

Project Planning Phase

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

Date	21 October 2022
Team ID	PNT2022TMID06857
Project Name	IoT Based Safety Gadget for Child Safety Monitoring & 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	4
Sprint-1	Login	USN-2	As a user, I can log into the application by entering email & password	2	High	4
Sprint-2	Diverse connectivity	USN-1	As a user I can connect the device via WIFI or LTE	2	Medium	4
Sprint-3	Knowing Location	USN-1	As a user I can see the location of my child	3	High	4
Sprint-3		USN2	As a user I can see my child's previous visited locations	2	Medium	4
Sprint-4	Setting Geofence	USN-1	As a user I can set the geofence for my child	3	High	4
Sprint -4		USN-2	As a user I get notification when my child is outside the safe zone	2	High	4

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	4	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	2	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	5	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	5	19 Nov 2022

Velocity:

We have a 6-day sprint duration, and the velocity of the team is 4 (approx.) points per sprint. Let us calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{16}{6} = 2.66$$

Burndown Chart:

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

