Project Planning Phase
Project Planning (Product Backlog, Sprint Planning, Stories, Storypoints)

Date	17 October 2022
Team ID	PNT2022TMID46185
Project Name	Project – Signs with Smart Connectivity for Better Road Safety
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	Preparation	USN-1	**Install the Python IDE.** Install the required python libraries: • Install Watson IoT Python SDK to connect to IBM Watson IoT Platform using python code: give the following command in command prompt: pip install wiotp-sdk Download the required files from the link Create a fast SMS service for sending the messages and getting the API	10	Medium	1.selvakumar 2.Ramkumar

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Preparation	USN-2	**Create An Account In OpenweatherMap Website** Using Open weather map we can get currentweather details of a location and integrate this with our project	5	Low	1.Vinith 2.Deepak
Sprint-1	Preparation	USN-3	**IBM Cloud Services** Need to have basic knowledge of the following cloud services: • IBM Watson IoT Platform • Node-RED Service	10	Medium	1.Hariharasudhan 2.Vinith
Sprint-2	Create And Configure IBM Cloud Services	USN-4	**Create IBM Watson IoT Platform And Device** • IBM Watson IoT platform acts as the mediator to connect the web application to IoT device, so create the IBM Watson IoT platform. • 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. • Configure the connection security and create API keys that are used in the Node-RED service for accessing the IBM IoT Platform.	12	High	Deepak

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Create And Configure IBM Cloud Services	USN-5	**Create Node-RED Service** To create a web application create a Node-RED service.	13	High	Hariharasudhan
Sprint-3	Develop The Python Script	USN-6	**Develop A Python Script** Create a code snippet using python to • Extract weather data from Open Weather Map using APIs • Send the extracted data to the cloud • Receive data from the cloud and view it in the python compiler	10	Medium	Selvakumar
Sprint-3	Develop The Python Script	USN-7	**Publish Data To The IBM Cloud** Python code is used to send random sensor data to the cloud and also to receive commands from the cloud. Below is the reference link provided for the python program to publish and subscribe from the IBM Watson IoT Platform. When the commands are received just print the statements which represent the control of the devices.	15	High	Ramkumar
Sprint-4	Develop A Web Application Using	USN-8	**Develop The Web Application Using Node-RED**	12	High	Vinith

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Node-RED Service.	USN-8	Configure the Node-RED flow to send data to the IBM IoT platform.			Ramkumar
Sprint-4	Develop A Web Application Using Node-RED Service.	USN-9	**Use Dashboard Nodes For Creating UI(Web App)** Create use dashboard nodes to visualize the data in graphical format.	13	High	Selvakumar

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	25	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	25	4 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	25	11 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	25	19 Nov 2022