Project Planning Phase

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

Date	27 OCTOBER 2022
Team ID	PNT2022TNID08869
Project Name	Project-Early detection of forest fire using deep learning
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Download data set	USN-1	The data is downloaded from the Kaggle website and then the data set is classified into training and testing images.	10	High	Sree Nivethan P. Sri Radhesh Nag S. Gnana Sekar S. Sudharson S. Gowtham G.
Sprint-1	Image pre-processing	USN-1	In Image processing technique the first step is usually importing the libraries that will be needed in the program. Import Keras library from that library and import the ImageDataGenerator Library to your Python script. The next step is definig the arguments for the ImageDataGenerator . Here the arguments which we are given inside the image data generator class	10	High	Sree Nivethan P. Sri Radhesh Nag S. Gnana Sekar S. Sudharson S. Gowtham G.
			are, rescale, shear_range, rotation range of image, and zoom range that we can consider for images. The next step is applying the ImageDataGenerator arguments to the train and test dataset.			
Sprint-2	Training image	USN-2	In this training phase the ImageDataGenerator arguments is applied to the training images and the	20	High	Sree Nivethan P. Sri Radhesh Nag S. Gnana Sekar S.

			model is tested with several images and the model is saved.			Sudharson S. Gowtham G.
Sprint-3	Testing image	USN-3	In this testing phase the Image processing techniques is applied to the testing images and executed for prediction.	20	High	Sree Nivethan P. Sri Radhesh Nag S. Gnana Sekar S. Sudharson S. Gowtham G.
Sprint-4	Evaluation metrics and accuracy	USN-4	In this phase the result, prediction, accuracy, and performance of the project are tested.	20	High	Sree Nivethan P. Sri Radhesh Nag S. Gnana Sekar S. Sudharson S. Gowtham G.

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	25 Oct 2022	30 Oct 2022	20	30 Oct 2022
Sprint-2	20	6 Days	1 Oct 2022	07 Nov 2022	20	07 Nov 2022
Sprint-3	20	6 Days	09 Nov 2022	14 Nov 2022	20	14 Nov 2022
Sprint-4	20	6 Days	16 Nov 2022	21 Nov 2022	20	21 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).

$$AV = \text{Sprint Duration} / \text{velocity} = 20/6 = 3.33.$$