

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

Date	22 October 2022
Team ID	PNT2022TMID42300
Project Name	Personal assistant for senior people who are self-Reliant
Maximum Marks	8 Marks

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	User Registration	USN-1	As a user, I can register for the application by entering my email, and password, and confirming user password.	4	High	Monica Pavan Kumar Rathish Mani Kandan Kaviyarasan
Sprint-1	Confirmation Email	USN-2	As a user, I will receive a confirmation Email once I have registered for the application	4	High	Monica Mani Kandan Kaviyarasan
Sprint-1	Authentication	USN-3	As a user, I can register for the application through Gmail and mobile app.	4	Medium	Monica Pavan Kumar
Sprint-1	Login	USN-4	As a user, I can log into the application by entering email & password	4	High	Rathish Mani Kandan
Sprint-1	Dashboard	USN-5	As a user, I need to be able to view the functions that I can perform	4	High	Monica Pavan Kumar Rathish
Sprint-2	Notification	USN-1	As a user, I should be able to notify my Parent and guardian in emergency situations	1 0	High	Mani Kandan Kaviyarasan
Sprint-2	Store data	USN-2	As a user, I need to continuously store my location data into the database.	1 0	Medium	Monica
Sprint-3	Communication	USN-3,1	I should be able to communicate with user	6	Low	Pavan Kumar

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	7	Medium	Kaviyarasan Rathish
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	Monica Kaviyarasan
Sprint-4	User – Web UI interface	USN-1,4	The Web UI should get inputs from the user	6	High	Rathish Mani Kandan
Sprint-4	Alarm	USN-2,3,5	The Alarm of the remainder should be Done based on the medication time	7	High	Pavan Kumar Rathish Mani Kandan

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	4 November 2022	9 November 2022	20	9 Nov 2022
Sprint-2	20	6 Days	10 November 2022	15 November 2022	20	15 Nov 2022
Sprint-3	20	6 Days	16 November 2022	21 November 2022	20	21 Nov 2022
Sprint-4	20	6 Days	22 November 2022	28 November 2022	20	28 Nov 2022

Velocity:

Imagine we have a 6-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)

$$\begin{aligned}
 AV &= \text{SPRINT DURATION} / \text{VELOCITY} \\
 &= 20/6 \\
 &= 3.33
 \end{aligned}$$

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.

- monitoring the project scope creep
- Keeping the team running on schedule
- Comparing the planned work against the team progression

