

## Project Planning Phase (Product Backlog, Sprint Planning, Stories, Story points)

Date	09 NOVEMBER 2022
Team ID	PNT2022TMID422266
Project Name	SMART WASTE MANAGEMENT SYSTEM IN METROPOLITAN CITIES
Maximum Marks	8 Marks

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

Sprint	Functional Requirement	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Administrator	USN-1	As an admin, we need to give access to the drivers, users and other municipality workers.	2	High	Sakthi kiran M B, Swetha R
Sprint-1	Co-Administrator	USN-2	As an co-admin, we need to monitor the garbage bin levels and sensors are used in the garbage bins.	5	Medium	Mona dhakshaya J K, Hariprasath K
Sprint-1	User Registration	USN-3	As an user, we can register the application by entering the email or mobile number, password and confirming the account.	5	Medium	Jerusha Jaisal J L, Sakthi kiran M B
Sprint-1	Login	USN-4	As an user, we can login the application using the mobile number or Email.	8	High	Swetha R, Mona dhakshaya J K

Sprint-2	User confirmation	USN-1	As an user, we can confirm my login page using OTP is sent to the Mobile number or Email.	2	Low	Hariprasath K, Jerusha Jaisal J L
Sprint-2	Data Sync	USN-2	The smart bins send their data to the cloud in the real time which is in turn updates in the web application and the administrator's dashboard.	13	Medium	Sakthi kiran M B, Swetha R
Sprint-2	User access	USN-3	As an user, We can access the information about the smart bin level and the number of bins are filled in the area.	3	High	Mona dhakshaya J K, Hariprasath K
Sprint-2	Find Path	USN-4	As an user, I can access the map through the web application to get the shortest distance between two filled in my areas.	2	High	Jerusha Jaisal J L, Sakthi kiran M B
Sprint-3	Notification	USN-1	As an user, we can receive a notification /message in the form visual notification.	5	Medium	Swetha R, Mona dhakshaya J K
Sprint-3	SMS Notification	USN-2	As a user, we can receive a SMS notification when the smart bins are filled over 75%.	1	High	Hariprasath K, Jerusha Jaisal J L
Sprint-3	Alert Notification	USN-3	As an user, We can get alert message if any smart bins caught fire or any kind of unusual things happened to the smart bins.	13	High	Sakthi kiran M B, Swetha R

Sprint-3	Maintenance	USN-4	As an executive, I manage the team of representatives offering customer support and maintenance.	1	Low	Mona dhakshaya J K, Hariprasath K
Sprint-4	Admin Dashboard	USN-1	As an executive, I can receive the information about that situation and can alert the concern people in authority.	2	Low	Jerusha Jaisal J L, Sakthi kiran M B
Sprint-4	Alert message for user	USN-2	As an user, I can get notification about the filled smart bins in our area.	5	Medium	Swetha R, Mona dhakshaya J K
Sprint-4	User Dashboard	USN-3	As an user, I can acknowledge information about smart bins on my dashboard.	8	High	Hariprasath K, Jerusha Jaisal J L
Sprint-4	Municipality	USN-4	As a Municipal Corporation, I can check whether the work is happening efficiently or not.	5	Medium	Sakthi kiran M B, Swetha R

### 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	31 Oct 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	07 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	14 Nov 2022

## Velocity:

The average velocity (AV) per iteration unit (story points per day) can be defined as sprint duration by velocity (points per sprint)

$$(AV = \text{Sprint duration} / \text{Velocity})$$

Given:

