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 C program 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 :

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