

## Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID26287
Project Name	Emerging methods for early detection of forest fires
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	Building IBM Watson Assistant	USN-1	Downloading the data set and performing image preprocessing.	2	High	subbiah s, sridher s
Sprint-1		USN-2	The dataset should be made available in cloud .	1	Medium	Prabhakaran m, sabarinathan sp
Sprint-2	Modelling	USN-3	Developing a Model and verifying the accuracy.	2	High	Subbiah s, Prabhakaran m
Sprint-2		USN-4	Creating a secure database to store forest fire images.	2	Medium	Sridher s, sabarinathan sp
Sprint-3	User Interface and Testing	USN-5	Doing video processing of live camera and sending alert message.	1	High	Sridher s, Subbiah s
Sprint-3		USN-6	Users can access their dashboard and other details can be updated.	2	Low	Sabarinathan sp, Prabhakaran m

Sprint-4	Model Improvisation		The dataset should be increased in order to improve accuracy	2	High	Sridher s , sabarinathan sp
Sprint-4			The input image should have high resolution	1	Low	Subbia s
			Gain information about the shortcomings from the feedback provided and improve service	1	Low	Prabhakaran m

#### 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)

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

$$AV = \text{sprint duration} / \text{velocity} = 20 / 6 = 3.33$$

## 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.

