Project Planning Phase

Project Planning

Domain	IOT
Team ID	PNT2022TMID29501
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	Use the sensors to sense the surroundings.	3	High	ARAVINDHAN G RIYAZ A R VIKRAM V A SRINIVASAN K
	Operating	USN-2	Activating the fire sprinkler system and exhaust fan in case of a fire	3	Medium	ARAVINDHAN G RIYAZ A R VIKRAM V A SRINIVASAN K

Sprint-2	Sending collected data to the IBM Watson platform	USN-3	Sending IBM Watson the data from the sensors.	3	High	ARAVINDHAN G RIYAZ A R VIKRAM V A SRINIVASAN K

Sprint	**Functional Requirement (Epic)**	**User Story Number**	**User Story / Task**	**Story Points**	**Priority**	**Team Members**
	Node red	USN-4	Data transmission from IBM Watson to Node Red.	3	High	ARAVINDHAN G RIYAZ A R VIKRAM V A SRINIVASAN K
Sprint-3	Storing of sensor data	USN-5	Keeping data in a Cloudant database.	2	Medium	ARAVINDHAN G RIYAZ A R VIKRAM V A SRINIVASAN K
	Registration	USN-6	My email and password are being entered to confirm the authentication process.	1	Medium	ARAVINDHAN G RIYAZ A R VIKRAM V A SRINIVASAN K
	Web UI	USN-7	Keeps track of environmental conditions and presents sensor data.	3	High	ARAVINDHAN G RIYAZ A R VIKRAM V A SRINIVASAN K

Sprint-4	Fast SMS Service	USN-8	When parameters like temperature, flame, and gas sensor readings exceed the threshold value, use Fast SMS to send an alarm message.	3	High	ARAVINDHAN G RIYAZ A R VIKRAM V A SRINIVASAN K
	Turn ON/OFF the actuators	USN-9	In that case, the user has the option to turn off both the sprinkler system and the exhaust fan.	2	Medium	ARAVINDHAN G RIYAZ A R VIKRAM V A SRINIVASAN K
Sprint	**Functional Requirement (Epic)**	**User Story Number**	**User Story / Task**	**Story Points**	**Priority**	**Team Members**
	Testing	USN-10	Project and final deliverables testing.	1	Low	ARAVINDHAN G RIYAZ A R VIKRAM V A SRINIVASAN K

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	13 NOV 2022	19 NOV 2022	6	19 NOV 2022
Sprint-2	6	6 Days	13 NOV 2022	19 NOV 2022	6	19 NOV 2022
Sprint-3	6	6 Days	13 NOV 2022	19 NOV 2022	6	19 NOV 2022
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-4	6	6 Days	13 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)

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