

Project Planning Phase

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

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| Date | 22 October 2022 |
| Team ID | PNT2022TMID08723 |
| Project Name | Signs with Smart Connectivity for Better Road Safety |
| Maximum Marks | 8 Marks |

Product Backlog, Sprint Schedule, and Estimation

Use the below template to create product backlog and sprint schedule

| 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 Open Weather API. | 1 | LOW | ARUN VIGNESH SABARIVASAN SUDEENDRA |
| Sprint-1 | Local Server/Software Run | Write a Python program that outputs results given the inputs like weather and location. | 1 | MEDIUM | ARUN VIGNESH SABARIVASAN SUDEENDRA |
| Sprint-2 | Push the server/software to cloud | Push the code from Sprint 1 to cloud so it can be accessed from anywhere | 2 | MEDIUM | ARUN VIGNESH SABARIVASAN SUDEENDRA |
| Sprint-3 | Hardware initialization | Integrate the hardware to be able to access the cloud functions and provide inputs to the same. | 2 | HIGH | ARUN VIGNESH SABARIVASAN SUDEENDRA |

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|----------|----------------------------------|---|---|-----|---|
| Sprint-4 | UI / UX Optimization & Debugging | Optimize all the shortcomings and provide better user experience. | 2 | LOW | ARUN VIGNESH SABARIVASAN SUDEENDRA |
|----------|----------------------------------|---|---|-----|---|

Project Tracker, Velocity & Burndown Chart:

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

Velocity:

$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{20}{6} = 3.33$$

Burndown Chart:

Balance Work

