

## Project Planning Phase

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

Date	04 November 2022
Team ID	PNT2022TMID42571
Project Name	Project - Industry Specific Intelligent Fire Management System
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	Login	USN-1	As a admin, I can log into the application by entering username & password	4	Medium	Boomeshwaran V
Sprint 1		USN-2	When the admin, doesn't enter the username it display an error message popup	4	Medium	Boomeshwaran V
Sprint 1		USN-3	When the admin, doesn't enter the password it displays an error message popup	4	Medium	Boomeshwaran V
Sprint 1		USN-4	When the admin, enters the invalid credentials it displays an error popup	4	Medium	Boomeshwaran V
Sprint 1		USN-5	When the admin enter the correct username and password it redirects to the dashboard	4	High	Boomeshwaran V
Sprint 2	Creating Device	USN-1	Creating device in IBM IOT Watson Platform	10	High	Chilakam Bindu Reddy
Sprint 2	Python Code	USN-2	Developing a python script to publish data to ibm cloud	10	High	Chilakam Bindu Reddy
Sprint 3	Dashboard	USN-1	Creating a node red dashboard	4	Medium	Danaendraraj R
Sprint 3		USN-2	Connecting the node red dashboard and ibm Watson Platform	5	High	Danaendraraj R

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint 3	IBM Watson IOT	USN-3	Creating a Registered Form in node red	6	High	Danaendraraj R
Sprint 3		USN-4	Registering the user to get alerts	6	High	Danaendraraj R
Sprint-4	Monitoring	USN-1	As a admin, I can monitor the sensor data continuously in the dashboard	2	Medium	Gayam Naveena
Sprint 4	Alerts	USN-2	Retrieving the data from cloudant and send alerts if the values cross the threshold values	10	High	Gayam Naveena
Sprint 4	Python	USN-3	Python script for sending alerts using fast2sms	8	High	Gayam Naveena

#### 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	4 Days	31 Oct 2022	3 Nov 2022	20	2 Nov 2022
Sprint-2	20	5 Days	04 Nov 2022	08 Nov 2022	20	7 Nov 2022
Sprint-3	20	5 Days	09 Nov 2022	13 Nov 2022	20	13 Nov 2022
Sprint-4	20	4 Days	14 Nov 2022	17 Nov 2022	20	17 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)

Sprint 1=AV=Sprint Duration/velocity=20/4=5

Sprint 2=AV=Sprint Duration/velocity=20/5=4

Sprint 3=AV=Sprint Duration/velocity=20/5=4

Sprint 4=AV=Sprint Duration/velocity=20/4=5

#### 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.

<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>

<https://www.atlassian.com/agile/tutorials/burndown-charts>



Reference:

<https://www.atlassian.com/agile/project-management>

<https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software>

<https://www.atlassian.com/agile/tutorials/epics>

<https://www.atlassian.com/agile/tutorials/sprints>

<https://www.atlassian.com/agile/project-management/estimation>

<https://www.atlassian.com/agile/tutorials/burndown-charts>