Project Planning Phase

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

Date	27 October 2022
Team ID	PNT2022TMID11775
Project Name	Industry specific intelligent fire management system
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	Registration (Mobileuser)	USN-1	Being a user, one can register the application by entering email id, password and confirming the credentials.	2	Low	Vinitha Shree S Subashree S
Sprint-1	Login (Mobile user)	USN-2	Using the login credentials , I can logininto the application.	3	High	Vinitha Shree S Nandhini S
Sprint-2	Dashboard (Mobile user)	USN-3	By entering correct password, I could access the dashboard.	1	Medium	Nagapriya M Subashree S
Sprint 2	Software	USN-3	Creation of specific devices in the IBM WatsonIoT, and workflow using Node-Red.	2	Low	Nagapriya M Nandhini S
Sprint-3	Node red	USN-6	Sending the data from the ibm Watson to the node-red for further process the data	3	High	Nagapriya M Vinitha Shree S
Sprint-3	Alert message (Mobile user)	USN-4	The user can get alert messages and notifications regarding smoke and temperature parameters.	3	High	Vinitha Shree S Nandhini S
Sprint-4	Data storage (Mobile	USN-5	As a user, I will able to store parameter values.	2	High	Nagapriya M Subashree S

	user)					
Sprint-4	Checking (Mobile &web user)	USN-6	As a user I can Test the system performance, for an emergency case, it is deployed and Ican use the system 24/7.	8	High	Subashree S Vinitha Shree S

Sprint-1	Login (web user)	USN-7	As a user, I can log into the application by entering email & password	3	High	Nandhini S Subashree S
Sprint-1	Dashboard (webuser)	USN-8	I could access the dashboard.	3	Medium	Nandhini S Vinitha Shree S
Sprint-2	Sending Data to the ibm Dot platform	USN-5	Sending the data of the sensor form the microcontroller to the IBM Watson Dot platform	1	Medium	Subashree S Nagapriya M
Sprint-3	Alert message (webuser)	USN-9	As a user, I can get alert messages and notifications regarding smoke and temperatureparameters.	5	High	Nagapriya M Nandhini S
Sprint-4	Monitoring the environment	USN 1	User can monitor the situation of the environment from a dashboard that displays sensor information about the environment	1	Medium	Nagapriya M Vinitha Shree S
Sprint-4	Checking (Mobile &web user)	USN-11	As a user, I can check whether the system correctly detects the fire and gas, and does italerts the user, also whether the fire or smoke has been put down or not.	8	High	Subashree S Nagapriya M

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 burn down 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, burn down charts can be applied to any project containing measurable progress over time.