**Project Report: Billing System for a Departmental Store**

**Introduction**

The Billing System is a Java-based application designed to automate the ordering and billing processes of a departmental store. The system serves as an interface for both administrators and customers to manage product records, bill products, generate invoices, and view available products.

**Objectives**

* Automate the billing process.
* Allow administrators to manage product records.
* Provide customers with an interface to bill products, view invoices, and manage their cart.

**Features**

1. **Administrator Mode**
   * Create new product records.
   * Modify existing product details.
   * Display all available products.
2. **Customer Mode**
   * Bill products.
   * Generate invoices.
   * Display available products.
   * Manage the customer's cart.

**System Requirements**

* Java Development Kit (JDK)
* Text Editor or IDE (Eclipse, IntelliJ IDEA, etc.)

**Implementation**

**Data Structures**

* **Item**: Holds the details of a product.
* **Customer**: Holds the details of a customer's product selection.
* **Temporary**: Temporary storage for modifying records.

**Functions**

* **create()**: Creates new product records.
* **bill()**: Bills a product for the customer.
* **invoice()**: Generates an invoice for the customer.
* **display()**: Displays all available products.
* **mdisplay()**: Displays products in the customer's cart.
* **mdelete()**: Deletes items from the customer's cart.
* **edit()**: Modifies existing product details.

**Sample Usage**

* **Administrator Mode**
  1. Create new product records.
  2. Modify existing product details.
  3. Display available products.
* **Customer Mode**
  1. Bill products.
  2. Generate invoices.
  3. Display available products.
  4. Manage the customer's cart.

**Limitations**

The system is limited to managing a single store's inventory.

The system uses text files to store data, which may not be suitable for large-scale applications.

**Conclusion**

The Billing System provides a simple and effective solution for managing a departmental store's billing and inventory processes. It serves as a foundation that can be expanded to include more advanced features and integrations with other systems.

**Future Enhancements**

Integration with a database for better data management.

Addition of user authentication and roles.

Implementation of a graphical user interface (GUI) for better user experience.