

Project Planning Phase

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

Date	11 NOVEMBER 2022
Team ID	PNT2022TMID17130
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	VASIKARAN K VASAN A
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application usage.	20	High	SUBASH S VIJAY S
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	VASIKARAN K

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	VASIKARAN K
Sprint-2		USN-5	I can fetch the details/data from the cloud server.	20	High	VASIKARAN K
Sprint-3	Data Collection	USN-6	I must gather information about forest fires.	20	High	VASAN A
Sprint-3		USN-7	I must draft and point out the algorithms to predict the forest fire.	20	Medium	SUBASH S VIJAY S
Sprint-4	Algorithm Implementation	USN-8	I must determine the precision of each algorithm.	20	High	VASAN A
Sprint-4		USN-9	Extracting and assessing the Dataset	20	High	VASIKARAN K
Sprint-4	Evaluating the Algorithm	USN-10	I must determine the precision, recall and accuracy of the algorithm.	20	High	SUBASH S VIJAY S

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	21 Oct 2022	27 Oct 2022	20	27 Oct 2022
Sprint-2	20	6 Days	28 Oct 2022	02 Nov 2022	20	02 Nov 2022
Sprint-3	20	6 Days	03 Nov 2022	09 Nov 2022	20	09 Nov 2022
Sprint-4	20	6 Days	10 Nov 2022	16 Nov 2022	20	16 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: $AV = 15/4 = 3.75$