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

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	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
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

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)

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

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 methodologies such as Scrum. 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.atlassian.com/agile/tutorials/burndown-charts

Reference:

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/epics

https://www.atlassian.com/agile/tutorials/sprints

https://www.atlassian.com/agile/project-management/estimation

https://www.atlassian.com/agile/tutorials/burndown-charts