Project Planning Phase

(Product Backlog, Sprint Planning, Stories, Story points)

Date	20 October 2022
Team ID	PNT2022TMID03630
Project Name	Emerging Methods for Early Detection of Forest Fires.
Team members	MEKALA BHARGAV,NARIBOYINA PAVAN SAI,MUNJURU BHARADWAJA,N PAVAN

Product Backlog, Sprint Schedule, and Estimation

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Team Members
Sprint - 1	Data collection and analysing weather conditions.	**USN-1**	**Collecting data from forest such as Humidity,temperature,wind and rain.Evaluating the data.**	**Data collected needs to be correct all the time for best prediction of environment changes**	**High**	**Mekala Bhargav, N.Pavan.**
Sprint - 2	Predicting and Analysing using plotting	USN-1	Plotting graph between loss and accuracy.	**Predictions are gathered and estimated level is achieved.**	**High**	**Mekala Bhargav, Munjuru Bharadwaja.**
Sprint - 3	**Fire detection using pictures.**	**USN-1**	**Fire needs to be detected with pictures so that we can confirm the working whether layers need to be added.**	**Pictures predicted with high accuracy if not training with more data and increasing layers.**	**High**	**Mekala Bhargav, Nariboyina Pavan Sai.**
Sprint - 4	**Detection of fire using camera.**	**USN-1**	**Video must be recorded along with fire detection. If fire is observed message and alert sound should be notified using**	**Twilio number should notify user as soon as fire is detected and every video frame must**	**High**	**Mekala Bhargav.**

			Twilio number to the registered mobile number.	**be checked for fire.**		

Project Tracker, Velocity & Burndown Chart:

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 October 2022**	**31 October 2022**	**20**	**30 October 2022**
Sprint - 2	**20**	**6 days**	**01 November 2022**	**10 November 2022**	**20**	**05 November 2022**
Sprint - 3	**20**	**6 days**	**11 November 2022**	**13 November 2022**	**20**	**10 November 2022**
Sprint - 4	**20**	**6 days**	**14 November 2022**	**19 November 2022**	**20**	**12 November 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)

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

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.