Project Planning Phase

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

Date	**9 NOVEMBER 2022**
Team ID	**SHRIIBMS120220027543**
Project Name	**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	Registration	USN-1	As a user, I can register for the application by entering my email,password,and confirming my password.	20	High	SHRI VARSHA R
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application usage.	20	High	MITHRRA SREE RA
Sprint-1	Login	USN-3	As a user and a forest fire department staff, I will be provided with unique login ID and password.	20	High	VANITHA LAKSHMI M

Sprint-2	IBM Cloud Server	USN-4	The forest fire is detected using computer vision algorithm based cameras. These cameras continuously monitor the forest and the data is sent to the server.	20	High	VANITHA LAKSHMI M
Sprint-2		USN-5	I can fetch the details/data from the cloud server.	20	High	VEERALAKSHMI P
Sprint-3	Data Collection	USN-6	I must gather information about forest fires.	20	High	VEERALAKSHMI P
Sprint-3		USN-7	I must draft and point out the algorithms to predict the forest fire.	20	Medium	MITHRRA SREE RA
Sprint-4	Algorithm Implementation	USN-8	I must determine the precision of each algorithm.	20	High	SHRI VARSHA R
Sprint-4		USN-9	Extracting and assessing the Dataset	20	High	VANITHA LAKSHMI M
Sprint-4	Evaluating the Algorithm	USN-10	I must determine the precision, recall and accuracy of the algorithm.	20	High	MITHRRA SREE RA

Project Tracker, Velocity & Burn down Chart: (4 Marks)

Project Tracker:

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

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

Average velocity of sprint-1: AV = 17/8 = 2.125
Average velocity of sprint-2: AV = 11/4 = 2.75
Average velocity of sprint-3: AV = 22/5 = 5.5
Average velocity of sprint-4: AV = 15/4 = 3.75