# Project Planning Phase

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

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|---|---|
| Date | 27 October2022 |
| Team ID | PNT2022TMID38841 |
| 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 | Sheikabdullah<br>mubin<br>jasmine rubina<br>kalaiyarasan |
| Sprint-1 | Local Server/Software Run | Write a Python program that outputs results given the inputs like weather and location | 1 | MEDIUM | Sheikabdullah<br>mubin<br>jasmine rubina<br>kalaiyarasan |
| Sprint-2 | Push the server/software to cloud | Push the code from Sprint1 to cloud so it can be accessed from anywhere | 2 | MEDIUM | Sheikabdullah<br>mubin<br>jasmine rubina<br>kalaiyarasan |
| Sprint-3 | Hardware initialization | Integrate the hardware to be able to access the cloud functions and provide inputs to the same | 2 | HIGH | Sheikabdullah<br>mubin<br>jasmine rubina<br>kalaiyarasan |

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|---|---|---|---|---|---|
| Sprint-4 | UI/UX Optimization & Debugging | Optimize all the short comings and provide better user experience | 2 | LOW | Sheikabdullah mubin jasmine rubina kalaiyarasan |

**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 |

**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)

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

**Burndown Chart:**