

DATA FLOW AND USER STORIES

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Team ID	NM2025TMID02904
Project Name	Garage Management System
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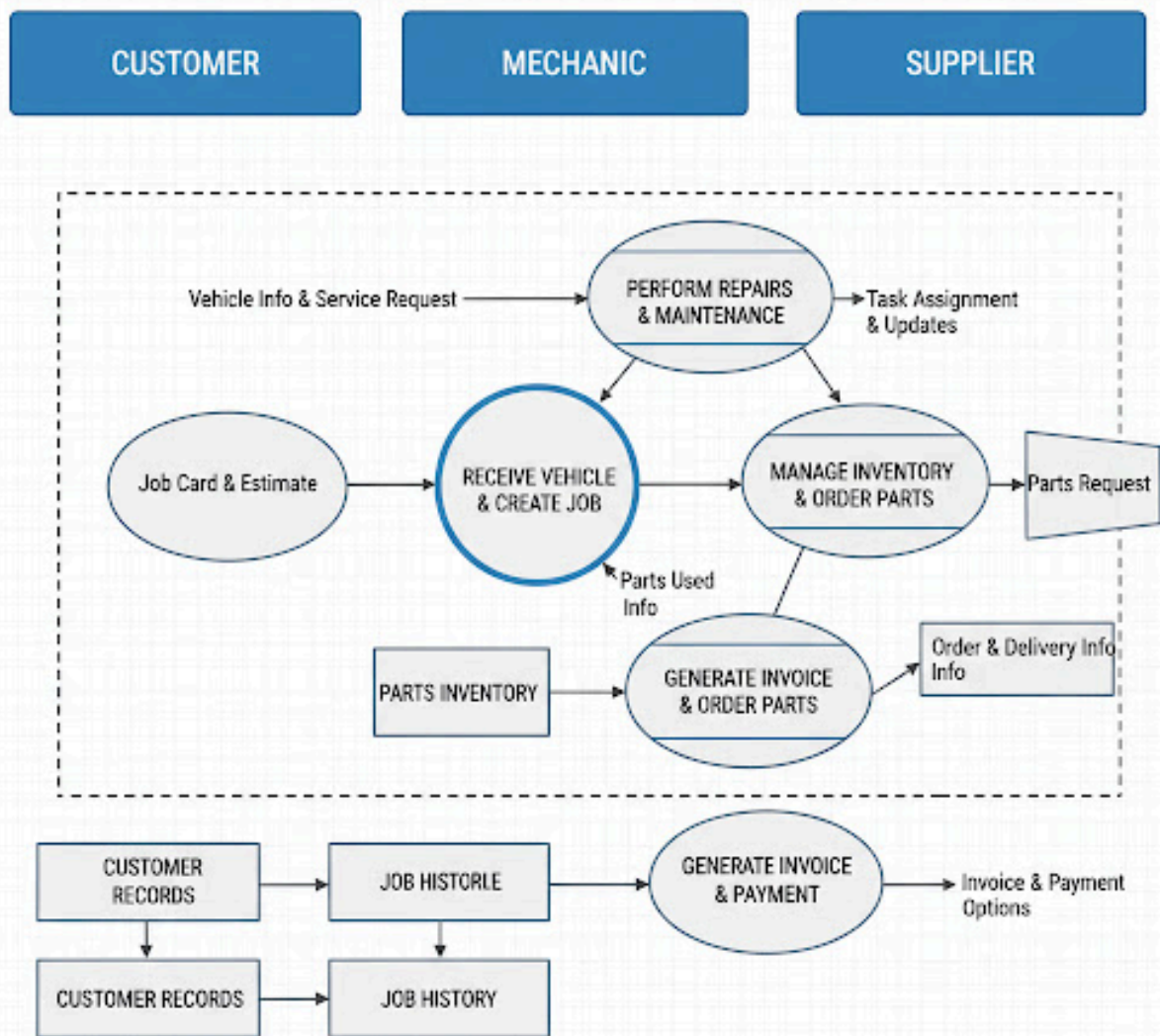
1.Data Flow:

The Data Flow in the Garage Management System represents the movement of information between different components such as customers, mechanics, administrators, and the system database. It outlines how data is collected, processed, and stored as users interact with the system.

When a customer books a service or submits a request, the data is captured by the system and stored in the central database. The administrator can access this data to assign mechanics, manage service schedules, and monitor progress. Mechanics update the service status, which is again stored in the database and reflected back to the customer in real-time.

This smooth and structured data flow ensures that all operations—such as job tracking, billing, and customer communication—are efficiently automated. It enhances transparency, reduces manual errors, and ensures the entire garage workflow runs seamlessly from booking to delivery.

GARAGE MANAGEMENT SYSTEM - DATA FLOW DIAGRAM



2.User Stories

The User Stories in the Garage Management System describe how different types of users interact with the application to achieve specific goals. A user story defines a feature or function from the end-user's perspective and helps developers understand what the system should deliver to satisfy user needs. Each story follows a simple format – "As a [user], I want [action] so that [benefit]." This approach ensures that the system is designed with a clear understanding of the user's expectations and priorities.

In the Garage Management System, user stories are written for three main roles: Customer, Mechanic, and Administrator. The customer stories focus on booking vehicle services, tracking repair progress, and receiving updates or bills. The mechanic stories describe how service staff can view assigned jobs, update their status, and manage tasks efficiently. The administrator stories include managing users, monitoring operations, and generating service or billing reports.

User Role	User Story	Description / Acceptance Criteria
Customer	As a customer, I want to register and log in so that I can access my vehicle details and book services.	The system should allow customers to create an account, log in securely, and view their registered vehicles.
Customer	As a customer, I want to book a vehicle service and choose a convenient time slot.	The system should display available service slots and confirm booking details through a notification or message.
Mechanic	As a mechanic, I want to view assigned service jobs so that I can update the status of each job.	The system should display all jobs assigned to the mechanic and allow status updates (e.g., Pending, In Progress, Completed).
Administrator	As an admin, I want to manage users, vehicles, and services so that I can maintain proper records.	The admin should be able to add, edit, or delete users, update vehicle details, and manage service records efficiently.