

SEN3311: WEB APPLICATION DEVELOPMENT

Group Project

Project Title: Building a Dynamic E-commerce Website

Project Description:

Your task is to design and implement a simple electronic commerce website using HTML, CSS, PHP and MySQL. The website should allow users to browse products based on categories, add products to their shopping carts, update quantities, and proceed to checkout to finalize their purchases.

Project Requirements:

Product Categories:

- Display a list of product categories dynamically retrieved from the database.
- Each category should link to a page displaying products within that category.

Product Display:

- Display products within each category dynamically retrieved from the database.
- Include product name, description, price, and an "Add to Cart" button.

Shopping Cart:

- Allow users to add products to their shopping carts.
- Provide the ability to update the quantity of products in the shopping cart.
- Calculate the total amount of the products in the shopping cart.

Checkout Process:

- Display a summary of items in the shopping cart before checkout.
- Include a checkout button to proceed to the payment process.

Database Integration:

- Establish a connection between PHP and MySQL database.
- Ensure proper data retrieval and modification functionalities.

User Interface:

- Design a visually appealing and user-friendly interface.
- Ensure easy navigation between product categories, individual product pages, and the shopping cart.

Project Deliverables:

- Complete source code of the dynamic e-commerce website.
- Documentation explaining how to use the website and understand the code structure.
- Presentation demonstrating key features and functionalities of the project.

Criteria for Assessment

Functionality (11 marks):

- **Category Display:** Displays product categories dynamically from the database. (2 marks)

- **Product Display:** Displays products within each category dynamically from the database. (3 marks)
- **Add to Cart:** Allows users to add products to the shopping cart. (2 marks)
- **Update Quantity:** Allows users to update the quantity of products in the shopping cart. (1 mark)
- **Compute Total:** Calculates the total amount of the products in the shopping cart. (3 marks)

User Interface (4 marks):

- **Design and Layout:** Presents a visually appealing and user-friendly interface. (2 marks)
- **Navigation:** Provides easy navigation between product categories, individual product pages, and the shopping cart. (2 marks)

Documentation and Presentation (5 marks):

Presentation: Demonstrates the project in front of the class, explaining key features and functionalities. (5 marks)