

Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID40462
Project Name	Smart waste management system for metropolitan cities-iot
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, we must register for an IBM cloud account , IoT platform ,RED node service and cloudant DB.	2	High	Mystica,Raghul
Sprint-2		USN-2	As a user, we develop a python script to publish random sensor data.	2	High	Santhoshshivan,Shanmugakamalesh
Sprint-3		USN-3	As a user send the sensor data to IBM Watson IoT platform,install palette for nodes available in Node red.	2	Medium	Santhoshshivan,Shanmugakamalesh Mystica,Raghul
Sprint-4	Dashboard	USN-4	Configure the Node-RED flow to receive data from the IBM IoT platform and a web UI should be created in Node-RED	1	High	Santhoshshivan,Shanmugakamalesh Mystica,Raghul

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		
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022		
Sprint-4	20	6 Days	14 Nov 2022	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)

$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{20}{10} = 2$$