

Vasavi College of Engineering  
DBMS

Assignment 3

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IT-C

Car Dealership Management  
System

# Car Dealership Management System

## **Abstract**

This project presents the design and implementation of a Comprehensive Management System for a Car Dealership, developed using Java Swing and AWT for the front-end and SQLPlus with JDBC for the back-end. The system aims to streamline all major activities in a car dealership by integrating them into a centralized desktop application.

The application supports modules for inventory management, sales and purchase tracking, customer and employee records, service scheduling, and financial reporting. A user-friendly interface developed with Java Swing and AWT ensures ease of use, while robust data handling and storage are managed through SQLPlus via JDBC, enabling efficient and secure data transactions.

Key features include real-time data updates, role-based access control, and intuitive navigation across different operations within the dealership. By automating manual processes and providing detailed insights through data-driven dashboards, the system enhances operational efficiency, minimizes errors, and supports better decision-making.

This solution is ideal for medium to large-scale dealerships looking to modernize their workflow and improve customer service through technology-driven management.

## **Technology Stack:**

**Front End:** Java Swing and AWT

**Back End:** Oracle SQLPlus

**Connection:** JDBC

## **Modules Overview:**

**MainFrame:** Landing Page for users

**CustomerLoginPage:** Login Page for Customers

**EmployeeLoginPage:** Login Page for Customers

**CustomerDash:** Dashboard for Customers

**CustomerVisitSchedule:** Page to schedule dealership Visit

**CustomerBookServicng:** Page to book services by customer for the car

**EmployeeRecordSale:** Page for customers to record sale of cars

**EmployeeAssignServiceWorkers:** Page for Employee to give tasks to other workers

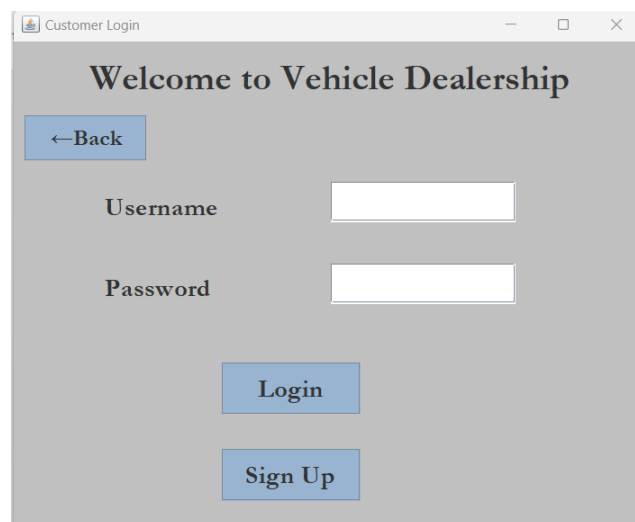
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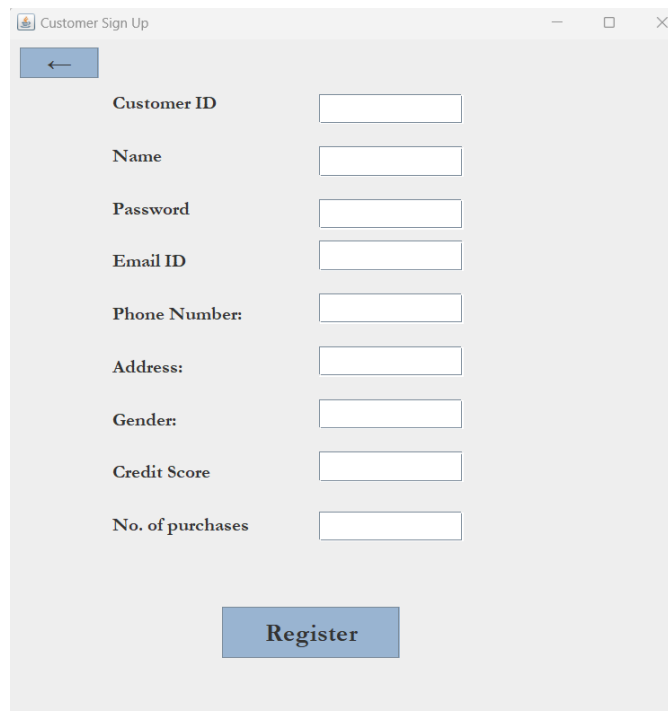
# Welcome to Vehicle Dealership

Employee

Customer



A screenshot of a web browser window titled "Customer Login". The window has a grey background and a white title bar. The main heading is "Welcome to Vehicle Dealership". Below the heading is a blue button with a left arrow and the text "Back". There are two input fields: "Username" and "Password". Below the "Password" field is a blue button labeled "Login". At the bottom is a blue button labeled "Sign Up".



A screenshot of a web browser window titled "Customer Sign Up". The window has a grey background and a white title bar. The main heading is "Welcome to Vehicle Dealership". Below the heading is a blue button with a left arrow. There are eight input fields: "Customer ID", "Name", "Password", "Email ID", "Phone Number:", "Address:", "Gender:", "Credit Score", and "No. of purchases". At the bottom is a blue button labeled "Register".

Customer Dash

Book a Visit

Book Servicing

VIN	Vehicle Name	Purchase Date
401	Tata Nexon-X	2025-01-10
404	Hyundai i20 Sport	2025-03-26

←Back

Schedule Visit

Cancel Visit

Scheduled Visits

Dealership	Date of Visit
501	2025-02-01 00:00:00
502	2025-06-09 00:00:00

Choose Dealership:

Reddy Cars

Choose Visiting Date:

11-Apr-2025

Book Visit

Choose Dealership:

Reddy Cars

Choose Visiting Date:

11-Apr-2025

Cancel Visit

Book Service

Cancel Service

Service Type	Booking Date
Oil Change	2024-02-03
Battery Check	2025-10-02

Choose Service Type:

Oil Change

Choose Service Date:

18-Apr-2025

Book Visit

Choose Service Type:

Oil Change

Choose Servicing Date:

18-Apr-2025

Cancel Visit

Employee Login

Welcome to Vehicle Dealership

←Back

Username

Password

Login

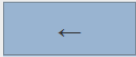
Employee Dash

Record Sale

Assign Service Workers

VIN	Sale Date
401	2025-03-26 00:00:00
404	2025-04-03 00:00:00
404	2025-04-14 00:00:00
405	2025-04-23 00:00:00

Employee ID	Service Type
301	Oil Change
301	Tire Replace
301	Battery Check
302	Tire Replace
302	Battery Check



VIN

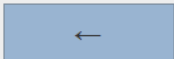
703

Choose Visiting Date:

19-Apr-2025



Record



Employee ID:

303

Service ID:

701



Assign