Project Planning Phase

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

Team ID	PNT2022TMID01103
Project Name	Project - Emerging Methods for Early Detection of Forest Fires

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	Collect the data	USN-1	As an Environmentalist, it is necessary to collect the data of the forest which includes temperature, Humidity, wind and rain of the forest.	5	High	Pranati
Sprint-1	Dataset	USN-2	Evaluate the Dataset	5	Medium	Sangeetha Priya
Sprint-2	Algorithm	USN-3	Identify algorithms that can be used for prediction	5	High	Monisha
Sprint-2	Accuracy	USN-4	Identify the accuracy of each Algorithms.	5	High	Preethi
Sprint-3	Accuracy and Precision	USN-5	Identify accuracy, precision, recall of each Algorithms	5	Medium	Monisha
Sprint-3	Project workflow	USN-6	Creating a Project Workflow Diagram	5	Medium	Preethi

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Output	USN-7	Outputs from each algorithm are obtained	5	Medium	Pranati
Sprint-4	Train and Test	USN-8	Train and Test the Model	5	High	Sangeetha Priya

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		
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022		
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022		
Sprint-4	20	6 Days	14 Nov 2022	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)

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

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.