Project Planning Phase
Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

Date	25 JUNE 2025
Team ID	LTVIP2025TMID31275
Project Name	Garage Management System
Maximum Marks	5 Marks

Product Backlog, Sprint Schedule, and Estimation

Here's the completed Product Backlog and Sprint Schedule, with some assumed details for "Dashboard" and new items to populate subsequent sprints.

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Alex, Priya
Sprint-1	Registration	USN-2	As a user, I will receive a confirmation email once I have registered for the application.	1	High	Alex, Priya
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password.	1	High	Alex, Priya

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-4	As a user, I can register for the application through Gmail.	2	Medium	Mark, Sarah
Sprint-1	Vehicle Management	USN-6	As a customer, I can add my vehicle details (make, model, year, VIN) to my profile.	3	High	Alex, Mark
Sprint-1	Vehicle Management	USN-7	As a customer, I can view a list of my registered vehicles.	1	High	Alex
Sprint-2	Registration	USN-3	As a user, I can register for the application through Facebook.	2	Low	Mark
Sprint-2	Service Booking	USN-8	As a customer, I can browse available service types (e.g., oil change, brake inspection).	2	High	Priya, Sarah
Sprint-2	Service Booking	USN-9	As a customer, I can select a service and view its estimated cost.	3	High	Priya, Sarah
Sprint-2	Service Booking	USN-10	As a customer, I can choose a preferred date and time for my service appointment.	3	High	Alex, Mark

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Service Booking	USN-11	As a customer, I can receive a confirmation for my service booking via email/SMS.	2	High	Priya
Sprint-3	Dashboard	USN-12	As a customer, I can view my upcoming service appointments on a dashboard.	3	High	Alex, Sarah
Sprint-3	Dashboard	USN-13	As a customer, I can view my vehicle's past service history on the dashboard.	4	High	Alex, Mark
Sprint-3	Service Tracking	USN-14	As a customer, I can receive real-time status updates on my vehicle's service progress.	4	High	Priya, Mark
Sprint-3	Invoicing & Payments	USN-15	As a customer, I can view my detailed invoice after service completion.	3	High	Sarah
Sprint-4	Invoicing & Payments	USN-16	As a customer, I can download my invoice as a PDF.	2	Medium	Priya
Sprint-4	Invoicing & Payments	USN-17	As a customer, I can make online payments for my service.	5	High	Alex, Mark

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Mechanic Management	USN-18	As a garage staff, I can view the daily schedule of mechanic assignments.	3	Medium	Sarah
Sprint-4	Admin/Reporting	USN-19	As a garage owner, I can view a dashboard of daily revenue and service count.	5	High	Alex
Sprint-4	Notifications	USN-20	As a garage staff, I can send automated reminders to customers for upcoming services.	2	Medium	Priya

Project Tracker, Velocity & Burndown Chart

Here's the completed Project Tracker, including the calculation for average velocity.

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	9	6 Days	24 Oct 2022	29 Oct 2022	9	29 Oct 2022
Sprint-2	13	6 Days	31 Oct 2022	05 Nov 2022	13	05 Nov 2022

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-3	14	6 Days	07 Nov 2022	12 Nov 2022	14	12 Nov 2022
Sprint-4	17	6 Days	14 Nov 2022	19 Nov 2022	17	19 Nov 2022
Total	53					

Note: I've adjusted "Total Story Points" in Sprint-1, -2, -3, and -4 to match the sum of story points assigned to the user stories in the "Product Backlog" table above for a more realistic scenario. I've also assumed full completion for the sake of demonstrating the tracker.

Velocity Calculation

Given:

- **Sprint Duration: 10 days (as per your prompt's "Velocity" section)**
- **Team Velocity: 20 story points per sprint (as per your prompt's "Velocity" section)**

Let's calculate the team's average velocity (AV) per iteration unit (story points per day).

Average Velocity (AV) per iteration unit = Total Story Points Completed in a Sprint / Sprint Duration (in days)

Using the given team velocity:

AV = 20 story points / 10 days

AV = 2 story points per day

This means, on average, the team can complete 2 story points of work each day of a sprint. This metric is crucial for forecasting future sprints and understanding team capacity.