

## Project Planning Phase

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

Date	24 October, 2022
Team ID	31445-1660200428
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	Data Pre-Processing	USN-1	Data is unclean and contains a lot of invalid data and null values. These are removed	2	High	Prakashraj, Naresh, Theena
Sprint-1	Image Augmentation	USN-2	Images in the dataset are divided into different images by changing their size, and turned around various degrees for improve the learning of the model	1	High	Ilaiyaraja , Prakashraj
Sprint-2	Model Creation	USN-3	A Artificial Neural Network Model is Created	2	Medium	Naresh , Theena , Ilaiyaraja.
Sprint-1	Model Compilation	USN-4	After the pre-processing the model is compiled	2	Medium	Prakashraj , Naresh.
Sprint-1	Training Model	USN-5	A lot of data is fed to the model and it's trained against various cases	1	High	Theena , Ilaiyaraja
Sprint-2	Testing Model	USN-6	A random images is fed into the model to see if the accuracy is above 75%	2	High	Prakashraj , Naresh , Theena , Ilaiyaraja.

**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	3 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	8 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	16 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	23 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)

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

### 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.

