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**Project Overview:**

**Title: Clothing Shop Management System**

The Clothing Shop Management System is designed to control the operations of a clothing store. It provides functionalities to manage inventory, sales, customer information.

**Important features:**

**Inventory Management:** Manage stock, add new products, and update existing ones.

**Sales Management:** Process sales transactions, generate bills.

**Customer Management**: Maintain customer information, purchase history.

**User Authentication:** Secure access to the system with login details.

**Classes:**

**Product class:**

Represents individual products available in the store.

Consist of attributes like productName , ID , Price and Quantity and methods to add product , remove product and update product price.

**Customer class:**

Represents customers who visit the store.

Consist of attributes customerName ,customerID and contact and methods to update customer details.

**Inventory class:**

Manages the inventory of products in the store.

Consist of attributes like list of products and methods to add , remove , update products and get product details.

**Sales class:**

Manages sales data and statistics.

Consist of list of transactions and methods to generate bills and calculate revenue.

**Transaction class:**

Handles transactions made by customers.

Consist of attributes like transaction date , id, amount , list of products etc and methods to add transactions , calculate total amount etc.