

PROJECT PLANNING PHASE
PROJECT PLANNING (PRODUCT BACKLOG, SPRINT PLANNING, STORIES,
STORY POINTS)

DATE	22 OCTOBER 2022
TEAM ID	PNT2022TMID42279
PROJECT NAME	PROJECT-SMART WASTE MANAGEMENT SYSTEM IN METROPOLITAN CITIES.
MAXIMUM MARKS	8 MARKS

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Administrator	USN-1	As an Admin, I need to give access to the web app for the users, drivers and every other municipal worker.	2	High	Sivaranjani, Arunjeyalakshmi.
Sprint-1	Co-Administrator	USN- 2	As a Co-admin, I can monitor the smart bins using ultrasonic and acoustic sensors.	5	Medium	Gomal Rajya Shri, Sivaranjani.
Sprint-1	User Registration	USN- 3	As a user, I can register for the application byentering my email or mobile number, password and confirming my password.	5	Medium	Arunajeyalakshmi, Gomal Rajya Shri.
Sprint-1	login	USN-4	As a User, I can login to the application byentering email & password.	8	High	Sivaranjani,Guhan .
Sprint-2	User confirmation	USN-1	As a user, I can confirm my login using the OTP sent to my mobile number.	3	Low	Gomal Rajya Shri, Guhan.

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Data Sync	USN-1	The smart bins send their data to the cloud in the real time which is in turn updates to the web app and the administrator's dashboard.	2	Medium	Arunajeyalakshmi, Sivaranjani
Sprint-2		USN-2	As a User, I can access information about the smart bins level and the number of bins filled in my area.	13	High	Sivaranjani, Gomal Rajya Shri.
Sprint-2		USN-3	As a Driver, I can access the map provided by the web app to get the shortest distance between two filled smart bins.	2	High	Guhan, Arunajeyalakshmi.
Sprint-3	Notification	USN-1	As a User, I can receive message in the form of visual notification.	5	Medium	Sivaranjani, Gomal Rajya Shri, Arunajeyalakshmi.
Sprint-3	SMS Notification	USN-2	As a user, I can receive SMS notification when the smart bins are filled over 75%.	1	High	Gomal Rajya Shri, Guhan.
Sprint-3	Alert Notification	USN-3	As a User, I can get the alert message if any smart bins caught fire or any kind of unusual things happened to the smart bins .	13	High	Guhan, Sivaranjani.
Sprint-3	Maintenance	USN-1	As an executive, I manage a team of representatives offering customer support.	1	Low	Arunajeyalakshmi, Gomal Rajya Shri.
Sprint-4	Admin Dashboard	USN-1	AS an Admin, I can receive information about the situation and can alert the concerned authorities.	2	Low	Guhan, Arunajeyalakshmi

Sprint-4	User Dashboard	USN-2	As a user, I can acknowledge information about smart bins on my dashboard.	13	High	Arunajeyalakshmi, Sivaranjani
Sprint-4	Municipality	USN-3	As a Municipal Corporation, I can check whether the work is happening efficiently or not.	5	Medium	Guhan, Gomal Rajya Shri

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)

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

JIRA BOARDS:

SWMSFMC board - Agile board

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PLANNING

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Projects / smart waste management systems for metropolitan cities

All sprints

GP | Epic | Sprint

GROUP BY: None | Insights

TO DO 3 ISSUES

- To receive information and alert concerned authorities.
ADMIN DASHBOARD
SWMSFMC-13
- To acknowledge info about smart bins through dashboard.
USER DASHBOARD
SWMSFMC-14
- To check the on going work by Municipal Corporation of the Metropolitan cities.
MUNICIPALITY
SWMSFMC-15

IN PROGRESS 8 ISSUES

- To user's confirmation a OTP must be sent to the user's mobile number.
USER CONFIRMATION
SWMSFMC-5
- To update the information from the smart bins to the cloud and then to the dash boards of administrator and user.
DATA SYNC
SWMSFMC-6
- To ensure user gets status report on the smart bins.
COMMON USER WEB APP
SWMSFMC-7

DONE 4 ISSUES

- To give access to web app for all kinds of users.
ADMINISTRATOR
SWMSFMC-1
- To monitor smart bins using Ultrasonic and Acoustic sensors.
CO-ADMINISTRATOR
SWMSFMC-2
- To register for application by entering email or mobile number and password.
USER REGISTRATION
SWMSFMC-3
- To login in web app using user's

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ROAD MAP:

