Project Design Phase-II

Data Flow Diagram & User Stories
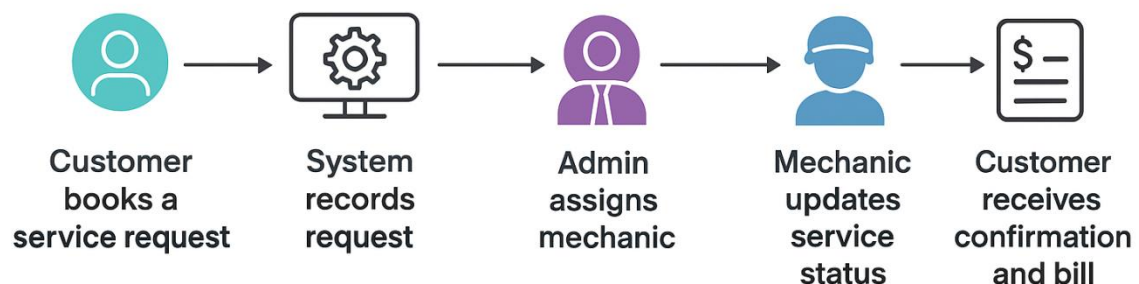
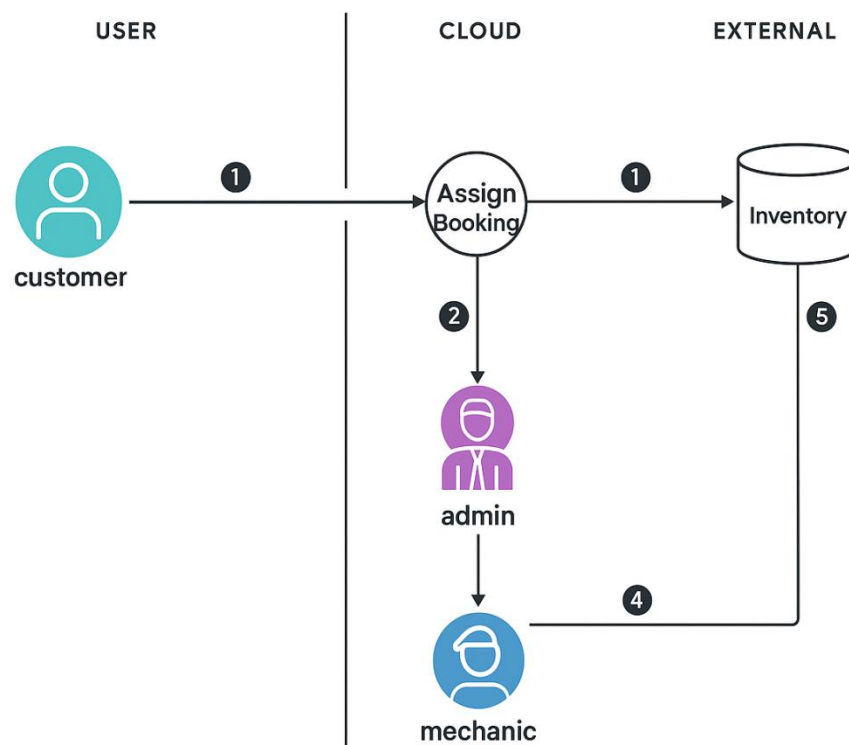| Date	26 October 2025
Team ID	NM2025TMID03420
Project Name	Garage Management System
Maximum Marks	4 Marks

Data Flow Diagrams:

A **Data Flow Diagram (DFD)** provides a clear and structured visualization of data movement within the Garage Management System. It shows how customer and service information is collected, processed, stored, and updated across the system. The DFD ensures smooth workflow and helps identify key interactions between customers, service advisors, mechanics, and the admin.

In the project **"Garage Management System"**, the DFD illustrates how data flows between users and system modules like service booking, inventory, billing, and reporting. The system handles tasks such as booking a service, assigning a mechanic, generating bills, and updating inventory once the service is completed.

Example:

Customer books a service request → System records request → Admin assigns mechanic → Mechanic updates service status → Customer receives confirmation and bill

User Stories

User stories describe the needs and goals of different system users, focusing on specific features and outcomes. In this project, they ensure that every garage-related operation—from booking to billing—is handled accurately and efficiently.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Customer	Service Booking	USN-1	As a customer, I want to book a service appointment online so that I can schedule maintenanc	The system should allow customers to choose service type, date, and time, and confirm booking successfully.	High	Sprint-1

			e easily.			
Admin	Manage Users & Services	USN-2	As an admin, I want to manage customer profiles and service records to maintain organized data.	The admin can view, add, edit, or delete users and service details without errors.	High	Sprint-1
Mechanic	Service Status Update	USN-3	As a mechanic, I want to update the service status after completing assigned tasks.	The system should record the service completion and notify the customer.	Medium	Sprint-2
Inventory Manager	Parts Management	USN-4	As an inventory manager, I want to track and update spare parts availability.	The system updates inventory levels automatically after service completion.	Medium	Sprint-2
Accountant	Billing & Reports	USN-5	As an accountant, I want to generate invoices and monthly reports to manage finances.	The system should generate accurate invoices and summary reports on demand.	Medium	Sprint-3