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Data Science

Supermarket management System

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Project Guide
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Contents:

1. Introduction:

Problem Identified:

- Time-consuming and labor-intensive, as staff must visit customers monthly for bill distribution and payment collection.
- Maintenance of bills is done manually through hard copies, leading to a tedious and lengthy process.

Solution Proposed:

- This project system eliminates the need to maintain paper electricity bills as all electricity bill records are managed electronically.
- The administrator doesn't have to do the hard work as this system easily stores users manually.

2. Objectives:

- Ensure real-time operations to reduce manual processes and improve efficiency
- To provide customers with a bill summarizing their purchased items and the total amount.
- Create a user-friendly interface for eas of use by staff and customers.
- Providing a search option to minimize the effort of searching through a long list of products.

4. Feature / Functionality:

- Inventory management.
- Customer management.
- User authentication.
- Searching and Filtering.
- Sales and Billing.

5. Outcome of Project:

- The system can calculate total bills accurately based on item prices and quantities
- The system centralizes product and sales data, making it easy to access and manage.
- The system streamlines inventory updates by recording stock levels after each transaction.
- Proper authentication mechanisms can be implemented for user access control.

6. Technology Stack:

- **Front-End:-** Java Swing is used for creating the user interface.
- **Back-End:-** MySQL 8.0 CE is used for database management.
- **Java:** The core programming language used to handle business logic, data processing, and managing user requests.
- **JDBC (Java Database Connectivity):** To connect and interact with the SQL database for operations like storing and retrieving billing data.

Thank You!