

PROJECT PLANNING PHASE

Date	02 November 2022
Team ID	PNT2022TMID50604
Project Name	Personal Assistance for Senior citizens Who Are Self-Reliant
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		US-1	Create the IBM Cloud services which are being used in this project.	6	High	Sadhana shri dharmarajan Durga.N Narmatha.U Preethi.N
Sprint-1		US-2	Configure the IBM Cloud services which are being used in completing this project.	4	Medium	Sadhana shri dharmarajan Durga.N Narmatha.U Preethi.N
Sprint-1		US-3	IBM Watson IoT platform acts as the mediator to connect the web application to IoT devices, so create the IBM Watson IoT platform.	5	Medium	Sadhana shri dharmarajan Durga.N Narmatha.U Preethi.N
Sprint-1		US-4	In order to connect the IoT device to the IBM cloud, create a device in the IBM Watson IoT platform and get the device credentials.	5	High	Sadhana shri dharmarajan Durga.N Narmatha.U Preethi.N
Sprint-2		US-1	Configure the connection security and create API keys that are used in the Node-RED service for accessing the IBM IoT Platform.	10	High	Sadhana shri dharmarajan Durga.N Narmatha.U Preethi.N

Sprint-2		US-2	Create a Node-RED service.	10	High	
Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3		US-1	Develop a APPLICATION that reminds elders to take their medicines.	7	High	Sadhana shri dharmarajan Durga.N Narmatha.U Preethi.N
Sprint-3		US-2	After that upload the information to the device that reminds them to take their medicine	5	Medium	Sadhana shri dharmarajan Durga.N Narmatha.U Preethi.N
Sprint-3		US-3	Publish Data to The IBM Cloud	8	High	Sadhana shri dharmarajan Durga.N Narmatha.U Preethi.N
Sprint-4		US-1	Create Web UI in Node- Red	10	High	Sadhana shri dharmarajan Durga.N Narmatha.U Preethi.N
Sprint-4		US-2	Configure the Node-RED flow to receive data from the IBM IoT platform and also use Cloudant DB nodes to store the received sensor data in the cloudant DB	10	High	Sadhana shri dharmarajan Durga.N Narmatha.U Preethi.N

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	02 Nov 2022	02 Nov 2022	20	02 Nov 2022
Sprint-2	20	6 Days	08 Nov 2022	08 Nov 2022	20	08 Nov 2022
Sprint-3	20	6 Days	14 Nov 2022	14 Nov 2022	20	14 Nov 2022
Sprint-4	20	6 Days	20 Nov 2022	20 Nov 2022	20	20 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 burndown 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, burndown charts can be applied to any project containing measurable progress overtime.

