**Project Planning Phase**

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

|  |  |
| --- | --- |
| Date | 18 October 2022 |
| Team ID | PNT2022TMID23566 |
| Project Name | Project – IoT based Smart Crop Protection System |
| 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 new user, I can register for the application by entering my email, password, and confirming my password. | 2 | High | 2 |
| Sprint-1 |  | USN-2 | As a user, I will receive confirmation email once I have registered for the application | 1 | Medium | 2 |
| Sprint-1 |  | USN-3 | As a new user, I can register for the application through Gmail | 2 | Medium | 1 |
| Sprint-1 | Login | USN-5 | As an existing user, I can log into the application by entering email & password | 1 | High | 1 |
| Sprint-2 | Dashboard | USN-6 | As a user,I can view the live monitoring of the field. | 2 | High | 4 |
| Sprint-2 |  | USN-7 | As a user,I can see the necessary parameters being detected. | 2 | Medium | 4 |
| Sprint-2 |  | USN-8 | As a user,I can check if the crops are properly protected and free from diseases. | 1 | Medium | 2 |
| Sprint-3 |  | USN-9 | As a user,I can check if any animals have intruded/intruding the field. | 2 | High | 4 |
| Sprint-3 |  | USN-10 | As a user,I can get the alert message regarding the intruding of animals | 2 | High | 4 |
| Sprint-4 | Administrator | USN-11 | Security maintenance and checking performance. | 1 | High | 2 |
| Sprint-4 |  | USN-12 | Ensuring compliance of applications | 1 | Medium | 2 |

**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 | 20 | 29 Oct 2022 |
| Sprint-2 | 6 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 20 | 30 Oct 2022 |
| Sprint-3 | 6 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 20 | 6 Nov 2022 |
| Sprint-4 | 6 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 20 | 7 Nov 2022 |

**Velocity:**

AV for sprint 1=Sprint Duration/Velocity=12/6=2

AV for sprint 2=Sprint Duration/Velocity=6/6=1

AV for sprint 3=Sprint Duration/Velocity=6/6=1

AV for sprint 4=Sprint Duration/Velocity=6/6=1

**Burndown Chart**

