

Project Planning Phase

Project Planning (Milestone & Activity List)

Date	17 October 2022
Team ID	PNT2022TMID41539
Project Name	Project – Signs with Smart Connectivity for Better Road Safety
Maximum Marks	8 Marks

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

Milestone number	Functional Requirement (Epic)	User Story Number	Activity	Story Points	Priority	Team Members
Sprint-1	Preparation	USN-1	<p>Install the Python IDE. Install the required python libraries:</p> <ul style="list-style-type: none"> • Install Watson IoT Python SDK to connect to IBM Watson IoT Platform using python code: <p>give the following command in command prompt: pip install wiotp-sdk</p> <p>Download the required files from the link</p> <p>Create a fast SMS service for sending the messages and getting the API</p>	10	Medium	1.Mugila R 2.Ishwariya P 3.Kalpana T 4.Shreein Fathima S

Milestone number	Functional Requirement (Epic)	User Story Number	Activity	Story Points	Priority	Team Members
Sprint-1	Preparation	USN-2	Create An Account In OpenweatherMap Website Using Openweathermap we can get current weather details of a location and integrate this with our project	5	Low	1.Mugila R 2.Ishwariya P 3.Kalpana T 4.Shreein Fathima S
Sprint-1	Preparation	USN-3	IBM Cloud Services Need to have basic knowledge of the following cloud services: <ul style="list-style-type: none"> • IBM Watson IoT Platform • Node-RED Service 	10	Medium	1.Mugila R 2.Ishwariya P 3.Kalpana T 4.Shreein Fathima S
Sprint-2	Create And Configure IBM Cloud Services	USN-4	Create IBM Watson IoT Platform And Device <ul style="list-style-type: none"> • 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	1.Mugila R 2.Ishwariya P 3.Kalpana T 4.Shreein Fathima S

Milestone number	Functional Requirement (Epic)	User Story Number	Activity	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	1.Mugila R 2.Ishwariya P 3.Kalpana T 4.Shreein Fathima S
Sprint-3	Develop The Python Script	USN-6	Develop A Python Script Create a code snippet using python to <ul style="list-style-type: none"> • Extract weather data from OpenWeatherMap using APIs • Send the extracted data to the cloud • Receive data from the cloud and view it in the python compiler 	10	Medium	1.Mugila R 2.Ishwariya P 3.Kalpana T 4.Shreein Fathima S
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	1.Mugila R 2.Ishwariya P 3.Kalpana T 4.Shreein Fathima S
Sprint-4	Develop A Web Application Using	USN-8	Develop The Web Application Using Node-RED	12	High	1.Mugila R 2.Ishwariya P 3.Kalpana T

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	Node-RED Service.		Configure the Node-RED flow to send data to the IBM IoT platform.			4.Shreein Fathima S
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	1.Mugila R 2.Ishwariya P 3.Kalpana T 4.Shreein Fathima S