

## Project Planning Phase

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

<b>TEAM ID</b>	<b>PNT2022TMID52225</b>
Project title	IoT based Safety Gadget for Child Based Monitoring and Notification

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

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

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Projects / IoT Based Safety Gadget for Child Safety Monitoring and Notification

Backlog

SA P R Y

Epic

IBSGFCMN Sprint 1

Add dates

> issues

0 12 3 Start sprint

IBSGFCMN-4 As a user, I can register for the application by entering my email, and password, and confirming my password. REGISTRATION

4 DONE SA

IBSGFCMN-2 As a user, I will receive a confirmation email once I have registered for the application CONFIRMATION EMAIL

4 IN PROGRESS P

IBSGFCMN-3 As a user, I can register for the application through Gmail and mobile app. AUTHENTICATION

4 IN PROGRESS P

IBSGFCMN-4 As a user, I can log into the application by entering email & password LOGIN

4 DONE P

IBSGFCMN-5 As a user, I need to be able to view the functions that I can perform DASHBOARD

4 IN PROGRESS SA

+ Create issue

IBSGFCMN Sprint 2

Add dates

2 issues

0 20 0 Start sprint

IBSGFCMN-6 As a user, I should be able to notify my parent and guardian in emergency situations NOTIFICATION

10 IN PROGRESS P

IBSGFCMN-7 As a user, I need to continuously store my location data into the database. STORE DATA

10 IN PROGRESS P

+ Create issue

IBSGFCMN Sprint 3

Add dates

3 issues

0 20 0 Start sprint

IBSGFCMN-8 I should be able to communicate with my parents COMMUNICATION

6 IN PROGRESS P

IBSGFCMN-9 The data from IoT device should reach IBM Cloud IOT DEVICE - WATSON COMMUNIC...

7 IN PROGRESS P

IBSGFCMN-10 The data stored in IBM Cloud should be properly integrated with Cloudant DB NODE RED - CLOUDANT DB COMM...

7 IN PROGRESS SA

+ Create issue

IBSGFCMN Sprint 4

Add dates

2 issues

0 13 0 Start sprint

IBSGFCMN-11 The Web UI should get inputs from the user USER WEBUI INTERFACE

6 IN PROGRESS SA

IBSGFCMN-12 The geofencing of the child should be done based on the geographical coordinates GEOFENCING

7 IN PROGRESS P

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Turn those large, complex projects into bite-sized pieces of work. Scrum is a way of working, starting in your Backlog. This is where you prioritize and choose work that you can get done in a time-box, or sprint. Set a goal, go hard, then reflect, iterate, and do it again.

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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	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)

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

## Burndown Chart:

