**Project Planning Phase**

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

|  |  |
| --- | --- |
| Date | 15 November 2022 |
| Team ID | PNT2022TMID48513 |
| Project Name | Project - IOT based smart crop protection system 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 | Registration | USN-1 | As a user, I can register for the application by entering my email, password, and confirming my password. | 8 | High | Rasika  Parkavi  Nandhini  Chitra  Poovizhi |
| Sprint-1 |  | USN-2 | As a user, I will receive confirmation email once I have registered for the application | 7 | High | Rasika  Parkavi  Nandhini  Chitra  Poovizhi |
| Sprint-2 |  | USN-3 | As a user, I can register for the application through Facebook | 4 | Low | Rasika  Parkavi  Nandhini  Chitra  Poovizhi |
| Sprint-1 |  | USN-2 | As a user, I can register for the application through Gmail | 5 | Medium | Rasika  Parkavi  Nandhini  Chitra  Poovizhi |
| Sprint-1 | Login | USN-4 | As a user, I can log into the application by entering email & password | 9 | High | Rasika  Parkavi  Nandhini  Chitra  Poovizhi |
| Sprint-1 | Dashboard | USN-2 | As a user, I can log into the application by entering email & password and access all the resources and services available | 8 | High | Rasika  Parkavi  Nandhini  Chitra  Poovizhi |
| Sprint-2 | Login | USN-1 | As a weather data controller, I log into my profile and start monitoring the weather updates | 9 | High | Rasika  Parkavi  Nandhini  Chitra  Poovizhi |
| Sprint-3 | Dashboard | USN-1 | I receive all the information about weather from web from weather API. Whenever there is change in weather, corresponding updates are made on sign boards. | 7 | Medium | Rasika  Parkavi  Nandhini  Chitra  Poovizhi |
| Sprint-3 |  | USN-2 | As a image controller, I keep note of all the images received from various areas and detect traffic in that particular area. | 8 | High | Rasika  Parkavi  Nandhini  Chitra  Poovizhi |
| Sprint-4 |  | USN-4 | As a image controller, I keep note of all the images received from various areas and detect traffic in that particular area. | 9 | High | Rasika  Parkavi  Nandhini  Chitra  Poovizhi |  |  |  |  |  |  |

**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 | 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)

