Project Proposal OOP

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Project: E-Commerce Store

Department: BS-SE sem-2(section 2)

E-Commerce Store

Introduction:

This project aims to create an e-commerce store using C++, where users can buy products.

Project Overview:

Our e-commerce store will have features like adding products, displaying products, searching for products, and admin options for managing products.

Technologies and Libraries:

We'll use C++ along with some helpful libraries like

- **Iostream**
  For input and output data in program
- **cctype**
  For checking a number like is-digit etc.
- **Fstream**
  For file handling of saving the record of products and user
- **Iomainip**
  For structure of program like spacing by setw etc.
- **String & sstream**
  For deal with string and its functionality.

We'll also use a code editor for our project that is *VS-CODE*

Functionalities:

For Users:

- Users can browse and display all available products.
- Users can view their shopping cart, which displays the products they've added for purchase.

- Users can view their shopping records, showing their past purchases and total expenditures.
- Users can search for products they're interested in by name, category, or other attributes.
- Users can add products to their shopping cart for purchase.
- Users can proceed to checkout to generate a bill for their purchases.

For Admins:

- Admins have access to a dashboard where they can view and manage all products available in the store.
- Admins can add new products to the store, providing details such as name, price, and description.
- Admins can delete existing products that are no longer available or relevant.
- Admins can edit product details such as price, description, or availability.
- Admins can view records of user activities, including purchases and shopping history.
- Admins can view records of all products sold and the corresponding total payments received.

Data Management:

- All user data, including shopping cart contents, shopping records, and authentication details, will be securely stored using file handling techniques.
- Product data, including details such as name, price, and availability, will also be stored using file handling techniques.
- Security measures will be implemented to protect user authentication information and ensure data integrity.

Project Implementation:

- We'll design the project in a way that's easy to understand and expand upon.
- Important parts of the project include handling user data, managing products, and ensuring everything runs smoothly.
- We'll use simple methods like searching and storing data effectively.
- We'll break down the project into manageable parts and work on them step by step.