Project Planning Phase

Date	28 october2022
Team ID	PNT2022TMID39434
Project Name	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		US-1	Create IBM cloud services.	6	High	Karunanithi M Shamkumar S
Sprint-1		US-3	IBM Watson IoT platform acts as the mediator to connect the web application to IoT devices.	5	Medium	Haripriya U Raghul B
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	Karunanithi M Shamkumar S
Sprint-2		US-1	Configure open weather map services.	7	High	Raghul B Haripriya U
Sprint-2		US-2	Configure the connection security and create API keys that are used in the Node-RED service for accessing the IBM IoT Platform.	7	Medium	Raghul B Shamkumar S
Sprint-2		US-3	Create Node-red services.	5	HIgh	Karunanithi M Haripriya U
Sprint-3		US-1	Develop a python script to publish random sensor data such as temperature, humidity,rain to the IBM IoT platform	7	Medium	Karunanithi M Raghul B
Sprint-3		US-2	After developing python code, commands are received just print the statements which represent the control of the devices.	5	High	Haripriya U Shamkumar S

Sprint		US-3	Publish Data to The IBM Cloud	8		Karunanithi M Haripriya U
Sprint 3						
Sprint-4		US-1	Create Web UI in Node- Red	10	High	Karunanithi M Haripriya U Raghul B Shamkumar S
Sprint-4		US-2	Configure the Node-RED flow to receive data from the IBM IoT platform and also use Cloudant DB nodes to store the received sensor data in the cloudant DB	10	High	Karunanithi M Haripriya U Raghul B Shamkumar S

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.