

## Project Planning Phase

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

Date	27 October2022
Team ID	PNT2022TMID23481
Project Name	Signs with Smart Connectivity for Better Road Safety
Maximum Marks	8 Marks

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

the below template to create product backlog and sprint scheme

Sprint	Functional Requirement (Epic)	User Story/Task	Story Points	Priority	Team Members
Sprint-1	Resources Initialization	Create and initialize accounts in various public APIs like OpenWeatherMap API.	1	LOW	Vikram pandiyan N Rajkumar R DINESHKUMAR D Vishak R
Sprint-1	Local Server/Software Run	Write a Python program that outputs results given the inputs like weather and location	1	MEDIUM	Vikram pandiyan N Rajkumar R DINESHKUMAR D Vishak R
Sprint-2	Push the server/software to cloud	Push the code from Sprint1 to cloud so it can be accessed from anywhere	2	MEDIUM	Vikram pandiyan N Rajkumar R DINESHKUMAR D Vishak R

Sprint-3	Hardware initialization	Integrate the hardware to be able to access the cloud functions and provide inputs to the same	2	HIGH	Vikram pandiyan N Rajkumar R DINESHKUMAR D Vishak R
Sprint-4	UI/UX Optimization & Debugging	Optimize all the short comings and provide better user experience	2	LOW	Vikram pandiyan N Rajkumar R DINESHKUMAR D Vishak R

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

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	6Days	24Oct2022	29Oct2022	20	29Oct2022
Sprint-2	20	6Days	31Oct2022	05Nov2022	20	31Oct2022
Sprint-3	20	6Days	07Nov2022	12Nov2022	20	07Nov2022
Sprint-4	20	6Days	14Nov2022	19Nov2022	20	14Nov2022

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

**Velocity:**

Imagine we have a 10-days print 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)

**Burndown Chart:**

