Project Planning Phase Planning Logic

Epics Overview:

- 1. User Management
- 2. Vehicle Management
- 3. Service Booking & Tracking
- 4. Billing & Payments
- 5. Inventory Management
- 6. Admin Dashboard
- 7. Deployment & Testing

Breakdown into User Stories and Story Points:

Sprint 1: User & Vehicle Management (5 Days)

Epic: User Management

- User Registration 3 SP
- User Login/Logout 2 SP
- Role-based Access (Admin, Mechanic, Customer) 3 SP

Epic: Vehicle Management

- Add Vehicle Details 2 SP
- Edit/Delete Vehicle 1 SP

Total: 11 SP

Sprint 2: Service Booking System (5 Days)

Epic: Service Booking & Tracking

- Book a Service 3 SP
- View Booking Status 2 SP
- Assign Mechanic 2 SP
- Update Job Status (In Progress, Completed) 3 SP

Total: 10 SP

Sprint 3: Billing & Payments + Inventory (5 Days)

Epic: Billing & Payments

- Generate Invoice 3 SP
- Apply Discounts/GST 2 SP
- Mark Payment Received − 2 SP

Epic: Inventory Management

- Add/Update Spare Parts 2 SP
- Track Part Availability 3 SP

Total: 12 SP

Sprint 4: Admin Dashboard + Reports (5 Days)

Epic: Admin Dashboard

- View All Bookings 2 SP
- Daily Revenue Report 3 SP
- Mechanic Performance Report 2 SP

Epic: Notifications

- Email Confirmation for Booking 1 SP
- Reminder Before Service Date 2 SP

Total: 10 SP

Sprint 5: Testing & Deployment (5 Days)

Epic: Testing & Deployment

• Unit Testing – 3 SP

- Integration Testing 3 SP
- UI Testing 2 SP
- Deploy to Cloud (Flask/Node + HTML/CSS) 3 SP

Total: 11 SP

Velocity & Timeline

• Average Velocity: ~11-12 SP per Sprint

• Number of Sprints: 5

• Total Estimated Duration: 5 Weeks (25 Working Days)

Prioritize Minimum Viable Product (MVP)

We isolate what's needed to launch:

- User registration & vehicle input
- Booking flow
- Invoice generation
- Deployment

MVP helps test the product early, then add enhancements like:

- Feedback system
- Advanced analytics
- Mobile UI

Planning Logic

Phase	Goal	Reason
1 Epics → Stories	Functional breakdown	Clarity & trackability
2 Story Points	Effort estimation	Relative sizing, flexibility
3 Sprint Planning	Organize by priority	Maximize value early
4 Velocity Tracking	Predict capacity	Plan realistically
5 MVP Focus	Early launch	Market validation

Outcomes

- Fully working Garage Management System Web App
- Role-based login
- Vehicle and service tracking
- Invoice and inventory management
- Admin dashboard with insights
- Hosted live on a platform (e.g., Heroku, Render, or AWS)