Project Planning Phase

Date	14 November 2022
Team ID	PNT2022TMID20032
Project Name	Signs with smart connectivity for better road safety
Maximum Marks	8 Marks

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

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1		US-1	Create the IBM Cloud services which are being used in this project.	6	High	
						Seenuvasan V
						Pradeep R
						Shriraam B
						Seshadri KS
Sprint-1		US-2	Configure the IBM Cloud services which are	4	Medium	Seenuvasan V
			being used in completing this project.			Pradeep R
						Shriraam B
						Seshadri KS
Sprint-1		US-3	IBM Watson IoT platform acts as the mediator	5	Medium	Seenuvasan V
			to connect the web application to IoT devices,			Pradeep R
			so create the IBM Watson IoT platform.			Shriraam B
						Seshadri KS

Sprint-1		US-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.	5	High	Seenuvasan V Pradeep R Shriraam B Seshadri KS
Sprint-2		US-1	Configure the connection security and create API keys that are used in the Node-RED service for accessing the IBM IoT Platform.	10	High	Seenuvasan V Pradeep R Shriraam B Seshadri KS
Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2		US-2	Create a Node-RED service.	10	High	Seenuvasan V Pradeep R Shriraam B Seshadri KS
Sprint-3		US-1	Develop a python script to publish random sensor data such as temperature, humidity,rain to the IBM IoT platform	7	High	Seenuvasan V Pradeep R Shriraam B Seshadri KS
Sprint-3		US-2	After developing python code, commands are received just print the statements which represent the control of the devices.	5	Medium	Seenuvasan V Pradeep R Shriraam B Seshadri KS
Sprint-3		US-3	Publish Data to The IBM Cloud	8	High	Seenuvasan V Pradeep R Shriraam B Seshadri KS

Sprint-4	US-1	Create Web UI in Node- Red	10	High	Seenuvasan V
					Pradeep R
					Shriraam B
					Seshadri KS
Sprint-4	US-2	Configure the Node-RED flow to receive data	10	High	Seenuvasan V
		from the IBM IoT platform and also use Cloudant DB nodes to store the received			Pradeep R
		sensor data in the cloudant DB			Shriraam B
					Seshadri KS

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:

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

Burndown Chart:

A burndown chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burndown charts can be applied to any project containing measurable progress overtime.

Burndown chart:

