Online Cosmetic Shopping System

This project report details the development of an online cosmetic cosmetic shopping system, designed to provide users with a user-user-friendly and efficient platform for purchasing cosmetics online. online.

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Project Overview

The Online Cosmetic Shopping System aims to digitize the traditional cosmetic shopping experience, providing users with an providing users with an online platform to browse, select, and purchase cosmetics.

Objectives

1 **User-Friendly**

To create a user-friendly online shopping platform for cosmetics.

2 **SQLPlus Integration**

To integrate with an SQLPlus database for efficient efficient data management.

3 **Seamless Experience**

To provide a seamless shopping experience from from browsing products to completing purchases. purchases.

4 **Data Security**

To ensure data security and integrity.

System Architecture

Presentation Layer

Java Swing for GUI

Business Logic Layer

Java for application logic

Data Layer

SQLPlus for database management management

Functional Requirements

1 User Registration

Users can register and log in to their accounts.

2 Product Browsing

Users can browse products by categories.

3 Shopping Cart

Users can add products to a shopping cart.

4 Checkout

Users can view their cart and proceed to checkout.
checkout.

Non-Functional Requirements

Usability

The system should be easy to use with a clean and and intuitive interface.

Performance

The system should handle multiple users simultaneously without performance degradation.

Security

User data should be protected against unauthorized unauthorized access.

Scalability

The system should be scalable to handle an increasing increasing number of users and transactions.

Database Design

Users	Stores user information (id, username, password, email). email).
Products	Stores product details (id, name, category, price, description, stock).
Orders	Stores order information (id, user_id, date, total_amount).
OrderItems	Stores details of products in each order (order_id, product_id, quantity, price).

User Interface Design

1 Login Screen

For user authentication.

2 Registration Screen

For new user registration.

3 Main Menu

Provides navigation to different different categories and user user account options.

4 Product Listing

Displays products in the selected category.

5 Product Details

Shows detailed information information about a selected selected product.

6 Shopping Cart

Displays items added to the the cart.

7 Checkout

Finalizes the purchase and generates an order summary.