Assignment: Build an E-commerce Website in PHP

Objective:

The purpose of this assignment is to develop an e-commerce website using PHP and MySQL. Students will learn to implement essential features such as user authentication, product management, cart functionality, and a simple admin panel for product management.

Assignment Requirements

1. User Features:

1. **User Registration:**
   a. Create a user registration form where students can input a username, email, and password.
   b. Ensure passwords are securely hashed before storing them in the database.
2. **User Login:**
   a. Implement a login page where registered users can log in using their email and password.
   b. After logging in, redirect the user to their dashboard.
3. **Dashboard:**
   a. The user dashboard should display a list of available products and the shopping cart summary.
4. **Shopping Cart:**
   a. Allow users to add products to their shopping cart.
   b. Display the cart items with product details (name, price, quantity) and the total price.
   c. Provide options to update the quantity or remove items from the cart.
5. **Checkout:**
   a. Implement a checkout process where users can confirm their orders.
   b. Save the order details in the database and show a confirmation page after checkout.

2. Admin Features:

1. **Admin Login:**
   a. Create an admin login page separate from the user login.
2. **Admin Dashboard:**
   a. The admin dashboard should allow admins to:
      i. Add new products with the following details: name, description, price, and image.
      ii. Edit or delete existing products.
      iii. View a list of all orders placed by users.
3. **Add Product Page:**
   a. Create a form to add products with the following fields:
      i. Product Name
      ii. Description
      iii. Price
      iv. Upload Product Image

3. Database Design:

1. **Users Table:**
   a. Fields: id, username, email, password, role (to differentiate between users and admins).
2. **Products Table:**
   a. Fields: id, name, description, price, image_path.
3. **Cart Table:**
   a. Fields: id, user_id, product_id, quantity.
4. **Orders Table:**
   a. Fields: id, user_id, order_date, total_amount.
5. **Order Items Table:**
   a. Fields: id, order_id, product_id, quantity, price.

4. Technology Requirements:

Use **PHP** for the server-side logic.
Use **MySQL** for the database.
Optional: Use **Bootstrap** or another CSS framework for responsive design.

Submission Guidelines:

      i. Submit github link…

Evaluation Criteria:

Correct implementation of user and admin features.

Proper database design and integration.

Secure user authentication (e.g., hashed passwords).

Functional cart and checkout process.

Clean and responsive user interface.

Code quality and project structure.

Bonus:

Add search and filter functionality for products.

Add categories for products.