

Project Design Phase-II

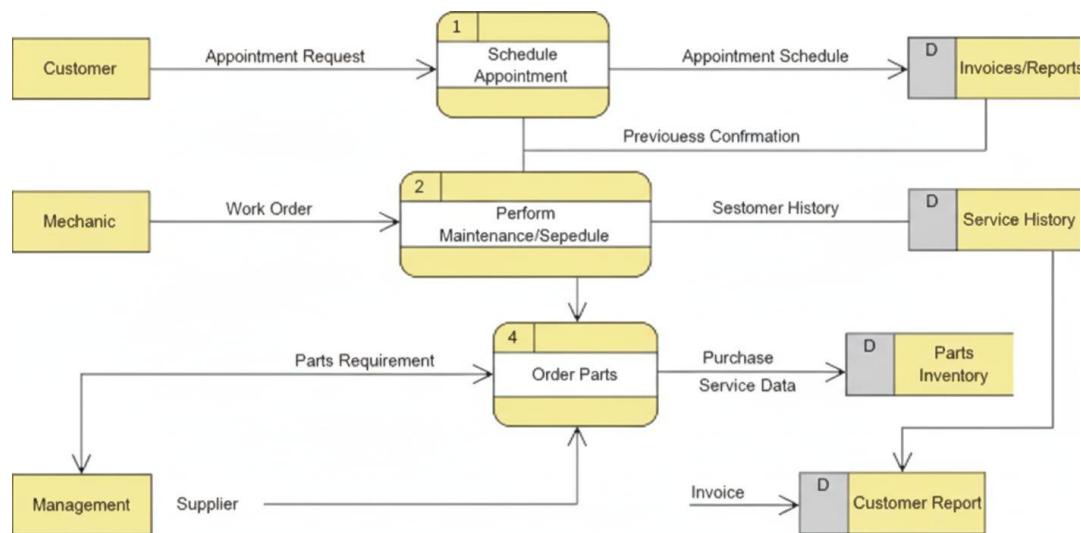
Data Flow Diagram & User Stories

Date	2 November 2025
Team ID	NM2025TMID05656
Project Name	Garage Management System
Maximum Marks	4 marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

In the Garage Management System, Data Flow Diagrams (DFDs) illustrate how a customer's service request is processed into a complete, billed job. The DFD shows the interaction between the Customer, the Mechanic, the system, and data stores (Vehicle Records, Parts Inventory) to manage bookings, track repair progress, record parts usage, and generate a final invoice. The system's core function is to maintain a seamless flow from initial request to service completion and payment.



User Stories:

User stories define what different users need from the system in simple, goal-focused language. In this project, they help ensure the system efficiently manages the service workflow, inventory, and customer communication.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer	Vehicle Booking	USN-1	As a customer, I want to book a service appointment for my vehicle online.	The system should allow users to select service type, date, and time and confirm the booking.	High	Sprint-1
Receptionist	Customer & Vehicle Management	USN-2	As a receptionist, I want to register new customers and record their vehicle details.	The system should allow adding, updating, and viewing customer and vehicle records.	High	Sprint-1
Administrator	User & System Management	USN-3	As an admin, I want to manage user accounts and control access to system modules.	The admin should be able to add, edit, or deactivate users and assign roles.	High	Sprint-1

Inventory Manager	Spare Parts Management	USN-4	As an inventory manager, I want to track and update spare parts stock.	The system should update stock levels automatically after each service and notify when parts run low.	Medium	Sprint-2
Customer	Payment & Invoice	USN-5	As a customer, I want to view and pay my service invoice online.	The system should generate invoices and support online or offline payment confirmation.	Medium	Sprint-3
Admin/System	Report Generation	USN-6	As an admin, I want to generate daily and monthly reports for services and revenue.	The system should generate accurate and exportable reports (PDF/Excel).	Low	Sprint-3