

Project Planning Phase

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

Date	9 NOVEMBER 2022
Team ID	PNT2022TMID27543
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)

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

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: $AV = 15/4 = 3.75$