Project Planning Phase

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

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| --- | --- |
| **Date** | **21 October 2022** |
| **Team ID** | **PNT2022TMID37801** |
| **Project name** | **Natural Disaster 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 | Rasika |
| Sprint-2 | Registration | USN – 2 | As a user, Registering into the product using a  valid username and password | 3 | Medium | Bharathi |
| Sprint-1 | Authentication | USN – 3 | As a user , I adept to logging into the system  with credentials | 4 | High | Rasika |
| Sprint-2 | Authentication | USN - 4 | As a user , I adept to logging into the system with OTP | 2 | High | Rasika |
| Sprint-1 | Designation of Region | USN – 5 | selecting the region of interest to be monitored and  analysed | 3 | High | Preethika  Rasika |
| Sprint-2 | Analysis of Required Phenomenon | USN – 6 | Regulating certain factors influencing the actions of the phenomenon | 3 | High | Preethika |
| Sprint-2 | Accumulation of required Data | USN – 7 | Gathering data and detailed report on past event analysis | 4 | Medium | Anandhakumar  Bharathi |
| Sprint-4 | Organizing Unstructured data | USN – 8 | Organizing and reorienting the raw data into a refined data | 3 | Low | Rasika  Preethika |
| Sprint-2 | Algorithm selection | USN – 9 | Choosing a required algorithm for specific analysis | 2 | High | Rasika  Bharathi  Anadhakumar |
| Sprint-3 | Prediction and analysis of data | USN – 10 | Predicting and visualizing the data effectively | 6 | High | Anadhakumar  Bharathi  Rasika  Preethika |
| Sprint-4 | Report generation | USN – 11 | Generating a clear and detailed report on product data analysis | 3 | High | Anadhakumar  Rasika |

**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**

Average Velocity = Sprint duration / Velocity

# = 12 / 6

**= 2**

**Sprint - 2**

Average Velocity = Sprint duration / Velocity

= 14 / 6

= 2.3

**Sprint - 3**

Average Velocity = Sprint duration / Velocity

= 6 / 6

= 1

**Sprint - 4**

Average Velocity = Sprint duration / 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**

