Project Planning Phase

Date	21 October 2022
Team ID	PNT2022TMID41897
Project Name	SMART WASTE MANAGEMENT SYSTEM
Maximum Marks	8 Marks

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

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1		US-1	Create the IBM Cloud services which are being used in this project.	6	High	S Arunadevi P Nandhakumar P Shivani M Azahagupandi
Sprint-1		US-2	Configure the IBM Cloud services which are being used in completing this project.	4	Medium	S Arunadevi P Nandhakumar P Shivani M Azahagupandi
Sprint-1		US-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	S Arunadevi P Nandhakumar P Shivani M Azahagupandi

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1		US-4	In order to connect the IoT device to the IBM cloud, create a device in the IBM Watson IoT platform and get the device credentials.	5	High	S Arunadevi P Nandhakumar P Shivani M Azahagupandi
Sprint-2		US-1	Configure the connection security and create API keys that are used in the Node-RED service for accessing the IBM IoT Platform.	10	High	S Arunadevi P Nandhakumar P Shivani M Azahagupandi
Sprint-2		US-2	Create a Node-RED service.	10	High	S Arunadevi P Nandhakumar P Shivani M Azahagupandi
Sprint-3		US-1	Develop a python script to publish random sensor data such as Loadcell, IR sensor and GSM/GPS to the IBM IoT platform	7	High	S Arunadevi P Nandhakumar P Shivani M Azahagupandi
Sprint	**Functional Requirement (Epic)**	**User Story Number**	**User Story / Task**	**Story Points**	**Priority**	**Team Members**
Sprint-3		US-2	After developing python code, commands are received just print the statements which represent the control of the devices.	5	Medium	S Arunadevi P Nandhakumar P Shivani M Azahagupand
Sprint-3		US-3	Publish Data To The IBM Cloud	8	High	S Arunadevi P Nandhakumar P Shivani M Azahagupandi

Sprint-4		US-1	Create Web UI in Node- Red	10	High	S Arunadevi P Nandhakumar P Shivani M Azahagupandi
Sprint-4		US-2	Configure the Node-RED flow to receive data from the IBM IoT platform and also use Cloudant DB nodes to store the received sensor data in the cloudant DB	10	High	S Arunadevi P Nandhakumar P Shivani M Azahagupandi

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)

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

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