

## Project Planning Phase

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

Date	3 November 2023
Team ID	Team-592063
Project Name	AI enabled car parking using open CV
Maximum Marks	8 Marks

#### Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create product backlog and sprint schedule

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	Sprint-1
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Sprint-1
Sprint-2		USN-3	As a user, I can register for the application through Facebook	2	Low	Sprint-2
Sprint-1		USN-4	As a user, I can register for the application through Gmail	2	Medium	Sprint-1
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Sprint-1
Sprint-2	Requesting/conferer	USN-6	As a conferrer I can request vacant parking space to park my car	2	High	Sprint-2
Sprint-2	profile	USN-7	As a user I can see registration page, login page and chatbot for I can check availability of parking spots in real time	2	Medium	Sprint-2
Sprint-3	Help desk/ user support	USN-8	As an customer care executive I can solve the queries of the users	1	High	Sprint-3
Sprint-4	Registration	USN-9	As an administrant I can view the database of the registered users	2	Medium	Sprint-4

Sprint-4	Dash board	USN-10	As an administrant I can view how many members requested for what trouble occurs in parking a vehicle	1	Low	Sprint-4
Sprint-4	User interface	USN-11	In addition to the customer care executive I can solve all the queries of the customer as well as the conferrer	2	Medium	Sprint-4

#### Project Tracker, Velocity & Burndown Chart: (4 Marks)

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	25	6 Days	27 Oct 2023	1 Nov2023	25	29 Nov 2022
Sprint-2	25	6 Days	2 Oct 2023	7Nov 2023	25	7 Nov 2023
Sprint-3	25	6 Days	9 Nov 2023	14Nov 2023	25	14 Nov 2023
Sprint-4	25	6 Days	16 Nov 2023	21Nov 2023	25	

#### Velocity:

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{\textit{sprint duration}}{\textit{velocity}} = \frac{20}{10} = 2$$

**Burndown Chart:**

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>

<https://www.atlassian.com/agile/tutorials/burndown-charts>

**Reference:**

<https://www.atlassian.com/agile/project-management>

<https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software>

<https://www.atlassian.com/agile/tutorials/epics>

<https://www.atlassian.com/agile/tutorials/sprints>

<https://www.atlassian.com/agile/project-management/estimation>

<https://www.atlassian.com/agile/tutorials/burndown-charts>