

## Project Planning Phase

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

Date	18 October 2022
Project Name	Smart connectivity for road safety using IOT
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	Login	USN-1	As a user, signing in into the app is essential for the authorities. Usage of separate app for individual log in is necessary.	1	Low	Kishore Kumar, Bala, Nithiyasree, Jeremiah Paul
	Dashboard	USN-2	A home page will be available (user login) which helps to enter to next page	1	Medium	Kishore Kumar, Bala, Nithiyasree, Jeremiah Paul
Sprint-2	Help Screen	USN-3	After the Home page,it will direct you the next page which contains 3 options.	2	Medium	Kishore Kumar, Bala, Nithiyasree, Jeremiah Paul
Sprint-3	1 st option	USN-4	User can approach the vehicle parked instantly	2	Medium	Kishore Kumar, Bala, Nithiyasree, Jeremiah Paul
Sprint-4	2 <sup>nd</sup> option & 3 rd option	USN-5	User can send Alert message or deploy sound to move the car. (fine can also be given)	2	High	Kishore Kumar, Bala, Nithiyasree, Jeremiah Paul

### 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	20	6 Days	24 Oct 2022	29 Oct 2022	10	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	-	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	-	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	-	19 Nov 2022

#### Velocity:

We have a 6-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)

$$AV = \frac{\text{Sprint duration}}{\text{Velocity}} = \frac{6}{20} = 3.33$$

**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.