Project Planning Phase

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

Date	10 NOVEMBER 2022
Team ID	PNT2022TMID06114
Project Name	Industry Intelligent Fire ManagementSystem
Maximum Marks	8 Marks

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

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Thangapandi S Thowshikan PK Mohammed Irshak Subramji
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Thangapandi S Thowshikan PK Mohammed Irshak Subramji S
Sprint-2		USN-3	As a user, I can register for the application through Facebook	2	Low	Thangapandi S Thowshikan PK Mohammed Irshak Subramji S
Sprint-1		USN-4	As a user, I can register for the application through Gmail	2	Medium	Thangapandi S Thowshikan PK Mohammed Irshak Subramji S
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Thangapandi S Thowshikan PK Mohammed Irshak Subramji S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint 1	Objective	USN-6	As a system, the fire sensor should detect the fire	8	High	Thangapandi S Thowshikan PK Mohammed Irshak Subramji S
Sprint 1	Features	USN-7	As a system, the fire sensor value should be displayed in a LED screen	2	Low	Thangapandi S Thowshikan PK Mohammed Irshak Subramji S
Sprint 1	Features	USN-8	As a system, as soon as the detected fire reaches the threshold level, the red color LED should be turned ON	5	High	Thangapandi S Thowshikan PK Mohammed Irshak Subramji S
Sprint 1	Features	USN-9	As a system, as soon as the detected fire reaches the threshold level, the siren should be turned ON	5	High	Thangapandi S Thowshikan PK Mohammed Irshak Subramji S
Sprint 2	Focus	USN-10	As a system, it should send the location where the fire is detected	8	High	Thangapandi S Thowshikan PK Mohammed Irshak Subramji S
Sprint 2	Focus	USN-11	As a system, it should also send the alerting SMS to the registered phone number	2	Low	Thangapandi S Thowshikan PK Mohammed Irshak Subramji S
Sprint 2	Features	USN-12	As a system, the fire alarm should detect automatically when the fire accident is held	5	Medium	Thangapandi S Thowshikan PK Mohammed Irshak Subramji S
Sprint 2	Features	USN-13	As a system, it will indicate the fire accident is closed in the LCD screen and send SMS to the registered mobile number	5	Medium	Thangapandi S Thowshikan PK Mohammed Irshak Subramji S
Sprint 3	Data transfer	USN-14	As a program, it should retrieve the API key of the IBM cloud to send the details of the system	2	Low	Thangapandi S Thowshikan PK Mohammed Irshak Subramji S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint 3	Data Transfer	USN -15	As a cloud system, it should send the data of the sensor values along with latitudes and longitudes to the IBM cloud	5	Medium	Thangapandi S Thowshikan PK Mohammed Irshak Subramji S
Sprint 3	Data transfer	USN-16	As a cloud system, the IBM cloud should send the data to Node-red	2	Medium	Thangapandi S Thowshikan PK Mohammed Irshak Subramji S
Sprint 3	Data transfer	USN-17	As a system, it should collect the data from the Node-red and give it to the backend of the MIT app	3	Medium	Thangapandi S Thowshikan PK Mohammed Irshak Subramji S
Sprint 3	Data Transfer	USN-18	As an application, it should display the details of the temperature level and other detail to the user through the frontend of the MIT app.	8	High	Thangapandi S Thowshikan PK Mohammed Irshak Subramji S
Sprint 4	Registration	USN-19	A a user, I must first register my email and mobile number in the website	2	High	Thangapandi S Thowshikan PK Mohammed Irshak Subramji S
Sprint 4	Registration	USN-20	As a user, I must receive confirmation mail and SMS on registration	2	Medium	Thangapandi S Thowshikan PK Mohammed Irshak Subramji S
Sprint 4	Login	USN-21	As a user, I can login into the web application through email and pasword	3	High	Thangapandi S Thowshikan PK Mohammed Irshak Subramji S
Sprint 4	Dashboard	USN-22	As a user, I can access the dashboard and make use of available resources	2	Medium	Thangapandi S Thowshikan PK Mohammed Irshak Subramji S
Sprint 4	Focus	USN-23	As a user, I must receive an SMS once the fire is detected	5	High	Thangapandi S Thowshikan PK Mohammed Irshak Subramji S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint 4	Allocation	USN-24	As an admin, I must receive information about the fire accident along with location and share exact location and route to the person	3	High	Thangapandi S Thowshikan PK Mohammed Irshak Subramji S
Sprint 4	Allocation	USN-25	As an admin, I must allot particular person to look after the fire accident in a particular location	3	High	Thangapandi S Thowshikan PK Mohammed Irshak Subramji 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)

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