

Project Planning Phase

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

Date	07 NOVEMBER 2022
Team ID	PNT2022TMID14976
Project Name	Smart Waste Management System For Metropolitan Cities
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	DHARSHNI & SAKTHI VEL
Sprint-1	Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	DHARSHNI
Sprint-1	Login	USN-3	As a user, I can log into the application by entering email & password	1	High	DHARSHNI
Sprint-1	Dashboard	USN-4	As a user, I can access all resources in the dashboard	2	Medium	DHARSHNI & ARTHIYA
Sprint-1	Monitoring	USN-5	As a user, I can monitor the status of the smart bins.	1	High	DHARSHNI & ARTHIYA
Sprint-2	Cloud configure	USN-6	Create and configure the IBM Cloud services which are being used in this project.	2	High	ANISHKUMAR & PRASANTH
Sprint-2		USN-7	Connect the IoT device to the IBM cloud, create a device in the IBM Watson IoT platform and get the device credentials	3	Medium	ANISHKUMAR & PRASANTH
Sprint-2		USN-8	Develop a python script to publish random sensor data such as Loadcell, IR sensor and GSM/GPS to the IBM IoT platform	4	Medium	ANISHKUMAR
Sprint-3	Creates and maintains	USN-9	As an admin, I can create and maintain all information about the bins	2	Medium	SAKTHI VEL & PRASANTH

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Provide credentials	USN-10	As an admin, I can provide or revoke login credentials to the municipality employees	1	Low	SAKTHI VEL & PRASANTH
Sprint-4	Alerting	USN-11	As a user, I can alert the truck drivers to clear trash by sending the location of bin as SMS.	3	High	ARTHIYA & ANISHKUMAR
Sprint-4	Add/Remove/Update smart bins in a locality	USN-12	As an admin, I can add, remove or update any bins in that locality into the system.	2	Medium	ARTHIYA & ANISHKUMAR

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	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:

