

## Project Planning Phase

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

<b>TEAM ID</b>	<b>PNT2022TMID34547</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	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	SRIVENI A
Sprint-1	Confirmation Email	USN-2	As a user, I will receive a confirmation email once I have registered for the application	4	High	SUSHMA
Sprint-1	Authentication	USN-3	As a user, I can register for the application through Gmail and mobile app.	4	Medium	RATHI R
Sprint-1	Login	USN-4	As a user, I can log into the application by entering email & password	4	High	KARTHIKA DEVI M
Sprint-1	Dashboard	USN-5	As a user, I need to be able to view the functions that I can perform	4	High	SRIVENI A
Sprint-2	Notification	USN-1	As a user, I should be able to notify my parent and guardian in emergency situations	10	High	RATHI R
Sprint-2	Store data	USN-2	As a user, I need to continuously store my location data into the database.	10	Medium	SUSHMA
Sprint-3	Communication	USN-3,1	I should be able to communicate with my parents	6	Low	KARTHIKA DEVI M

<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>	<b>Team Members</b>
Sprint-3	IoT Device – Watson communication	USN-1,4	The data from IoT device should reach IBM Cloud	7	Medium	SUSHMA
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	SRIVENI A
Sprint-4	User – WebUI interface	USN-1,4	The Web UI should get inputs from the user	6	High	SRIVENI A
Sprint-4	Geofencing	USN-2,3,5	The geofencing of the child should be done based on the geographical coordinates	7	High	SUSHMA

Browser tabs: jira issue and project tracking sof | IoT Based Safety Gadget for Child Safety Monitoring and Notification

Address bar: pnt2022tmid034547.atlassian.net/jira/software/projects/IBSGFCMN/boards/1/backlog

Navigation: Jira Software | Your work | Projects | Filters | Dashboards | People | Apps | Create

Project: IoT Based Safety Gadget for Child Safety Monitoring and Notification

### Backlog

IBSGFCMN Sprint 1 (5 issues)

- IBSGFCMN-1 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)

IBSGFCMN Sprint 2 (2 issues)

- 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)

IBSGFCMN Sprint 3 (3 issues)

- 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)

IBSGFCMN Sprint 4 (2 issues)

- 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)

Quickstart sidebar:

- Create a project
- Deliver more often with scrum
- Create an issue
- Invite your teammates
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System tray: Windows taskbar with icons for Start, Edge, File Explorer, Dell, Chrome, Word, and system status (ENG IN, 13:54, 30-10-2022).

### 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:

