

Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID18433
Project Name	Smart Waste Management for 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	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	15	High	MOHAMED-HASHIR GODBIN JAMES VIJAY VIGNESH SIVA GANESH
Sprint-1	Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	5	Medium	MOHAMED-HASHIR GODBIN JAMES VIJAY VIGNESH SIVA GANESH
Sprint-2	Login	USN-5	As a user, I can log into the application by entering email & password	10	High	MOHAMED-HASHIR GODBIN JAMES VIJAY VIGNESH SIVA GANESH

Sprint-2	Dashboard	USN-3	As a user, I can see the status of the garbage levels in garbage bins through website	10	High	MOHAMED-HASHIR GODBIN JAMES VIJAY VIGNESH SIVA GANESH
Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Notifications	USN-4	As a user, I will get request from the garbage bins once they are full	10	High	MOHAMED-HASHIR GODBIN JAMES VIJAY VIGNESH SIVA GANESH
Sprint-3	Profile	USN-3	As a user, I'll accept the request from bins and my status gets updated	10	High	MOHAMED-HASHIR GODBIN JAMES VIJAY VIGNESH SIVA GANESH
Sprint-4	Dashboard update	USN-5	As a user, I will unload the garbage bins and update the status of the bin to 'empty'	20	High	MOHAMED-HASHIR GODBIN JAMES VIJAY VIGNESH SIVA GANESH
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		
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Project Tracker, Velocity & Burndown Chart: (4 Marks)

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)

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

Average Velocity=20/6

AV=3.333

Burndown Chart:

A burndown chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.