

# Project Planning Phase

## Project Planning(Product Backlog, Sprint Planning, Stories, Story points)

Date	27 June 2025
Team ID	LTVIP2025TMID29772
Project Name	GARAGE MANAGEMENT SYSTEM

### 1. Project Overview

**Objective:**

Develop a web-based Garage Management System to streamline customer bookings, manage vehicle data, handle invoices, monitor inventory, and provide admin dashboards.

**Target Users:**

- Admin (Garage owner)
- Mechanic
- Customer

**Technology Stack (Suggested):**

- **Frontend:** HTML, CSS, JS (or React)
- **Backend:** Python (Flask or Django) / Node.js
- **Database:** MySQL / PostgreSQL / MongoDB
- **Deployment:** Heroku / Render / AWS

### 2. Core Modules (Epics):

Epic	Description
User Management	Signup/Login, Role-based access
Vehicle Management	Add/Edit vehicles for each customer
Service Booking	Book service, assign mechanic, update status
Invoice & Payment	Generate invoice, mark payment
Inventory Management	Spare parts, availability tracking

### 3. User Stories by Sprint

Sprint	Focus	Story Points
Sprint 1	User & Vehicle Management	8 SP
Sprint 2	Booking & Job Status Flow	10 SP
Sprint 3	Invoice + Inventory System	10 SP
Sprint 4	Admin Dashboard & Alerts	10 SP
Sprint 5	Testing + Deployment	11 SP

### 4. Story Point Estimation (Effort Guide):

- 1 SP – Very Easy (UI Form)
- 2 SP – Easy (CRUD Operation)
- 3 SP – Moderate (DB + Logic)
- 5 SP – Complex (Integrations)

### 5. Velocity & Timeline:

- Total SP: 49
- Team Velocity: 10 SP/Sprint
- Total Duration: 5 Weeks

### 6. Weekly Milestones:

- Week 1 – Auth + Vehicle Modules Ready
- Week 2 – Booking Flow Completed
- Week 3 – Billing + Inventory Added
- Week 4 – Admin Tools + Notifications Done
- Week 5 – App Tested + Deployed Online

### 7. Final Outcomes:

- Web App with Login, Vehicle Mgmt, Booking
- Role-based UI (Admin, Mechanic, Customer)
- Invoicing, Spare Parts Mgmt
- Dashboard with Reports
- Hosted Live App (Heroku/Render)