

## Project Planning Phase

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

Date	8 November 2022
Team ID	PNT2022TMID45390
Project Name	Project - lot based safety gadget for child monitoring and notification
Maximum Marks	8 Marks

### Product Backlog, Sprint Schedule, and Estimation (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.	2	High	Alex,Ram kumar
Sprint 1	Email	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Syed jalaludeen ,mohamed fayaz
Sprint 2	Authentication	USN-3	As a user, I can register for the application through Facebook	2	Low	Ram kumar,syed jalaludeen
Sprint 1	Login	USN-4	As a user, I can login for the application through Gmail	2	Medium	Mohamed fayaz,alex
Sprint 1	Dashboard	USN-5	As a user, I can log into the application by entering email & password	1	High	Alex,syed jalaludeen


Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task
Sprint-1	Notification	USN-1	As a user, I should be able to notify my parent and As a user,
Sprint-1	Data storage	USN-2	I need to continuously store my location As a user, to
Sprint-2	communication	USN-3	communicate with my parents

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint -3	IoT Device – Watson communication	USN 1,4	The data from IoT device should reach IBM Cloud	5	Medium	Alex,Ram kumar
Sprint -3	Node RED Cloudant DB communication	USN 5,2	The data stored in IBM Cloud should be properly integrated with Cloudant DB	6	High	Syed jalaludeen ,mohamed fayaz
Sprint -4	User – WebUI interface	USN 1,4	The Web UI should get inputs from the user	7	High	Ram kumar,syed jalaludeen

Sprint -4	Geofencing	USN 2,3,5	The geofencing of the child should be done based on the geographic	6	High	Alex,syed jalaludeen
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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:**

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.