Sprint duration = 6days Velocity = 20

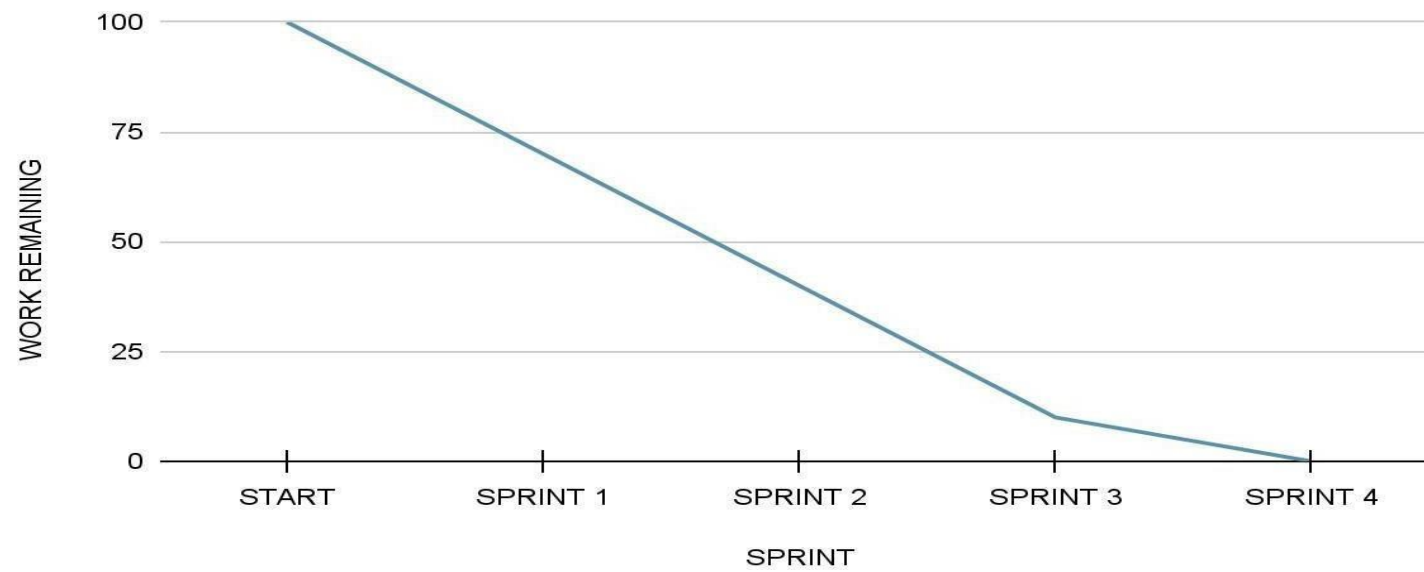
$$AV = 6 / 20 = 0.3$$

**AV = 0.3**

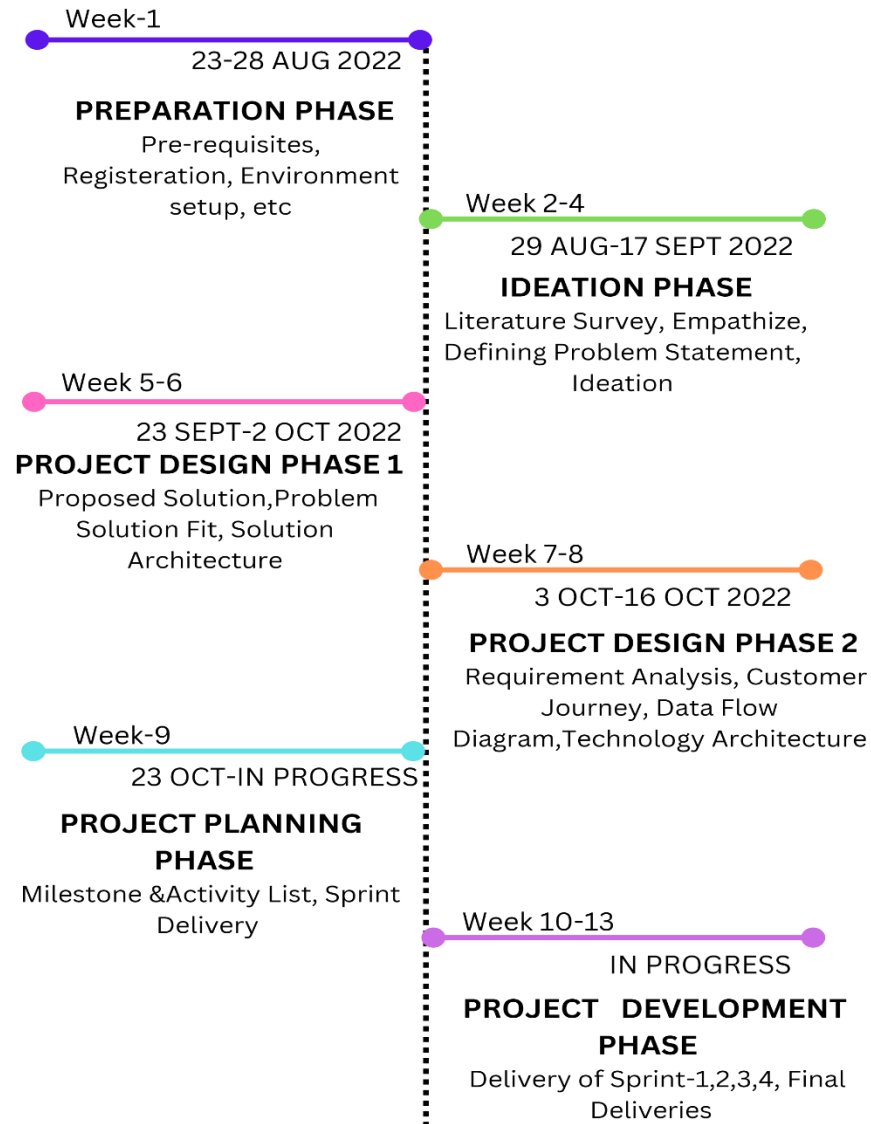
## Burndown Chart:

