];
    $password = $_POST['password'];

    $stmt = $conn->prepare("SELECT * FROM users WHERE
username = :username");
    $stmt->bindParam(':username', $username);
    $stmt->execute();
    $user = $stmt->fetch(PDO::FETCH_ASSOC);

    if ($user && password_verify($password, $user['password'])) {
        $_SESSION['user_id'] = $user['id'];
        echo "Login successful!";
    } else {
        echo "Invalid credentials!";
    }
```

```php
        }
?>
<?php
session_start();
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <title>Login</title>
    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.
min.css" rel="stylesheet" integrity="sha384-
QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JM
hjY6hW+ALEwIH" crossorigin="anonymous">
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bu
ndle.min.js" integrity="sha384-
YvpcrYf0tY3lHB60NNkmXc5s9fDVZLESaAA55NDzOxhy9GkcIdsl
K1eN7N6jIeHz" crossorigin="anonymous"></script>

</head>
<body><br><br>
    <h2 class="text-center">Login</h2>
    <div class="container">
    <form action="" method="POST">
        <label for="username">Username:</label>
        <input type="text" class="form-control" placeholder="Enter Your
Username" name="username" required><br>

        <label for="password">Password:</label>
        <input type="password" class="form-control"
placeholder="Enter Your Password" name="password" required><br>

        <button class="btn btn-primary" type="submit"
value="Login">Login Now</button>
    </form>
```

```html
    </div>
    <script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.8/dist/umd/po
pper.min.js" integrity="sha384-
I7E8VVD/ismYTF4hNIPjVp/Zjvgyol6VFvRkX/vR+Vc4jQkC+hVqc
2pM8ODewa9r" crossorigin="anonymous"></script>
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.mi
n.js" integrity="sha384-
0pUGZvbkm6XF6gxjEnlmuGrJXVbNuzT9qBBavbLwCsOGabYfZo
0T0to5eqruptLy" crossorigin="anonymous"></script>

</body>
</html>
```
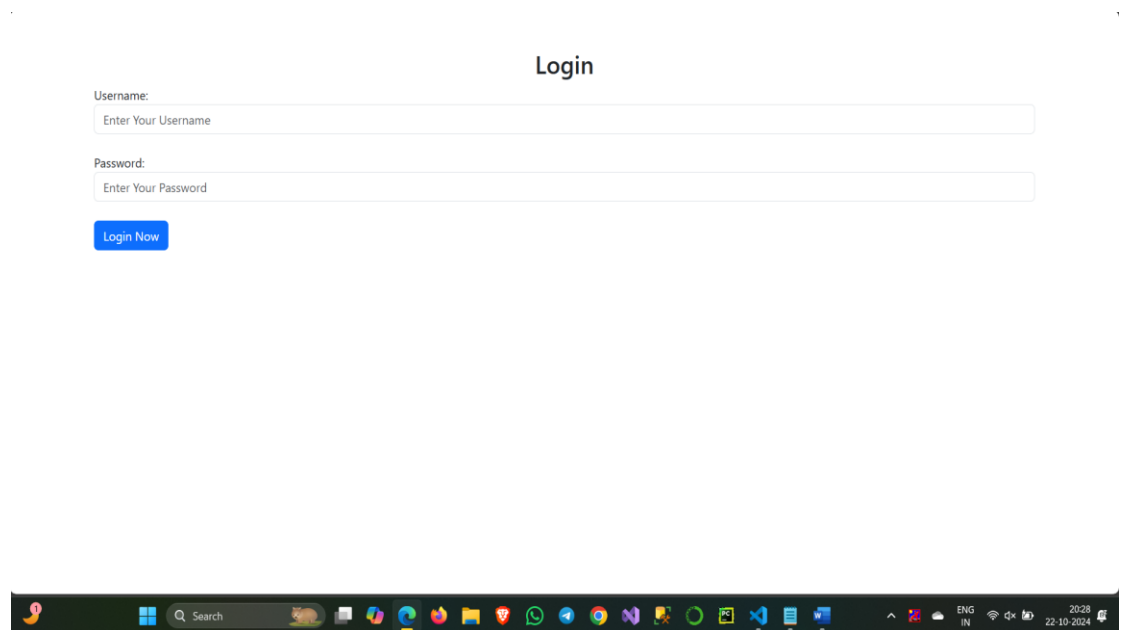

4) logout.php

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

5) db.php

