Roll No(s)   :   22PW09 , 22PW12

Name of the Student(s)   :   Bhavya P R , Dharshini A S

Package Title   :   OptiStock

Date & Time of Reporting   :   24-10-2024

Faculty Name   :   Dr. M Sasikumar

Technology and Tools used   :   Java AWT & Swing for front end

                                           MySQL for backend

Description (Max. 250 words)   :

               OptiStock is a comprehensive Java-based inventory management application, designed to streamline and optimize inventory processes for businesses. Developed using Java Swing and AWT for the frontend and MySQL for the backend, the application provides a user-friendly graphical interface for efficient management of inventory data. The app features a secure login page, with user authentication ensuring that only authorized personnel can access the system.

Upon logging in, The **Product Details** module allows users to add and view product information This ensures accurate tracking and control over inventory items. The **Customer Details** module facilitates customer management, where user information, contact details, and purchase history can be stored and retrieved. OptiStock also provides real-time visibility of **Current Stock**, showing a clear overview of all items available in the inventory. The **Purchase Info** module helps in tracking purchase orders, including supplier details, date of purchase, order quantities, and related costs. This module contributes to maintaining precise inventory records and ensuring that stock levels are up to date.

The application's intuitive interface and organized modules make it easy to use, while the backend MySQL database ensures data integrity and security. OptiStock is designed for small to medium-sized businesses looking to improve their inventory management efficiency and gain greater control over product and customer data.

Problem Definition (5)	Design & Implementation (10)	I/O Validation (5)	Total Marks (20)	Faculty Sign