**Project Planning Phase**

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

|  |  |
| --- | --- |
| Date | 18 October 2022 |
| Team ID | PNT2022TMID37002 |
| Project Name | Project – IOT smart farming application |
| Maximum Marks | 8 Marks |

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

Use the below template to create product backlog and sprint schedule

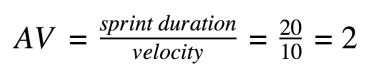
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint-1 | Registration  establishment | USN-1 | As a user, I can register for the application by entering my email, password, and confirming my password.  As a farmer I can use affordable app based solution in my agriculture. | 2 | High | Auna devi |
| Sprint-1 |  | USN-2 | As a user, I will receive confirmation email once I have registered for the application  I can detect soil parameters like moisture content, temperature, Ph, nutrient etc. | 1 | High | Suriyakala |
| Sprint-2 |  | USN-3 | As a user, I can register for the application through Facebook  With this solution farmers can improve their farming. | 2 | Low | stella |
| Sprint-1 |  | USN-4 | As a user, I can register for the application through Gmail  Provide remedies & alerts on soil deficiencies. | 2 | Medium | sindhu |
| Sprint-1 | Login | USN-5 | As a user, I can log into the application by entering email & password  As a farmer, With the help of solution we can plan which crop of take based on soil condition and plan quickly possible remedies for soil deficiencies. | 1 | High | suriyakala |

**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 | 24 Oct 2022 | 29 Oct 2022 | 20 | 29 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 30 | 30 oct 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 45 | 31 oct 2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 60 | 2 oct 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)



**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](https://www.visual-paradigm.com/scrum/what-is-agile-software-development/) methodologies 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.