

## Project Planning Phase

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

Date	20 October 2022
Team ID	PNT2022TMID38406
Project Name	Project – IOT Based Safety Gadget for ChildSafety Monitoring and Notification
Maximum Marks	8 Marks

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

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	User signup/login	USN-1	As a user, I can sign up for the application by entering my phone number , user name, password, and confirming my password.	2	High	Jennifer, Sandhya
Sprint-1	User confirmation	USN-2	As a user, I can login with my username and password once signed up	2	High	Hemapriya , Vijayalakshmi
Sprint-1		USN-3	As a user, I will receive confirmation emailonce I have signed up for the application	1	Medium	Sugheerthi Meena,Jennifer
Sprint-1		USN-4	As a user, I will receive confirmation OTPonce I have signed up for the application	2	High	Sandhya,Hema priya
Sprint-4	Interfacing	USN-5	I need to connect all involved scripts, database and devices	2	High	Sugheerthi Meena,Vijayalakshmi
Sprint-2	Setting geo fence	USN-6	I specify the geo location coordinates for geofence based on user given input	1	Medium	Hema priya , Jennifer

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	User notification	USN-7	I develop a module to notify user via app in case of possible emergency	2	High	Vijayalakshmi,Sugheerthi Meena
Sprint-4	Emergency usage	USN-8	I develop a module to notify user via mobile number in case of possible emergency	2	High	Sandhya , Vijayalakshmi
Sprint-2	Tracking location	USN-9	I input live location from sensor	1	High	Hema priya,Sugheerthi Meena
Sprint-3		USN-10	I develop a module to make current location viewable from dashboard	2	Medium	Jennifer, Sandhya
Sprint-3	User location check	USN-11	I check for out of boundary location against established geo-fence by fetching live location from cloud database	2	High	Hema priya,Sandhya
Sprint-2	Database	USN-12	I create a database	2	High	Vijayalakshmi,Sugheerthi Meena
Sprint-4		USN-13	I maintain a database	2	Medium	Jennifer , Hema priya

### 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	04 Nov 2022

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-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	11 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:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>

<https://www.atlassian.com/agile/tutorials/burndown-charts>

### Reference:

<https://www.atlassian.com/agile/project-management>

<https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software>

<https://www.atlassian.com/agile/tutorials/epics>

<https://www.atlassian.com/agile/tutorials/sprints>

<https://www.atlassian.com/agile/project-management/estimation>

<https://www.atlassian.com/agile/tutorials/burndown-charts>