

Project Planning Phase

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

Team ID	PNT2022TMID29941
Project Name	Industry Specific Intelligent Fire Management System

Product Backlog , Sprint Schedule and Estimation :

Use the below template to create product backlog and sprint schedule

Sprint	Functional requirements (Epic)	User Story Number	User story / Task	Story Point	Priority	Team members
Sprint – 1	Simulation Software	USN – 1	Using WOKWI, connect temperature, flame, gas sensors to ARDUINO with python scrip	2	High	Divya , Kiruthika , Madhumitha , Srikarthiskeyan
Sprint – 2	Cloud Software	USN – 2	Create device in the IBM Watson IoT platform, and link it to Node-Red	2	High	Divya , Kiruthika , Madhumitha , Srikarthiskeyan
Sprint – 3	MIT app inventer	USN – 3	Develop a mobile application using MIT App inventer	2	High	Divya , Kiruthika , Madhumitha , Srikarthiskeyan
Sprint – 4	Linking	USN – 4	Link WOKWI, IBM Cloud and the developed App Application	2	High	Divya , Kiruthika , Madhumitha , Srikarthiskeyan
Sprint - 4	Dashboard	USN - 5	Design the modules and Test the Mobile Application	2	High	Divya , Kiruthika , Madhumitha , Srikarthiskeyan

Project Tracker , Velocity & Burndown Chart :

Sprint	Total Story Point	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 -m day sprint duration , and the velocity of the team . Let's calculate the team's average velocity (AV) per iteration unit (Story points per day).

$$AV = \text{Sprint Duration} / \text{Velocity} = 20 / 10 = 2$$

Burndown Chart:

A Burn down chart is a geographical 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>