```php
<?php
$host = 'localhost';
$db_name = 'shopping_cart';
$username = 'root';
$password = '1234';

try {
    $conn = new PDO("mysql:host=$host;dbname=$db_name",
$username, $password);
    $conn->setAttribute(PDO::ATTR_ERRMODE,
PDO::ERRMODE_EXCEPTION);
} catch (PDOException $e) {
    echo "Connection failed: " . $e->getMessage();
}
?>
```

2) Manage Category (CRUD)

1) category_store.php

```php
<?php
include 'db.php';

if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    $name = $_POST['name'];
    $description = $_POST['description'];

    $sql = "INSERT INTO categories (name, description) VALUES (?,
?)";
    $stmt = $conn->prepare($sql);
    $stmt->bind_param('ss', $name, $description);

    if ($stmt->execute()) {
        echo "Category added successfully!";
    } else {
        echo "Error: " . $stmt->error;
```

```php
        }

        $stmt->close();
        $conn->close();
}
?>
```
```html
<!DOCTYPE html>
<html>
<head>
    <title>Create Category</title>
    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.
min.css" rel="stylesheet" integrity="sha384-
QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JM
hjY6hW+ALEwIH" crossorigin="anonymous">
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bu
ndle.min.js" integrity="sha384-
YvpcrYf0tY3lHB60NNkmXc5s9fDVZLESaAA55NDzOxhy9GkcIdsl
K1eN7N6jIeHz" crossorigin="anonymous"></script>

</head>
<body><br><br>
    <h2 class="text-center">Add New Category</h2>
    <div class="container">
    <form action="category_store.php" method="POST">
        <label for="name">Category Name:</label><br>
        <input type="text" class="form-control" placeholder="Enter Your
Category Name" id="name" name="name" required><br>

        <label for="description">Description:</label><br>
        <textarea id="description" class="form-control"
placeholder="Enter Description" name="description"
required></textarea><br>

        <button type="submit" class="btn btn-primary" >Add
Category</button>
    </form>
    </div>
```
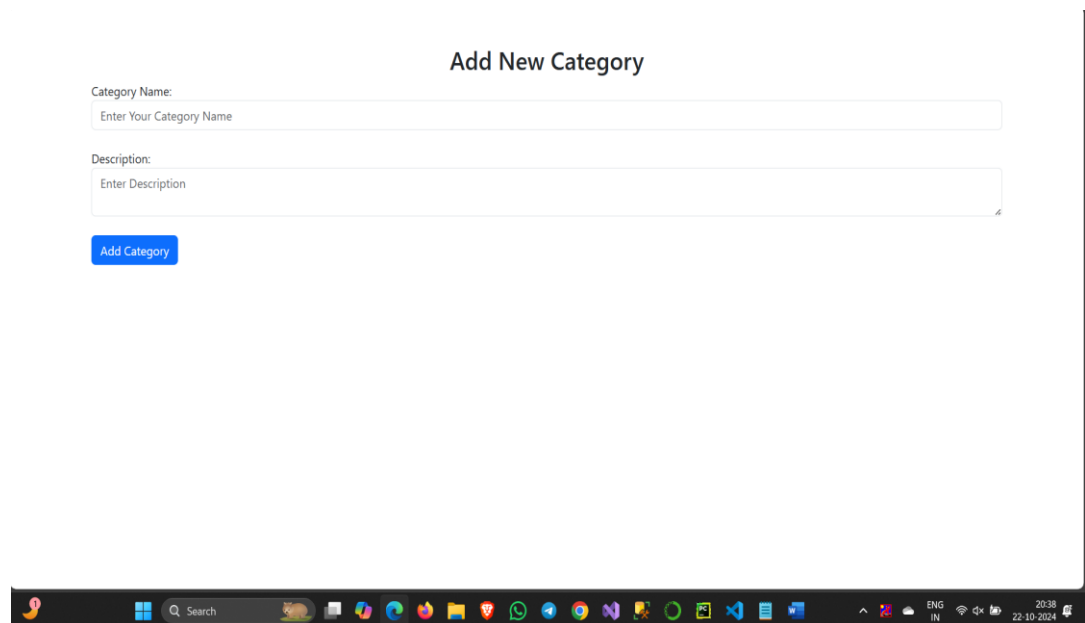
```html
    <script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.8/dist/umd/po
pper.min.js" integrity="sha384-
I7E8VVD/ismYTF4hNIPjVp/Zjvgyol6VFvRkX/vR+Vc4jQkC+hVqc
2pM8ODewa9r" crossorigin="anonymous"></script>
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.mi
n.js" integrity="sha384-
0pUGZvbkm6XF6gxjEnlmuGrJXVbNuzT9qBBavbLwCsOGabYfZo
0T0to5eqruptLy" crossorigin="anonymous"></script>

