

Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID34921
Project Name	IOT Based Safety Gadget for Child Safety 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	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	8	High	Reshma, Saranya
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	5	Medium	Krishna Anusha, Vaishnavi
Sprint-1		USN-3	As a user, I can Register my phone number	2	Low	Saranya Vaishnavi
Sprint-1		USN-4	As a user, I will receive OTP or call for confirmation once I have registered for the Application	5	Medium	Vaishnavi Reshma
Sprint-3	Login	USN-5	As a user, I can log into the application by entering email & password	8	High	Reshma

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Navigation and tracking	USN-6	As a user i can monitor the live location of the child by using geo-fence.	8	High	Reshma Krishna Anusha
Sprint-2		USN-7	As a user i can track the location timeline of the child	5	Medium	Vaishnavi Krishna Anusha
Sprint-2		USN-8	Monitoring whether the child is within a limited range	3	Medium	Reshma
Sprint-4	Notification	USN-9	As a user I will receive a notification of child's real time location	5	Medium	Krishna Anusha
Sprint-4		USN-10	As a user I will receive a a notification when the child is out of range	5	Medium	Reshma, Krishna Anusha
Sprint-4		USN-11	As a user i will receive a notification when the child is reached the school	5	Medium	Saranya Vaishnavi
Sprint-3		USN-12	As a user i will receive a notification when the child is leave the school	2	Low	Reshma Krishna Anusha
Sprint-2	Sensing	USN-13	As a user i can sense the temperature of the child by using temperature sensor	1	Low	Saranya Vaishnavi
Sprint-2		USN-14	As a user i can measure the pulse rate of the child by using heart beat sensor	1	Low	Reshma Krishna Anusha
Sprint-3	Notification	USN-15	As a user i will receive a notification when changes occurs in temperature of the child	5	Medium	Krishna Anusha, Saranya
Sprint-3		USN-16	As a user i will receive a notification when changes occurs in pulse rate of the child	5	Medium	Reshma Vaishnavi
Sprint-2	Panic button	USN-17	As a child i can press the panic button when i feel insecure	2	Low	Reshma
Sprint-4	Notification	USN-18	As a user I will receive a notification and alarm when the child click the panic button	5	Medium	Reshma

Project Tracker, Velocity & Burn-down 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.

<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>