

Project Planning Phase

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

Date	8 November 2022
Team ID	PNT2022TMID42615
Project Name	Natural Disaster Intensity Analysis and Classification using Artificial Intelligence
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	Collection of Dataset	USN-1	As a user, I can collect the dataset for monitoring and analyzing.	5	Medium	SreePoorna S Iyer, Suwethan M, Benisha M, Jothi S
Sprint-1	Home Page	USN-2	As a user, I want to know about the basics of frequently occurring disasters.	5	High	SreePoorna S Iyer, Suwethan M, Benisha M, Jothi S
Sprint-1	Intro Page	USN-3	As a user, I want to know about the introduction of disasters in particular areas.	5	High	SreePoorna S Iyer, Suwethan M, Benisha M, Jothi S
Sprint-1	Open WebCam	USN-4	As a user, I adapt the webcam to analyze and classify the disaster from video capturing.	5	High	SreePoorna S Iyer, Suwethan M, Benisha M, Jothi S
Sprint-2	Analysis of required phenomenon	USN-5	As a user, I can regulate certain factors influencing the action and report on past event analysis.	5	High	SreePoorna S Iyer, Suwethan M, Benisha M, Jothi S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Algorithm Selection	USN-6	As a user, I can choose the required algorithm for specific analysis.	5	Medium	SreePoorna S Iyer, Suwethan M, Benisha M, Jothi S
Sprint-2	Training and Testing	USN-7	As a user, I can train and test the model using the algorithm.	10	High	SreePoorna S Iyer, Suwethan M, Benisha M, Jothi S
Sprint-3	Detection and Analysis of data	USN-8	As a user, I can detect and visualize the data effectively.	10	High	SreePoorna S Iyer, Suwethan M, Benisha M, Jothi S
Sprint-3	Model Building	USN-9	As a user, I can build with web application	10	High	SreePoorna S Iyer, Suwethan M, Benisha M, Jothi S
Sprint-4	Integrate the web app with AI model	USN-11	As a user, I can use Flask app to use model easily through web app	10	High	SreePoorna S Iyer, Suwethan M, Benisha M, Jothi S
Sprint-4	Model Deployment	USN-12	As an administrator, I can deploy the AI model in IBM cloud.	10	High	SreePoorna S Iyer, Suwethan M, Benisha M, Jothi S

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	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)

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

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.