</body>
</html>
```


2) category_edit.php

```php
<?php
include 'db.php';


$id = $_GET['id'];
$sql = "SELECT * FROM categories WHERE id = ?";
$stmt = $conn->prepare($sql);
$stmt->bind_param('i', $id);
```

```php
$stmt->execute();
$result = $stmt->get_result();
$category = $result->fetch_assoc();
?>
```

```html
<!DOCTYPE html>
<html>
<head>
    <title>Edit Category</title>
    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.
min.css" rel="stylesheet" integrity="sha384-
QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JM
hjY6hW+ALEwIH" crossorigin="anonymous">
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bu
ndle.min.js" integrity="sha384-
YvpcrYf0tY3lHB60NNkmXc5s9fDVZLESaAA55NDzOxhy9GkcIdsl
K1eN7N6jIeHz" crossorigin="anonymous"></script>

</head>
<body><br><br>
    <h2 class="text-center">Edit Category</h2>
    <div class="container">
    <form action="update_category.php?id=<?php echo $category['id'];
?>" method="POST">
        <label for="name">Category Name:</label><br>
        <input type="text" class="form-control" placeholder="Enter Your
Category Name" id="name" name="name" value="<?php echo
$category['name']; ?>" required><br><br>

        <label for="description">Description:</label><br>
        <textarea id="description" class="form-control"
placeholder="Enter Description" name="description" required><?php
echo $category['description']; ?></textarea><br><br>

        <button type="submit" class="btn btn-warning">Update
Category</button>
    </form>
    </div>
```

```html
    <script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.8/dist/umd/po
pper.min.js" integrity="sha384-
I7E8VVD/ismYTF4hNIPjVp/Zjvgyol6VFvRkX/vR+Vc4jQkC+hVqc
2pM8ODewa9r" crossorigin="anonymous"></script>
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.mi
n.js" integrity="sha384-
0pUGZvbkm6XF6gxjEnlmuGrJXVbNuzT9qBBavbLwCsOGabYfZo
0T0to5eqruptLy" crossorigin="anonymous"></script>

</body>
</html>
```


3) category_delete.php

```php
<?php
include 'db.php';

$id = $_GET['id'];
$sql = "DELETE FROM categories WHERE id = ?";
$stmt = $conn->prepare($sql);
$stmt->bind_param('i', $id);

if ($stmt->execute()) {
    echo "Category deleted successfully!";
```

```php
  } else {
    echo "Error: " . $stmt->error;
  }

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

4) category_list.php

```php
<?php
include 'db.php';

$sql = "SELECT * FROM categories";
$result = $conn->query($sql);
?>
```

```html
<!DOCTYPE html>
<html>
<head>
  <title>Categories List</title>
  <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.
min.css" rel="stylesheet" integrity="sha384-
QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JM
hjY6hW+ALEwIH" crossorigin="anonymous">
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bu
ndle.min.js" integrity="sha384-
YvpcrYf0tY3lHB60NNkmXc5s9fDVZLESaAA55NDzOxhy9GkcIdsl
K1eN7N6jIeHz" crossorigin="anonymous"></script>

</head>
<body><br><br>
  <h2 class="text-center">Categories</h2>
  <div class="container">
  <table class="table table-bordered">
    <thead class="table-dark">
    <tr>
      <th>ID</th>
```

```php
            <th>Name</th>
            <th>Description</th>
            <th>Action</th>
        </tr>
        </thead>
        <?php while($row = $result->fetch_assoc()): ?>
        <tr>
            <td><?php echo $row['id']; ?></td>
            <td><?php echo $row['name']; ?></td>
            <td><?php echo $row['description']; ?></td>
            <td>
                <a class="btn btn-warning"
href="category_edit.php?id=<?php echo $row['id']; ?>">Edit</a> |
                <a class="btn btn-danger"
href="category_delete.php?id=<?php echo $row['id']; ?>"
onclick="return confirm('Are you sure?')">Delete</a>
            </td>
        </tr>
        <?php endwhile; ?>
    </table>
    <a class="btn btn-primary" href="category_store.php">Back</a>
    </div>
    <script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.8/dist/umd/po
pper.min.js" integrity="sha384-
I7E8VVD/ismYTF4hNIPjVp/Zjvgyol6VFvRkX/vR+Vc4jQkC+hVqc
2pM8ODewa9r" crossorigin="anonymous"></script>
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.mi
n.js" integrity="sha384-
0pUGZvbkm6XF6gxjEnlmuGrJXVbNuzT9qBBavbLwCsOGabYfZo
0T0to5eqruptLy" crossorigin="anonymous"></script>

</body>
</html>
```

