

PROJECT PLANNING PHASE

Date	23 October 2022
Team Id	PNT2022TMID50677
Project Name	Smart Waste Management System For Metropolitan Cities
Maximum Marks	8 Marks

PRODUCT BACKLOG, SPRINT SCHEDULE, ESTIMATION (4 marks)

SPRINT	Functional Requirement(Epic)	User Story Number	User Story/Task	Story Points	Priority	Team Members
SPRINT 1	IBM Cloud Creation	USN-1	Create IBM cloud services which are being used in this project.	5	High	MARIYA PRINCEYA B
SPRINT 1	IBM Cloud Creation	USN-2	Configure IBM cloud services which are being used in completing this project.	5	Medium	MARISELVI B
SPRINT 1	IBM Cloud Creation	USN-3	IBM Watson IOT platform acts as the mediator to connect the web application to IOT devices, so create the IBM Watson IOT platform.	5	Medium	PORKODI M
SPRINT 1	IBM Cloud Creation	USN-4	In order to connect the IOT devices to the IBM cloud , create a device in the IBM Watson IOT platform and get the device credentials.	5	High	SARANYA S

SPRINT 2	Create and Configure Node – red	USN-1	Create a node –red service.	5	Medium	MARIYA PRINCEYA B
SPRINT 2	Create and Configure Node – red	USN-2	Configure the connection security and create API keys that are used in node-red service for accessing the IBM IOT platform.	5	High	MARISELVI B
SPRINT 2	Create and Configure Node – red	USN-3	Create the web application using node-red.	5	High	PORKODI M
SPRINT 2	Create and Configure Node – red	USN-4	Develop a python script to publish the details to IBM.	5	High	SARANYA S
SPRINT 3	Simulation on TINKERCAD	USN-1	Create TINKERCAD account for simulate the project.	5	Medium	MARIYA PRINCEYA B
SPRINT 3	Simulation on TINKERCAD	USN-2	Connect to all the IOT devices Arduino Uno board.	5	High	MARISELVI B

SPRINT 3	Simulation on TINKERCAD	USN-3	Load Embedded C on Arduino Uno board.	5	High	PORKODI M
SPRINT 3	Simulation on TINKERCAD	USN-4	Run and get the output on LCD display by displaying the garpage level.	5	High	SARANYA S
SPRINT 4	Submission process	USN-1	Check the date of the project.	5	Medium	MARISELVI B
SPRINT 4	Submission process	USN-2	Publish data to the IBM Cloud.	5	High	PORKODI M
SPRINT 4	Submission process	USN-3	Configure the node-red flow to receive data from the IBM IOT platform.	5	High	SARANYA S
SPRINT 4	Submission process	USN-4	Final submission steps of the project.	5	High	MARIYA PRINCEYA B

PROJECT TRACKER , VELOCITY & BURNDOWN CHART : (4 marks)

SPRINT	Total story points	Duration	Sprint start date	Sprint end date	Story points completed	Sprint release date
SPRINT-1	20	6 days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
SPRINT-2	20	6 days	31 Nov2022	05 Nov2022	20	05 Nov2022
SPRINT-3	20	6 days	07 Nov2022	12 Nov2022	20	12 Nov2022
SPRINT-4	20	6 days	14 Nov2022	19 Nov2022	20	19 Nov2022

VELOCITY :

$$\text{AV} = \frac{\text{SPRINT DURATION}}{\text{VELOCITY}} = 20 / 10 = 2$$