Project Planning Phase

Date	12 November 2022
Team ID	PNT2022TMID50197
Project Name	Project – IoT Based Safety Gadget 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.	4	High	Sam Daniel, Premkumar
Sprint-1	Confirmation Email	USN-2	As a user, I will receive confirmation email once I have registered for the application	4	High	Vanaselvam, Sam Daniel
Sprint-1	Authentication	USN-3	As a user, I can register for the application through Gmail and mobile app	4	Medium	Premkumar, Rajeshkumar
Sprint-1	Login	USN-4	As a user ,I can log into the application by entering email and password	4	High	Samuel, Sam Daniel
Sprint-1	Dashboard	USN-5	As a user , I need to able to view the functions that I can perform	4	High	Vanaselvam
Sprint-2	Notification	USN-1	As a user, I should be able to notify my parent and guardian in an emergency situation	10	High	Premkumar, Vanaselvam

Sprint-2	Store data	USN-2	As a user ,I need to continuously store my location data into the database	10	High	Sam Daniel, Vanaselvam, Premkumar
Sprint-3	Communication	USN-3,1	I should be able to communicate with my parent	6	Low	Samuel, Vanaselvam
Sprint-3	IoT Device- Watson communication	UsN-1,4	The data from IoT device should reach IBM Cloud	7	Mediun	Premkumar
Sprint-3	Node Red- Cloudant DB communication	USN-5,2	The data stored in IBM Cloud should be properly integrated with Cloudant DB	7	High	Samuel, Sam Daniel, Rajeshkumar
Sprint-4	User - WebUI Interface	USN-1,4	The Web UI should get inputs from the user	10	High	Sam Daniel, Vanaselvam
Sprint-4	Geofencing	USN-2,3,5	The geofencing of the child should be done based on the geographical location	10	High	Sam Daniel, Vanaselvam, Premkumar

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	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:

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)

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