A

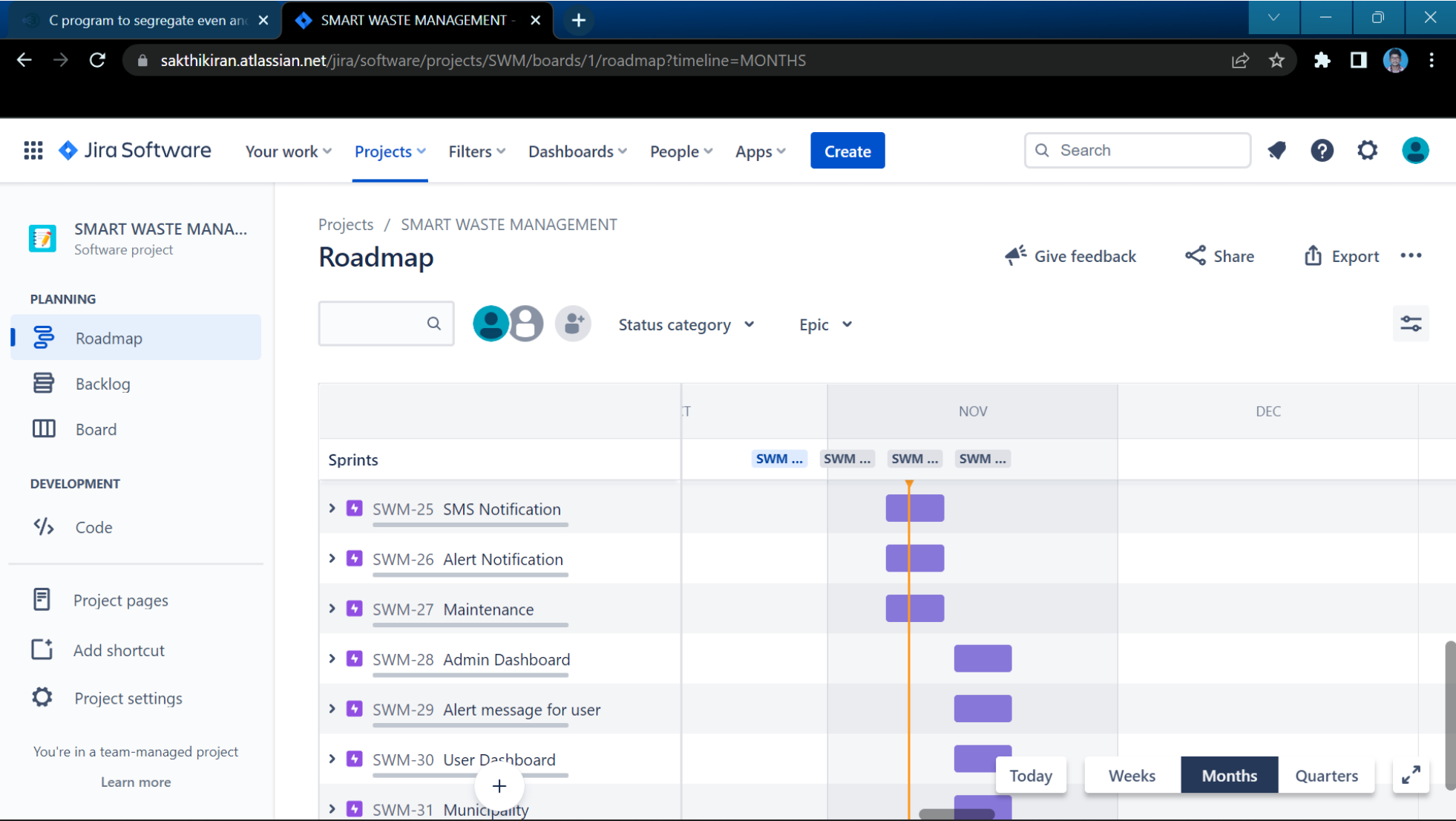
### Balance Work



# SPRINT DELIVERY PLAN



# ROADMAP:



SMART WASTE MANA...  
Software project

PLANNING

Roadmap

Backlog

Board

DEVELOPMENT

Code

Project pages

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Roadmap

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		NOV	DEC	
Sprints		SWM ...	SWM ...	SWM ...
> SWM-16 Administrator				
> SWM-17 Co-Administrator				
> SWM-18 User Registration				
> SWM-19 Login				
> SWM-20 User confirmation				
> SWM-21 Data sync				
> SWM-22 User access				

Today

Weeks

Months

Quarters





