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

Date	09 November 2022
Team ID	PNT2022TMID49271
Project Name	IoT Based Safety Gadget for Child Safety Monitoring and Notification
Maximum Marks	8 Marks

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

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.	7	High	Raman T Sabari R Nageshwaran S Sundar Naveen M Manoj Kumar S
Sprint-1	Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	7	High	Raman T Sabari R Nageshwaran S Sundar Naveen M Manoj Kumar S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Login	USN-3	As a user, I can log into the application by entering email & password	6	Medium	Raman T Sabari R Nageshwaran S Sundar Naveen M Manoj Kumar S
Sprint-2	Dashboard	USN-4	As a user, I can monitor the child's location 24/7 and view the functions	7	High	Raman T Sabari R Nageshwaran S Sundar Naveen M Manoj Kumar S
Sprint-2	Notification	USN-5	As a user, I should be able to notify my parent and guardian in emergency situations	7	High	Raman T Sabari R Nageshwaran S Sundar Naveen M Manoj Kumar S
Sprint-2	Login	USN-3	As a user, I can register for the application through my Google Account	6	Low	Raman T Sabari R Nageshwaran S Sundar Naveen M Manoj Kumar S
Sprint-3	Application	USN-6	The App should get inputs from the user	5	High	Raman T Sabari R Nageshwaran S Sundar Naveen M Manoj Kumar S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	IOT Device – Watson Communication	USN-7	The device should be integrated with IBM Watson	5	High	Raman T Sabari R Nageshwaran S Sundar Naveen M Manoj Kumar S
Sprint-3	Watson – Node RED Communication	USN-8	The data from IBM Watson is sent to Node RED	5	High	Raman T Sabari R Nageshwaran S Sundar Naveen M Manoj Kumar S
Sprint	**Functional Requirement (Epic)**	**User Story Number**	**User Story / Task**	**Story Points**	**Priority**	**Team Members**
Sprint-3	Node RED- Cloudant DB communication	USN-9	The data from Node-RED should be properly integrated with Cloudant DB	5	High	Raman T Sabari R Nageshwaran S Sundar Naveen M Manoj Kumar S
Sprint-4	Geofencing	USN-10	The geofencing of the child should be done based on the geographicalcoordinates	10	High	Raman T Sabari R Nageshwaran S Sundar Naveen M Manoj Kumar S
Sprint-4	Data Security	USN-11	Maintaining and making sure the database containing the locations are secure and accurate and is updated constantly.	10	High	Raman T Sabari R Nageshwaran S Sundar Naveen M Manoj Kumar S

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	On Process
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	On Process

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)

$$AV = \frac{\text{Sprint Duration}}{\text{Velocity}} = 20/6 = 3.33$$