PROJECT PLANNING PHASE

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

Date	17 October 2022
Team ID	PNT2022TMID47905
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 Platformusing python code: give the following command in commandprompt: pip install wiotp-sdk Download the required files Create a fast SMS service for sending the messages and getting the API	10	Medium	1.NaveenKumar 2.Surya Prakash

Sprint	Functional Requirement(Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Preparation	USN-2	**Create An Account in OpenweatherMapWebsite** Using Open weather map, we can get current weather details of a location andintegrate this with our project	5	Low	1.Ajith Raja 2.Jerome Idhaya Michael
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.NaveenKumar 2.Surya Prakash
	Create And Configure IBM Cloud Services	USN-4	**Create IBM Watson IoT Platform andDevice** • 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 tothe 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	Jerome Idhaya Michael

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	Ajith Raja
Sprint-3	Develop ThePython Script	USN-6	**Develop A Python Script** Create a code snippet using python to • Extract weather data fromOpen Weather Map usingAPIs • Send the extracted data to the cloud • Receive data from the cloud andview it in the python compiler	10	Medium	Naveen Kumar
Sprint-3	Develop ThePython 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 thepython program to publish and subscribe from the IBM Watson IoT Platform. When the commands are received just printthe statements which represent the control of the devices.	15	High	Surya Prakash
Sprint-4	Develop A Web Application Using	USN-8	Develop The Web Application Using Node-RED	12	High	Ajith Raja

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 datato the IBM IoT platform.			Surya Prakash
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	Naveen Kumar

Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date(Planned)	Story Points Completed (as onPlanned 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