

## Project Planning Phase

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

Date	21 October 2022
Team ID	PNT2022TMID16547
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	Registration	USN – 1	As a user, registering into the product using a valid email address	5	High	
Sprint-2	Registration	USN – 2	As a user, registering into the product using a valid username and password	3	Medium	
Sprint-1	Authentication	USN – 3	As a user, I adept to logging into the system with credentials	4	High	
Sprint-2	Authentication	USN - 4	As a user, I adept to logging into the system with OTP	2	High	
Sprint-1	Designation of Region	USN – 5	selecting the region of interest to be monitored and analysed	3	High	
Sprint-2	Analysis of Required Phenomenon	USN – 6	Regulating certain factors influencing the actions of the phenomenon	3	High	

<b>Sprint</b>	<b>Functional Requirement (Epic)</b>	<b>User story Number</b>	<b>User story / Task</b>	<b>Story points</b>	<b>Priority</b>	<b>Team members</b>
<b>Sprint-2</b>	Accumulation of required Data	USN – 7	Gathering data and detailed report on past event analysis	3	Low	
<b>Sprint-4</b>	Organizing Unstructured data	USN – 8	Choosing a required algorithm for specific analysis	2	High	
<b>Sprint-2</b>	Algorithm selection	USN – 9	Choosing a required algorithm for specific analysis	6	High	
<b>Sprint-3</b>	Prediction and analysis of data	USN – 10	Predicting and visualizing the data effectively	36	High	
<b>Sprint-4</b>	Report generation	USN – 11	Generating a clear and detailed report on product data analysis	3	High	

### **Project Tracker, Velocity & Burndown Chart: (4 Marks)**

<b>Sprint</b>	<b>Total Story Points</b>	<b>Duration</b>	<b>Sprint Start Date</b>	<b>Sprint End Date (Planned)</b>	<b>Story Points Completed (as on Planned End Date)</b>	<b>Sprint Release Date (Actual)</b>
<b>Sprint-1</b>	12	6 days	24 Oct 2022	29 Oct 2022	12	30 Oct 2022
<b>Sprint-2</b>	14	6 days	31 Oct 2022	5 Nov 2022	14	6 Nov 2022
<b>Sprint-3</b>	6	6 days	07 Nov 2022	12 Nov 2022	6	8 Nov 2022
<b>Sprint-4</b>	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**

$$\begin{aligned}\text{Average Velocity} &= \text{Sprint duration} / \text{Velocity} \\ &= 6 / 6 \\ &= 1\end{aligned}$$

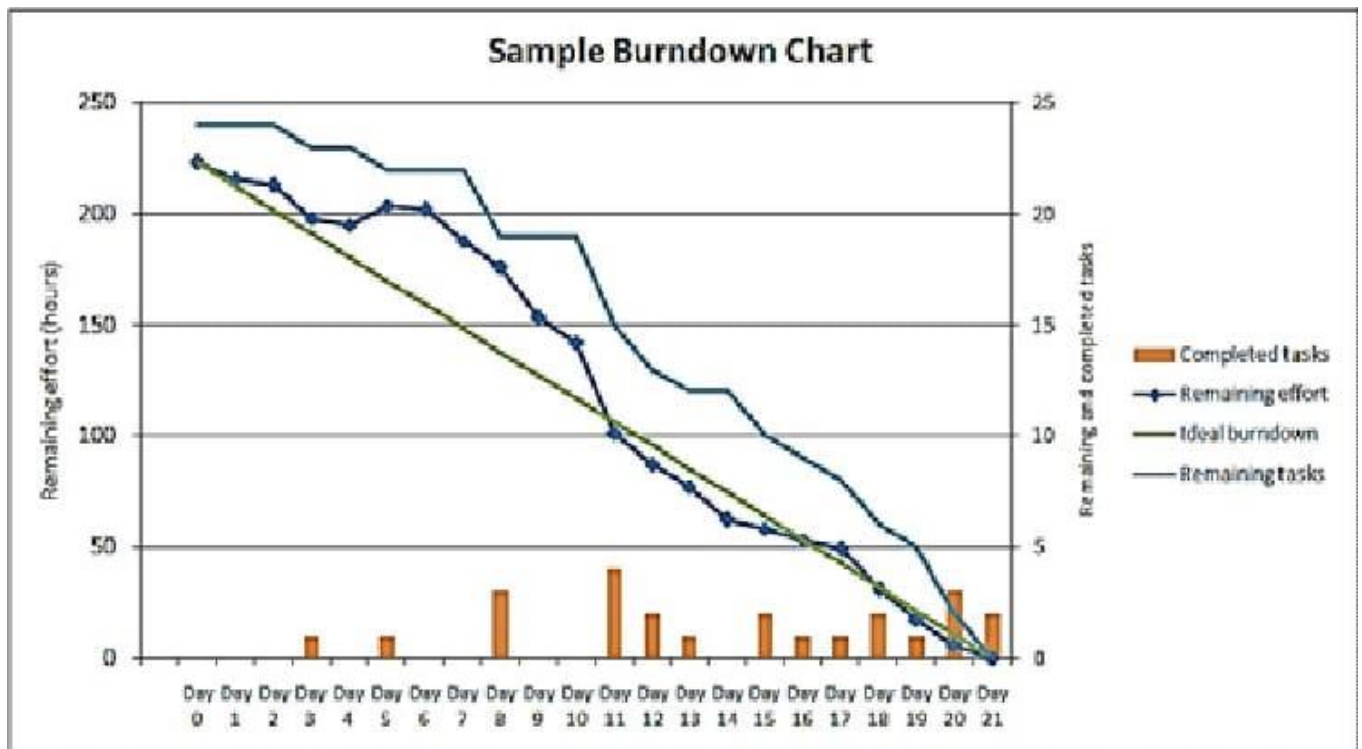
### **Sprint - 4**

$$\begin{aligned}\text{Average Velocity} &= \text{Sprint duration} / \text{Velocity} \\ &= 6 / 6 \\ &= 1\end{aligned}$$

## 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



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