Categories

ID	Name	Description	Action
1	Iphone 14	Iphone is good company and products	Edit | Delete
2	google pixel 9	google is best products	Edit | Delete
4	Samsung	the samsung good company and products best deals	Edit | Delete

Back

5) update_category.php

```php
<?php
include 'db.php';

if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    $id = $_GET['id'];
    $name = $_POST['name'];
    $description = $_POST['description'];

    $sql = "UPDATE categories SET name = ?, description = ?
WHERE id = ?";
    $stmt = $conn->prepare($sql);
    $stmt->bind_param('ssi', $name, $description, $id);

    if ($stmt->execute()) {
        echo "Category updated successfully!";
    } else {
        echo "Error: " . $stmt->error;
    }

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

6) db.php

```php
<?php
$host = "localhost";
$user = "root";
$password = "1234";
$dbname = "shopping_cart";

$conn = new mysqli($host, $user, $password, $dbname);

if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
?>
```

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

1) product_add.php

```php
<?php
include 'db.php';

if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $product_name = $_POST['product_name'];
    $category_id = $_POST['category_id'];
    $description = $_POST['description'];
    $price = $_POST['price'];

    $image_path = '';
    if (isset($_FILES['image']) && $_FILES['image']['error'] == 0) {
        $image_name = basename($_FILES['image']['name']);
        $image_path = "uploads/" . $image_name;
        move_uploaded_file($_FILES['image']['tmp_name'],
$image_path);
    }
```

```php
    $stmt = $pdo->prepare("INSERT INTO products (product_name,
id, description, price, image_path) VALUES (?, ?, ?, ?, ?)");
    $stmt->execute([$product_name, $category_id, $description,
$price, $image_path]);

    echo "Product added successfully!";
}
?>
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.
min.css" rel="stylesheet" integrity="sha384-
QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JM
hjY6hW+ALEwIH" crossorigin="anonymous">
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bu
ndle.min.js" integrity="sha384-
YvpcrYf0tY3lHB60NNkmXc5s9fDVZLESaAA55NDzOxhy9GkcIdsl
K1eN7N6jIeHz" crossorigin="anonymous"></script>
<br><br>
<h2 class="text-center">Create a New Product</h2>
<div class="container">
<form method="post" enctype="multipart/form-data">
    <label for="product_name">Product Name:-</label>
    <input type="text" name="product_name" class="form-control"
placeholder="Product Name" required><br>
    <label for="category_id">Category</label>
    <select name="category_id" class="form-control">
      <?php
      $categories = $pdo->query("SELECT id, name FROM
categories");
      foreach ($categories as $category) {
        echo "<option
value='{$category['id']}'>{$category['name']}</option>";
      }
      ?>
    </select><br>
    <label for="description">Description:-</label>
    <textarea name="description" class="form-control"
placeholder="Description"></textarea><br>
    <label for="price">Price:-</label>
```

```html
    <input type="number" name="price" class="form-control" placeholder="Price" required><br>
    <label for="image">Product Image</label>
    <input type="file" class="form-control" name="image"><br>
    <button class="btn btn-primary" type="submit">Add Product</button>
</form>
</div>
<script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.8/dist/umd/popper.min.js" integrity="sha384-I7E8VVD/ismYTF4hNIPjVp/Zjvgyol6VFvRkX/vR+Vc4jQkC+hVqc2pM8ODewa9r" crossorigin="anonymous"></script>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.min.js" integrity="sha384-0pUGZvbkm6XF6gxjEnlmuGrJXVbNuzT9qBBavbLwCsOGabYfZo0T0to5eqruptLy" crossorigin="anonymous"></script>
```


2) product_edit.php

