

Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID34240
Project Name	Project - Natural Disasters Intensity Analysis and Classification using Artificial Intelligence
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, Registering into the product using a valid email address	5	High	Durga Praveena
Sprint-2	Registration	USN-2	As a user, Registering into the product using a valid username and password	3	medium	Brilliya Twinkle.T
Sprint-1	Authentication	USN-3	As a user , I adept to logging into the system with credentials	4	High	Priya Kumar
Sprint-2	Authentication	USN-4	As a user , I adept to logging into the system with OTP	2	High	Benila.J
Sprint-1	Designation of Region	USN-5	selecting the region of interest to be monitored and analysed	3	High	Durga Praveena Priya Kumar
Sprint-2	Analysis of Required Phenomenon	USN – 6	Regulating certain factors influencing the actions of the phenomenon	3	High	Benila.J Brilliya Twinkle.T
Sprint-2	Accumulation of required Data	USN – 7	Gathering data and detailed report on past event analysis	4	Medium	Benila.J
Sprint-4	Organizing Unstructured data	USN – 8	Organizing and reorienting the raw data into a refined data	3	Low	Durga Praveena Priya Kumar
Sprint-2	Algorithm selection	USN – 9	Choosing a required algorithm for specific analysis	2	High	Brilliya Twinkle T

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Prediction and analysis of data	USN – 10	Predicting and visualizing the data effectively	6	High	Benila.J Brilliya Twinkle T
Sprint-4	Report generation	USN – 11	Generating a clear and detailed report on product data analysis	3	High	Durga Praveena

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	12	6 days	24 Oct 2022	29 Oct 2022	12	30 Oct 2022
Sprint-2	14	6 days	31 Oct 2022	5 Nov 2022	14	6 Nov 2022
Sprint-3	6	6 days	07 Nov 2022	12 Nov 2022	6	8 Nov 2022
Sprint-4	6	6 days	14 Nov 2022	19 Nov 2022	6	20 Nov 2022

Velocity:

Sprint - 1

$$\begin{aligned}
 \text{Average Velocity} &= \text{Sprint duration} / \text{Velocity} \\
 &= 12 / 6 \\
 &= 2
 \end{aligned}$$

Sprint - 2

$$\begin{aligned}
 \text{Average Velocity} &= \text{Sprint duration} / \text{Velocity} \\
 &= 14 / 6 \\
 &= 2.3
 \end{aligned}$$

Sprint - 3

$$\begin{aligned}
 \text{Average Velocity} &= \text{Sprint duration} / \text{Velocity} \\
 &= 6 / 6
 \end{aligned}$$

$$= 1$$

Sprint - 4

$$\text{Average Velocity} = \text{Sprint duration} / \text{Velocity}$$

$$= 6 / 6$$

$$= 1$$

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.

An approximate work plan in burndown

