

Project Planning Phase

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

Date	11 November 2022
Team ID	PNT2022TMID37828
Project Name	Project - Smart Solutions For Railways
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						
Sprint-1	IBM Cloud Service	USN-1	Create the IBM Cloud services which are being used in this project.	2	Medium	PREM KUMAR R MOHAMED ISMAIL P M H VISHAL S SHEIK MOHAIDEEN R SOURAV SARDAR
Sprint-1	Software	USN-2	Installation of python IDLE along with the libraries such as wiotp-sdk, ibmcloudant, opencv-python and pyzbar	6	High	PREM KUMAR R MOHAMED ISMAIL P M H SHEIK MOHAIDEEN R
Sprint-1	Create IBM Watson IOT platform	USN-3	IBM Watson IOT platform acts as the mediator To connect the web application to IOT devices, So create the IBM Watson platform.	6	High	PREM KUMAR R VISHAL S SOURAV SARDAR
Sprint-1	Creating Device in IBM Watson IOT platform	USN-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..	6	High	PREM KUMAR R VISHAL S

Sprint-2						
Sprint-2	API keys for Node RED Service	USN-1	Configure the connection security and create API keys that are used in the Node-RED Services for accessing the IBM IOT Platform..	6	High	PREM KUMAR R MOHAMED ISMAIL P M H VISHAL S SOURAV SARDAR
Sprint-2	Node RED App	USN-2	Create a Node-RED service.	6	High	PREM KUMAR R VISHAL S SHEIK MOHAIDEEN R SOURAV SARDAR
Sprint-3						
Sprint-3	Python Code	USN-1	Develop a Python Script for publishing the Location (latitude and longitude) data to the IBM IOT Platform and the other python code To read the QR Code and fetch the data from Cloudant DB.	6	High	PREM KUMAR R VISHAL S SHEIK MOHAIDEEN R
Sprint-4						
Sprint-4	Web Application	USN-1	Develop the web application using Node-RED	6	High	PREM KUMAR R MOHAMED ISMAIL P M H VISHAL S SHEIK MOHAIDEEN R
Sprint-4	Testing	USN-2	Testing the Web UI by giving the required inputs	6	High	PREM KUMAR R MOHAMED ISMAIL P M H VISHAL S SOURAV SARDAR

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	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

Velocity :

Sprint 1 Average Velocity:

$$\text{Average Velocity} = 20/6 = 3.3$$

Sprint 2 Average Velocity:

$$\text{Average Velocity} = 20/6 = 3.3$$

Sprint 3 Average Velocity:

$$\text{Average Velocity} = 20/6 = 3.3$$

Sprint 4 Average Velocity:

$$\text{Average Velocity} = 20/6 = 3.3$$

Burndown Chart:

burndown chart

