**Project Planning Phase**

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

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| --- | --- |
| Date | 18 October 2022 |
| Team ID | PNT2022TMID32971 |
| Project Name | IoT Based safety gadgets for child safety monitoring and notification. |
| 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 | Registration | USN-1 | As a user, I can register for the application by entering my email, password, and confirming my password. | 5 | High | AISHWARYA |
| Sprint-1 | Confirmation Email | USN-2 | As a user, I will receive confirmation email once I have registered for the application. | 5 | High | MEDHA |
| Sprint-1 | Authentication | USN-3 | As a user, I can register for the application through the sensor and mobile app. | 5 | medium | KIRUTHIKA |
| Sprint-1 | Login | USN-4 | As a user, I can register for the application through mobile app and tracking the child. | 5 | High | SRIKA |
| Sprint-1 | Dashboard | USN-5 | As a user, I need to be able to view the function I can perform from password. | 5 | High | MEDHA |
| Sprint-2 | Notification | USN-1 | As a user, I should be able to notify to the parents and guardian in any emergency situations | 10 | High | AISHWARYA |
| Sprint-2 | Store data | USN-2 | As a user, I need to continuously store location data into the database. | 10 | Medium | KIRUTHIKA |
| Sprint-3 | Communication | USN-1,2 | As a user, I should be able to communicate the parents | 7 | Low | SRIKA |
| Sprint-3 | IOT Device-Watson communication | USN-1,3 | The data from IOT device in the IBM clouds | 8 | medium | KIRUTHIKA |
| Sprint-4 | User- web UI | USN-1,4 | The Web UI should get inputs from the user | 7 | High | MEDHA |
| Sprint-4 | geofencing | USN-1,5 | The geofencing of the child based on the geographical coordinates. | 6 | Low | AISHWARYA |

**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 | 29 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 20 | 29 Oct 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 |
|  |  |  |  |  |  |  |
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**Velocity:**

Imagine we have a 10-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)



**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/project-management/estimation**](https://www.atlassian.com/agile/project-management/estimation)

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