**Project Planning Phase**

**Project Planning Template (Product Backlog, Sprint Planning, Stories, Storypoints)**

|  |  |
| --- | --- |
| Date | 18October 2022 |
| Team ID | PNT2022TMID54276 |
| Project Name | Project – Signs with smart connectivity for better road safety |
| 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 | Resources Initialization | USN-1 | Create and initialize accounts in various public APIs like Open Weather Map API | 1 | Low | Sagili Venkata Pavan Reddy,  K M Yaswanth,  Sharmila M,  Varsha K G |
| Sprint-1 | Local Server/Software run | USN-2 | Write python program that outputs results for given inputs like weather and location And also for the Speed breaker control. | 1 | Medium | Sagili Venkata Pavan Reddy,  K M Yaswanth,  Sharmila M,  Varsha K G |
| Sprint-2 | Push the Server/Software to cloud | USN-3 | Push the Weather part code from Sprint 1 to cloud so it can be accessed from anywhere | 2 | Medium | Sagili Venkata Pavan Reddy,  K M Yaswanth,  Sharmila M,  Varsha K G |
| Sprint-3 | Hardware Initialization | USN-4 | Integrate the hardware to be able to access the cloud functions and provide inputs to the same | 2 | High | Sagili Venkata Pavan Reddy,  K M Yaswanth,  Sharmila M,  Varsha K G |
| Sprint-4 | UI/Ux Optimization and Debugging | USN-5 | Optimize the errors and provide a better user experience | 2 | Low | Sagili Venkata Pavan Reddy,  K M Yaswanth,  Sharmila M,  Varsha K G |

**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 | 20 | 1 Nov 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 20 | 10 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 20 | 15 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 20 | 19 Nov |

**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](https://www.visual-paradigm.com/scrum/what-is-agile-software-development/) methodologies such as [Scrum](https://www.visual-paradigm.com/scrum/scrum-in-3-minutes/). 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.visual-paradigm.com/scrum/scrum-burndown-chart/)

[**https://www.atlassian.com/agile/tutorials/burndown-charts**](https://www.atlassian.com/agile/tutorials/burndown-charts)

**Reference:**

[**https://www.atlassian.com/agile/project-management**](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/how-to-do-scrum-with-jira-software)

[**https://www.atlassian.com/agile/tutorials/epics**](https://www.atlassian.com/agile/tutorials/epics)

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[**https://www.atlassian.com/agile/tutorials/burndown-charts**](https://www.atlassian.com/agile/tutorials/burndown-charts)