Project Planning Phase

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

Date	31 October 2022
Team ID	PNT2022TMID51665
Project Name	Project – Industry Specific Intelligent Fire Management System
Maximum Marks	8 Marks

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

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Team Members
Sprint-1	Assembling	USN-1	As a user, I must position the sensors in the appropriate location.	I have access to my sensor triggers	High	
Sprint-1		USN-2	As a user, I must test my hardware to ensure that it is operational.	I can use the serial monitor to keep track of all sensor values.	High	
Sprint-2	User Registration	USN-3	As a user, I can create user accounts for the model's essential software.	I can sign up and utilize user Login to access the dashboard.	Medium	
Sprint-1		USN-4	As a user, I can verify that notifications and SMS are delivered properly	I can verify the alerts via Fast2SMS	High	
Sprint-1	Cloud Monitoring	USN-5	As a user, I can keep track on how long data is kept in IBM Cloudant	I can constantly monitor and obtain sensor data.	High	

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	28 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	03 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)

$$\mathbf{AV} = \frac{\boldsymbol{Velocity}}{\boldsymbol{Sprint\ Duration}} = \frac{\mathbf{20}}{\mathbf{6}} = \mathbf{3.33}$$

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.