

Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID08041
Project Name	Emerging methods for early detection of forest fires.
Maximum Marks	8 Marks

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 using government certified IDs.	6	High	Shiksha
Sprint-1	Authentication	USN-2	As a user, I will authenticate using ID credentials.	8	High	Sheshank, Surya
Sprint-1	Login	USN-3	With the credentials the user can login easily.	6	Low	Swathi Shree
Sprint-2	Training the system	USN-4	Model is trained with all different images of forest fires and in different dimensions.	10	Medium	Sheshank, Shiksha
Sprint-2	Implementation	USN-5	The model is implemented to check its working and accuracy.	10	Medium	Surya, Swathi Shree
Sprint-3	Detector	USN-6	Detects the forest fire with the trained model given by the cameras as a stream of images or videos.	10	High	Shiksha, Swathi Shree
Sprint-3	Alarm System	USN-7	Once the cross the threshold an alarm will be send to the respective user (forest department officer)	10	High	Sheshank, Surya
Sprint-4	Final Output	USN-8	On accurate detection of forest fire in early time the alarm messages are sent and necessary action to extinguish the fire is taken	10	High	Swathi Shree, Sheshank

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Controls and has overview of entire process	USN-9	The customer needs are checked and satisfied. Handle any sort of emergency and get it fixed.	5	Medium	Surya
Sprint-4	Database	USN-10	All the past datas are collected and stored for future reference.	5	Low	Shiksha

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	7 Days	24 Oct 2022	29 Oct 2022	20	30 Oct 2022
Sprint-2	20	7 Days	31 Oct 2022	05 Nov 2022	20	06 Nov 2022
Sprint-3	20	7 Days	07 Nov 2022	12 Nov 2022	20	13 Nov 2022
Sprint-4	20	7 Days	14 Nov 2022	19 Nov 2022	20	20 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(AV)= 20/7=2.85

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.

Projects / Forest Fire Detection / Reports

Sprint burndown chart

[How to read this report](#)

Sprint

Estimation field

FFD Sprint 1

Story points

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Date - 28 October 2022 - 31 October 2022

