**Project Planning Phase**

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

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| --- | --- |
| Date | 23 November 2022 |
| Team ID | PNT2022TMID51308 |
| Project Name | Natural disasters intensity analysis and classification using artificial intelligence |
| Maximum Marks | 8 Marks |

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

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| --- | --- | --- | --- | --- | --- | --- |
| **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 entering my email, password, and confirming that. | 2 | Low | Karnan |
| Sprint-1 | Registration | USN-2 | As a user, I will receive confirmation email once I have registered for the application. | 3 | High | Sofiya |
| Sprint-1 | Login | USN-3 | As a user, I adapt to logging into the system with credentials. | 2 | Low | Femi |
| Sprint-1 | Designation of Region | USN-4 | As a user, I can collect the dataset and select the region of interest to be monitored and analysed. | 5 | Medium | Abishika |
| 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. | 4 | High | Femi Karnan |
| Sprint-2 | Algorithm selection | USN-6 | As a user, I can choose the required algorithm for specific analysis. | 4 | Medium | Sofiya Abishika |
| Sprint-2 | Training and Testing | USN-7 | As a user, I can train and test the model using the algorithm. | 4 | High | Karnan sofiya |
| Sprint-3 | Detection and analysis of data | USN-8 | As a user, I can detect and visualise the data effectively. | 4 | High | Femi |

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| --- | --- | --- | --- | --- | --- | --- |
| Sprint-3 | Model building | USN-9 | As a user, I can build with the web application. | 8 | High | Sofiya Abishika Karnan Femi |
| Sprint-4 | Report generation | USN-10 | As a user, I can generate detailed report on product data analysis. | 4 | High | Sofiya Femi |
| Sprint-4 | Model deployment | USN-11 | As an administrator, I can maintain third- party services. | **8** | High | Abishika Sofiya |

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

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| --- | --- | --- | --- | --- | --- | --- |
| **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 | 31 Oct 2022 | 20 | 31 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)

# Average velocity=Sprint duration / velocity=20/6=3

**Burndown Chart:**

A burn down chart is a graphical representation of work left to do versus time. It is often used in agil[e software development met](https://www.visual-paradigm.com/scrum/what-is-agile-software-development/)hodologies such [as Scrum. Ho](https://www.visual-paradigm.com/scrum/scrum-in-3-minutes/)wever, burn down charts can be applied to any project containing measurable progress over time.