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	**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 Git Repo Submission Link: https://github.com/IBM-EPBL/IBM-Project-18272-1659682357/blob/main/Prerequisites/Software.pdf	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 Git Repo Submission Link: https://github.com/IBM-EPBL/IBM-Project-18272-1659682357/blob/main/Prerequisites/Create%20An%20Account%20In%20OpenweatherMap%20Website.pdf **Create An Account In MIT App inventor Website** Create an account in MIT app inventor website and download MIT AI2 companion app in mobile.	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: • IBM Watson IoT Platform • Node-RED Service Git Repo Submission Link: https://github.com/IBM-EPBL/IBM-Project-18272-1659682357/blob/main/Prerequisites/IBM%20Cloud%20Services.pdf Sprint-1 Link: https://github.com/IBM-EPBL/IBM-Project-18272-1659682357/blob/main/Project%20Development%20Phase/Sprint-1/Sprint-1.pdf	5	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-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. Git Repo Submission Link: https://github.com/IBM-EPBL/IBM-Project-18272-1659682357/blob/main/Create%20And%20Configure%20IBM%20Cloud%20Services/Create%20IBM%20Watson%20IoT%20Platform%20And%20Device.pdf	10	High	1.Mugila R 2.Ishwariya P 3.Kalpana T 4.Shreein Fathima S
Sprint-2	Create And Configure IBM Cloud Services	USN-5	**Create Node-RED Service** To create a web application create a Node-RED service. Git Repo Submission Link: https://github.com/IBM-EPBL/IBM-Project-18272-1659682357/blob/main/Create%20And%20Configure%20IBM%20Cloud%20Services/Create%20Node-RED%20Service.pdf Sprint-2 Link: https://github.com/IBM-EPBL/IBM-Project-18272-1659682357/blob/main/Project%20Development%20Phase/Sprint-2/Sprint-2.pdf	10	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-3	Develop The Python Script	USN-6	**Develop A Python Script** Create a code snippet using python to • 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 Git Repo Submission Link: https://github.com/IBM-EPBL/IBM-Project-18272-1659682357/blob/main/Develop%20The%20Python%20Script/Develop%20A%20Python%20Script.pdf	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. When the commands are received just print the statements which represent the control of the devices. Git Repo Submission Link: https://github.com/IBM-EPBL/IBM-Project-18272-1659682357/tree/main/Develop%20The%20Python%20Script/Publish%20Data%20To%20The%20IBM%20Cloud Sprint-3 Link: https://github.com/IBM-EPBL/IBM-Project-18272-1659682357/blob/main/Project%20Development%20Phase/Sprint-3/Sprint-3.pdf	10	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-4	Develop A Web Application Using Node-RED Service.	USN-8	**Develop The Web Application Using Node-RED** Configure the Node-RED flow to send data to the IBM IoT platform. Git Repo Submission Link: https://github.com/IBM-EPBL/IBM-Project-18272-1659682357/blob/main/Develop%20A%20Web%20Application%20Using%20Node-RED%20Service/Develop%20The%20Web%20Application%20Using%20Node-RED/Create%20Node%20Red%20Flow%20To%20Send%20Data%20To%20Device.pdf	5	High	1.Mugila R 2.Ishwariya P 3.Kalpana T 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. Git Repo Submission Link: https://github.com/IBM-EPBL/IBM-Project-18272-1659682357/blob/main/Develop%20A%20Web%20Application%20Using%20Node-RED%20Service/Use%20Dashboard%20Nodes%20For%20Creating%20UI(Web%20App)/UI%20Nodes%20Installation.pdf	5	High	1.Mugila R 2.Ishwariya P 3.Kalpana T 4.Shreein Fathima S
Sprint-4	Develop A Mobile Application Using MIT App inventer.	USN-10	**Use MIT App For Creating Mobile application** Buidl the app. Using MIT AI2 companion(in mobile) by connecting it with the app builded(click connect in app inventor then click AI companion and scan the QR code in mobile companion- it will be connected) we can see the Road Safety informations in mobile. Sprint-4 link: https://github.com/IBM-EPBL/IBM-Project-18272-1659682357/blob/main/Project%20Development%20Phase/Sprint-4/Sprint-4.pdf	10	High	1.Mugila R 2.Ishwariya P 3.Kalpana T 4.Shreein Fathima S