\*\*Inventory Management System\*\*

This Inventory Management System is a GUI desktop application developed in Java with MySQL as its database backend. Swing was used for GUI design, and JDBC API manages database connectivity.

\*\*Key Features:\*\*

- Manage inventory and stock of products.

- Handle sales and purchase transactions.

- Supports Administrator and Employee user types.

- Automated stock handling with each transaction.

- Search feature for data accessibility.

- Quick sales processing with product code input.

- User activity time log.

\*\*How to Download and Run:\*\*

1. Minimum Requirements: JDK or JRE version 16.

2. Download [InventoryManagement.zip](InventoryManagement.zip) and unzip.

3. Import [SQL dump file](SQL/InventoryDB.sql) using MySQL Workbench.

4. Go to InventoryManagementSystem -> dist -> lib -> DBCredentials.xml

5. Update the username and password to your MySQL Database username and Password. By default, it is set to username: root & password:root. In case your username is root and password is 987, please change password to 987

6. Go to InventoryManagementSystem -> dist and run the InventoryManagement.jar file

5. Default credentials: Username: root, Password: root. For employees: Username: emp1, Password: emp1.

\*\*Sections in the Application:\*\*

- Login Page: Validates user credentials.

- Dashboard/Welcome Page: Landing page post-login.

- Products: Add, edit, and delete products.

- Current Stock: Check item availability.

- Suppliers: Manage supplier records.

- Customers: Add or update customer information.

- Sales: Sell products and manage sales transactions.

- Purchase: View purchase logs and enter new transactions.

- Users: Exclusive to Administrators for user management.

\*\*Technologies Used:\*\*

- JetBrains IntelliJ IDE and Apache NetBeans IDE for development.

- MySQL Server and Workbench for database management.

- JDK 16 for Java development.

\*\*Source Code Organization:\*\*

- Data Access Object (DAO): Interacts with the database.

- Data Transfer Object (DTO): Transfers data between layers.

- Database: Manages database connections and credentials.

- User Interface (UI): Contains GUI classes.

\*\*Project Technologies:\*\*

- JetBrains IntelliJ IDE, Apache NetBeans IDE, MySQL Server and Workbench, JDK 16.

This Inventory Management System offers a comprehensive solution for small to mid-sized stores to efficiently manage their inventory, transactions, and user roles.