**Project Planning Phase**

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

|  |  |
| --- | --- |
| Date | 31 October 2022 |
| Team ID | PNT2022TMID40687 |
| Project Name | Project – EXPLORATORY ANALYSIS OF RAINFALL DATA IN INDIA FOR AGRICULTURE. |
| 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 | Rainfall Prediction ML Model (Dataset) | USN-1 | Weather Dataset Collection, Data preprocessing, Data Visualization. | 5 | High | J.Abikrishnan ,G.Vadamalai |
| Sprint-1 |  | USN-2 | Train Model using Different machine learning Algorithms | 5 | High | M.Santhoshkumar,J.Nandhakumar |
| Sprint-1 |  | USN-3 | Test the model and give best | 10 | High | J.Abikrishnan,G.Vadamalai |
| Sprint-2 | Registration | USN-4 | As a user, they can register for the application through Gmail. Password is set up. | 5 | Medium | M.Santhoshkumar,J.Nandhakumar |
| Sprint-2 | Login | USN-5 | As a user, they can log into the application by entering email & password | 5 | Medium | G.Vadamalai,M.Santhoshkumar |
| Sprint-2 |  | USN-6 | Credentials should be used for multiple systems and verified | 4 | Medium | J.Abikrishnan,J.Nandhakumar |
| Sprint-2 | Dashboard | USN-7 | Attractive dashboard forecasting live weather | 6 | Low | M.Santhoshkumar,G.Vadamalai |
| Sprint-3 | Rainfall Prediction | USN-8 | User enter the location, temperature, humidity | 10 | High | J.Nandhakumar, G.Vadamalai |
| Sprint-3 |  | USN-9 | Predict the rainfall and display the result | 10 | High | JAbikrishnan,M.Santhoshkumar. |
| **Sprint** | **Functional**  **Requirement**  **(Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint-4 | Testing | USN-10 | Test the application | 10 | High | M.Santhoshkumar,G.Vadamalai |
| Sprint-4 | Deploy Model | USN-11 | Deploy the model in IBM cloud to make user friendly application | 10 | High | J.Nandhakumar,G.Vadamalai. |

**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 | 31Oct 2022 | 05 Nov 2022 | 20 | 05 Nov 2022 |
| Sprint-2 | 20 | 6 Days | 05 Nov 2022 | 10 Nov 2022 | 20 | 10 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 10 Nov 2022 | 15 Nov 2022 | 20 | 15 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 15 Nov 2022 | 21 Nov 2022 | 20 | 21 Nov 2022 |

**Velocity:**

Imagine we have a 5-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= Sprint duration/ Velocity = 20/5 =4

Total Average Velocity=4

**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 m](https://www.visual-paradigm.com/scrum/what-is-agile-software-development/)ethodologies such as [Scrum.](https://www.visual-paradigm.com/scrum/scrum-in-3-minutes/) However, burn down charts can be applied to any project containing measurable progress over time.

Tool : Jira Software

