Project Planning Phase

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

Date	31 October 2022
Team ID	PNT2022TMID14258
Project Name	IOT Based Safety Gadget for Child Safety Monitoring and Notification
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	User signup/ login	USN-1	I can become a user of the app by entering my phone number, user name, password, and password confirmation.	2	High	Harish Kumar, Akhash
Sprint-1	User confirmation	USN-2	Because I am a user, I sign in with my password and the password sign up.	2	High	Kavin Raj, Akhash
Sprint-1		USN-3	Once I've registered for the application, I'll receive a confirmation email.	1	Medium Anna University	Haari Prassana, Kavin Raj
Sprint-1		USN-4	As a user, I will receive a confirmation OTP as soon as I register for the application.	2	High	Haari Prassana, Akhash
Sprint-4	Interfacing	USN-5	All necessary devices, databases, and scripts must be linked.	2	High	Harish Kumar, Kavin Raj

Sprint-2	Setting geo fence	USN-6	I calculate the geolocation coordinates for the geofence based on the user's input.	1	Medium	Harish Kumar , Haari Prassana

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	User notification	USN-7	I calculate the geolocation coordinates for the geofence based on the user's input.	2	High	Kavin Raj, Harish Kumar
Sprint-4	Emergency usage	USN-8	In the event of a potential emergency, I create a module that alerts users via mobile phone.	2	High	Haari Prassana, Akhash
Sprint-2	Tracking location	USN-9	I provided the sensor's current location.	1	High	Akhash, Harish Kumar
Sprint-3		USN-10	I develop a module that allows the dashboard to display the user's current location.	2	Medium	Kavin Raj, Haari Prassana
Sprint-3	User location check	USN-11	I get the current position from a cloud database and use it to check for out-of-boundary locations against geo-fences that I've set up.	2	High	Harish Kumar, Akhash
Sprint-2	Database	USN-12	I construct databases.	2	High	Kavin Raj, Haari Prassana
Sprint-4		USN-13	I maintain a database.	2	Medium	Akhash, Haari Prassana

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	29 Oct 2022	31 Oct 2022	20	05 Oct 2022
Sprint-2	20	6 Days	05 Nov 2022	07 Nov 2022	20	11 Nov 2022
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-3	20	6 Days	11 Nov 2022	12 Nov 2022	20	13 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 plots the amount of work remaining to perform against the amount of time. In agile software development approaches like Scrum, it is frequently employed. Burn down charts, however, can be used for any project that makes observable 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
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https://www.atlassian.com/agile/tutorials/burndown-charts