Project Planning Phase

Project Planning

Date	15 NOVEMBER 2022
Team ID	PNT2022TMI50097
Project Name	Project - 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 Sensing	USN-1	Sensing the environment using the sensors.	3	High	Sneha k
Operating	USN-2	Turning on the exhaust fan as well as the fire sprinkler system in case of fire and gas leakage.	3	Medium	Ramya R
Sprint-2 Sending collected data to the IBM Watson	USN-3	Sending the data of the Sensors to the IBM Watson.	3	High	Santhiya V

Sprint Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Registration	USN-4	Entering my email and password to verify authentication process.	3	High	Thanalakshmi M
Sprint-3 Storing of sensor data	USN-5	Storing in Cloud ant database.	2	Medium	Sneha k
Node red	USN-6	Sending the data from the IBM Watson to the Node red.	3	High	Vibin T
Web UI	USN-7	Monitors the situation of the environment which displays sensor information.	1	Low	Santhiya V

Sprint-4 Fast SMS Service	USN-8	Use Fast SMS to Send alert message once the parameters like temperature, flame and gas sensor readings goes beyond the threshold value	3	High	Thanalakshmi M
Turn ON/OFF the actuators	USN-9	Users can turn off the Exhaust fan as well as the sprinkler system If needed in that Situation.	2	Medium	Sneha k

Sprint Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Testing	USN-10	Testing of project and Final Deliverables.	1	Low	Ramya R

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	6	6 Days	24 Oct 2022	29 Oct 2022	6	29 Oct 2022
Sprint-2	6	6 Days	31 Oct 2022	05 Nov 2022	6	05 Nov 2022

Sprint-3 6 6 Days 07 Nov 2022 12 Nov 2022 6 12 Nov 2022

Duration Sprint Start Date Sprint   Planned End Date)
End Date (Planned)   Sprint Release Date (Actual)
Story Points Completed (as on

Sprint Total Story Points

Sprint-4 6 6 Days 14 Nov 2022 19 Nov 2022 6 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)

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

AV = 6/6=1

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