

Project Planning Phase

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

Date	24 October 2022
Team ID	PNT2022TMID02664
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 employee ID, email, password, and confirming my password.	1	High	Nivedhitha
Sprint-1	Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	Medium	Nivedhitha
Sprint-1	Login	USN-3	As a user, I can log into the application by entering email & password	2	High	Nivedhitha
Sprint-1	Dashboard	USN-4	As a user, I can access all resources in the dashboard.	2	Medium	Srinivasan
Sprint-1	Monitoring	USN-5	As a user, I can monitor the status of the smart bins.	1	High	Srinivasan
Sprint-2	Cloud configure	USN-6	Create and configure the IBM Cloud services which are being used in this project.	2	High	Yoga Lakshmi
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	Yoga Lakshmi

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
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	Yoga Lakshmi
Sprint-3	Creates and maintains	USN-9	As an admin, I can create and maintain all information about the bins.	2	Medium	Srinivasan
Sprint-3	Provide credentials	USN-10	As an admin, I can provide or revoke login credentials to the municipality employees	1	Low	Pethachi
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	Pethachi
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	Srinivasan

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)

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