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

Date	15 November 2022
Team ID	PNT2022TMID53923
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 a 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, and password, and confirming my password.	4	High	ABDUL RAHEEM ALAGU PANDIAN DANIEL RAJ HARISH KUMAR
Sprint-1	Confirmation Email	USN-2	As a user, I will receive a confirmation email once I have registered for the application	4	High	ABDUL RAHEEM ALAGU PANDIAN DANIEL RAJ HARISH KUMAR
Sprint-1	Authentication	USN-3	As a user, I can register for the application through Gmail and mobile app.	4	Medium	ABDUL RAHEEM ALAGU PANDIAN DANIEL RAJ HARISH KUMAR
Sprint-1	Login	USN-4	As a user, I can log into the application by entering email & password	4	High	ABDUL RAHEEM ALAGU PANDIAN DANIEL RAJ HARISH KUMAR
Sprint-1	Dashboard	USN-5	As a user, I need to be able to view the functions that I can perform	4	High	ABDUL RAHEEM ALAGU PANDIAN DANIEL RAJ HARISH KUMAR
Sprint-2	Notification	USN-1	As a user, I should be able to notify my parent and guardian in emergency situations	10	High	ABDUL RAHEEM ALAGU PANDIAN DANIEL RAJ HARISH KUMAR
Sprint-2	Store data	USN-2	As a user, I need to continuously store my location data into the database.	10	Medium	ABDUL RAHEEM ALAGU PANDIAN DANIEL RAJ HARISH KUMAR
Sprint-3	Communication	USN-3,1	I should be able to communicate with my parents	6	Low	ABDUL RAHEEM ALAGU PANDIAN DANIEL RAJ HARISH KUMAR

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	IoT Device – Watson communication	USN-1,4	The data from IoT device should reach IBM Cloud	7	Medium	ABDUL RAHEEM ALAGU PANDIAN DANIEL RAJ HARISH KUMAR
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	ABDUL RAHEEM ALAGU PANDIAN DANIEL RAJ HARISH KUMAR
Sprint-4	User – WebUI interface	USN-1,4	The Web UI should get inputs from the user	6	High	ABDUL RAHEEM ALAGU PANDIAN DANIEL RAJ HARISH KUMAR
Sprint-4	Geofencing	USN-2,3,5	The geofencing of the child should be done based on the geographical coordinates	7	High	ABDUL RAHEEM ALAGU PANDIAN DANIEL RAJ HARISH KUMAR

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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	4 Days	11 Nov 2022	14 Nov 2022	20	14 Nov 2022
Sprint-2	20	4 Days	11 Nov 2022	14 Nov 2022	20	14 Nov 2022
Sprint-3	20	5 Days	11 Nov 2022	15 Nov 2022	20	15 Nov 2022
Sprint-4	20	5 Days	11Nov 2022	15 Nov 2022	20	15 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: