

## Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID37312
Project Name	Emerging Methods for Early Detection Of Forest Fire
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 Collection	USN-1	Collecting the appropriate data sets. It is the actual data set used to train the model for performing various actions.	5	Medium	Sonia, Rakshana, Sailakshmi, Padmavathy
Sprint-2	Image Processing	USN-2	In Image processing, the dataset images are to be preprocessed before giving it to the model. The first step is usually importing the libraries that will be needed in the program	5	High	Sailakshmi, Sonia
Sprint-3	Model Building	USN-3	Here, the model is built by initializing the model, adding convolution layer, adding pooling layer, flatten layer and full connection layer which include hidden layer.	3	High	Padmavathy, Sailakshmi
Sprint-3	Video Analysis	USN-4	OpenCV is an open-source library that provides us with the tools to perform almost any kind of image and video processing	2	High	Sonia, Rakshana
Sprint-4	Train CNN Model	USN-5	The Convolutional Neural Network model will be trained and processed.	5	High	Sailakshmi, Sonia, Rakshana, Padmavathy

**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	31 Oct 2022	20	31 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	9 Nov 2022	20	9 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	16 Nov 2022	20	16 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)

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

### **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>