```php
<?php
include 'db.php';
```

```php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $product_id = $_POST['product_id'];
    $product_name = $_POST['product_name'];
    $category_id = $_POST['category_id'];
    $description = $_POST['description'];
    $price = $_POST['price'];

    $image_path = $_POST['current_image'];

    if (isset($_FILES['image']) && $_FILES['image']['error'] == 0) {
        $image_name = basename($_FILES['image']['name']);
        $image_path = "uploads/" . $image_name;
        move_uploaded_file($_FILES['image']['tmp_name'],
$image_path);
    }

    $stmt = $pdo->prepare("UPDATE products SET product_name = ?,
id = ?, description = ?, price = ?, image_path = ? WHERE product_id
= ?");
    $stmt->execute([$product_name, $category_id, $description,
$price, $image_path, $product_id]);

    echo "Product updated successfully!";
}

$product_id = $_GET['id'];
$product = $pdo->prepare("SELECT * FROM products WHERE
product_id = ?");
$product->execute([$product_id]);
$product = $product->fetch();
?>
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.
min.css" rel="stylesheet" integrity="sha384-
QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JM
hjY6hW+ALEwIH" crossorigin="anonymous">
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bu
ndle.min.js" integrity="sha384-
```

```
YvpcrYf0tY3lHB60NNkmXc5s9fDVZLESaAA55NDzOxhy9GkcIdsl
K1eN7N6jIeHz" crossorigin="anonymous"></script>
<br><br>
<h2 class="text-center">Update Products</h2>
<div class="container">
<form method="post" enctype="multipart/form-data">
   <label for="product_id">Product Id:-</label>
   <input type="hidden" class="form-control" name="product_id"
value="<?php echo $product['product_id']; ?>">
   <label for="product_name">Product Name:-</label>
   <input type="text" class="form-control" placeholder="Enter Your
Product Name" name="product_name" value="<?php echo
$product['product_name']; ?>" required><br>
   <label for="category_id">Category:-</label>
   <select class="form-control" name="category_id">
      <?php
      $categories = $pdo->query("SELECT id, name FROM
categories");
      foreach ($categories as $category) {
         $selected = $category['id'] == $product['id'] ? 'selected' : '';
         echo "<option value='{$category['id']}'
{$selected}>{$category['name']}</option>";
      }
      ?>
   </select><br>
   <label for="description">Description</label>
   <textarea class="form-control" placeholder="Enter Description"
name="description"><?php echo $product['description'];
?></textarea><br>
   <label for="price">Price:-</label>
   <input class="form-control" placeholder="Enter Your Price"
type="text" name="price" value="<?php echo $product['price']; ?>"
required><br>
   <label for="image">Product Image</label>
   <input type="file" class="form-control" name="image"><br>
   <input type="hidden" name="current_image" value="<?php echo
$product['image_path']; ?>">
   <button class="btn btn-primary" type="submit">Update
Product</button>
   <a class="btn btn-primary" href="product_add.php">Back</a>
```

```
</form>
</div>
<script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.8/dist/umd/po
pper.min.js" integrity="sha384-
I7E8VVD/ismYTF4hNIPjVp/Zjvgyol6VFvRkX/vR+Vc4jQkC+hVqc
2pM8ODewa9r" crossorigin="anonymous"></script>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.mi
n.js" integrity="sha384-
0pUGZvbkm6XF6gxjEnlmuGrJXVbNuzT9qBBavbLwCsOGabYfZo
0T0to5eqruptLy" crossorigin="anonymous"></script>
```


3) product_delete.php

```php
<?php
include 'db.php';

if (isset($_GET['id'])) {
    $product_id = $_GET['id'];

    $product = $pdo->prepare("SELECT image_path FROM products
WHERE product_id = ?");
    $product->execute([$product_id]);
    $product = $product->fetch();
```

```php
    if ($product['image_path'] && file_exists($product['image_path']))
{
        unlink($product['image_path']);
    }

    $stmt = $pdo->prepare("DELETE FROM products WHERE
product_id = ?");
    $stmt->execute([$product_id]);

    echo "Product deleted successfully!";
}
?>
```

4) product_read.php

```php
<?php
include 'db.php';


$products = $pdo->query("SELECT products.*, categories.name AS
category_name FROM products
                JOIN categories ON products.id = categories.id");
?>
```

