

## ProjectPlanningPhase

Date	18October2022
TeamID	PNT2022TMID45172
ProjectName	Project–IoTBasedSafetyGadgetforChild safetymonitoringandnotification
MaximumMarks	8Marks

### ProductBacklog,SprintSchedule,andEstimation(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	Roja Ramani
Sprint-1	Confirmation Email	USN-2	As a user, I will receive confirmation email once I have registered for the application	4	High	Vijayalakshmi
Sprint-1	Authentication	USN-3	As a user, I can register for the application through Gmail and mobile app	4	Medium	Kavya Jones
Sprint-1	Login	USN-4	As a user, I can log into the application by entering email and password	4	High	Rexiba Sabasti
Sprint-1	Dashboard	USN-5	As a user, I need to be able to view the functions that I can perform	4	High	Roja Ramani
Sprint-2	Notification	USN-1	As a user, I should be able to notify my parent and guardian in an emergency situation	10	High	Roja Ramani, Vijayalakshmi
Sprint-2	Store data	USN-2	As a user, I need to continuously store my location data into the database	10	High	Kavya Jones, Rexiba Sabasti

Sprint-3	Communication	USN-3,1	I should be able to communicate with my parent	6	Low	Roja Ramani
Sprint-3	IoT Device-Watson communication	USN-1,4	The data from IoT devices should reach IBM Cloud	7	Medium	Vijayalakshmi
Sprint-3	NodeRed-CloudantDB communication	USN-5,2	The data stored in IBM Cloud should be properly integrated with CloudantDB	7	High	Kavya Jones, Rexiba Sebast
Sprint-4	User - WebUI Interface	USN-1,4	The WebUI should get inputs from the user	10	High	Roja Ramani, Kavya Jones
Sprint-4	Geofencing	USN-2,3,5	The geofencing of the child should be done based on the geographical location	10	High	Vijayalakshmi, Rexiba Sebast

#### 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)

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