```html
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.
min.css" rel="stylesheet" integrity="sha384-
QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JM
hjY6hW+ALEwIH" crossorigin="anonymous">
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bu
ndle.min.js" integrity="sha384-
YvpcrYf0tY3lHB60NNkmXc5s9fDVZLESaAA55NDzOxhy9GkcIdsl
K1eN7N6jIeHz" crossorigin="anonymous"></script>
<br><br>
<h2 class="text-center">Products List</h2>

<div class="container mt-5">
    <table class="table table-bordered">
        <thead class="table-dark">
```

```php
            <tr>
                <th>Product Name</th>
                <th>Category</th>
                <th>Description</th>
                <th>Price</th>
                <th>Image</th>
                <th>Actions</th>
            </tr>
        </thead>
        <tbody>
            <?php foreach ($products as $product): ?>
                <tr>
                    <td><?= htmlspecialchars($product['product_name']) ?></td>
                    <td><?= htmlspecialchars($product['category_name']) ?></td>
                    <td><?= htmlspecialchars($product['description']) ?></td>
                    <td>$<?= htmlspecialchars($product['price']) ?></td>
                    <td>
                        <?php if ($product['image_path']): ?>
                            <img src="<?= htmlspecialchars($product['image_path']) ?>" width="100">
                        <?php endif; ?>
                    </td>
                    <td>
                        <a href="product_edit.php?id=<?= $product['product_id'] ?>" class="btn btn-warning">Edit</a>
                        <a href="product_delete.php?id=<?= $product['product_id'] ?>" class="btn btn-danger">Delete</a>
                    </td>
                </tr>
            <?php endforeach; ?>
        </tbody>
    </table>
</div>
```

Products List

Product Name	Category	Description	Price	Image	Actions
Google Pixel 9 pro	Iphone 14	good	$80000		Edit Delete
Apple MacBook AIR Apple M2	Iphone 14	Apple is good products and best quality	$75990		Edit Delete
Realme Buds T111	google pixel 9	Realme is good products	$1099		Edit Delete

4) Read data from students.xml file and store them in students table of MySQL.

1) **index.php**

```php
<?php

$servername = "localhost";
$username = "root";
$password = "1234";
$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;
```

```php
    $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();
?>
```

2) students.xml

```xml
<students>
 <student>
  <id>1</id>
  <name>Abhi Jariwala</name>
  <age>21</age>
  <course>Computer Science</course>
 </student>
 <student>
  <id>2</id>
  <name>Varun Rajput</name>
  <age>20</age>
  <course>Information Technology</course>
 </student>
 <student>
  <id>3</id>
  <name>Dhruvin Jariwala</name>
  <age>23</age>
  <course>Bachelor of Computer Application</course>
 </student>
</students>
```

5) Read data from students table of MySQL and store them in students.xml file.

1) **index.php**

```php
<?php

$servername = "localhost";
$username = "root";
$password = "1234";
$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();
?>
```

2) **students.xml**

```xml
<students>
 <student>
  <id>1</id>
  <name>Abhi Jariwala</name>
  <age>21</age>
  <course>Computer Science</course>
 </student>
 <student>
  <id>2</id>
  <name>Varun Rajput</name>
  <age>20</age>
  <course>Information Technology</course>
 </student>
 <student>
  <id>3</id>
  <name>Dhruvin Jariwala</name>
  <age>23</age>
  <course>Bachelor of Computer Application</course>
 </student>
</students>
```

6) List files in a directory.

1) List_files.php

```php
<?php
$directory = 'C:\wamp64\www\Nodejs_Assignment3';

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>";
  }
```

```php
        echo "</ul>";
    } else {
        echo "<h2>Directory does not exist.</h2>";
    }
    ?>
```


7) Call express rest api in php.

1) call_express_api.php

```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'];
}
```

```php
        curl_close($ch);
        ?>
```

2) server.js

```javascript
const express = require('express');
const app = express();

app.use(express.json());

app.get('/api/data', (req, res) => {
    res.json({ message: 'Hello from Dhruvin Jariwala!' });
});

const port = 5000;
app.listen(port, () => {
    console.log(`Server is running on port ${port}`);
});
```

6) Call php rest api in express.

1) api.php

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

$data = [
    ["id" => 1, "name" => "Abhi", "email" => "abhi@example.com"],
    ["id" => 2, "name" => "Varun", "email" => "varun@example.com"]
];

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

2) express_server.js

```javascript
const express = require('express');
```

```javascript
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/students/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}`);
});
```