# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING IBM NALAIYA THIRAN PROJECT

**Project Planning Phase**

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| --- | --- |
| Date | 21 October 2022 |
| Team ID | PNT2022TMID28861 |
| Project Name | IoT Based Smart Crop Protection System for Agriculture |
| Maximum Marks | 8 Marks |

# Project Planning (Product Backlog, Sprint Planning, Stories, story points)

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

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| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points (40)** | **Priority**  **(Low to High)** | **Team Members** |
| Sprint-1 | Registration | USN-1 | As a user, I can register for the required dataset by entering my email, password, and confirming my password. | 3 | High | Ps Kavya |
| Sprint-1 |  | USN-2 | As a user, I will receive confirmation email and the SMS once I have registered for the application | 2 | High | Ps Kavya |
| Sprint-2 | Cloud services | USN-3 | As a user, I can register for the application through Facebook or any social media | 1 | Low | T Kirubasri |
| Sprint-4 |  | USN-4 | As a user, I can register for the application through Gmail/web service | 2 | Medium | A Abinaya |
| Sprint-3 | Login | USN-5 | As a user, I can log into the application network by entering email & password | 4 | High | Hemabharathi |
| Sprint-2 | Pre processing | USN-6 | As a farmer, the user must be able to find the system easy to access so pre-processes and other task must be perfect. | 3 | High | T kirubasri |
| Sprint-1 | Collecting Dataset | USN-7 | To collect various sources of animal threats and keep developing a dataset. | 3 | Medium | Ps Kavya |
| Sprint-4 | Integrating | USN-8 | To integrate the available dataset and keep improving the accuracy of finding animals | 2 | High | A Abinaya |
| Sprint-3 |  | USN-9 | To find and use appropriate compiler to run and test the data so that we can implement our program | 1 | Low | Hemabharathi |
| Sprint-2 |  | USN-10 | Request Saveetha Engineering College to deploy the project in our campus and test | 1 | Low | T Kirubasri |
| Sprint-1 | Training | USN-11 | As programmer, we need to train our data perfectly so that the program runs smoothly | 3 | High | Ps Kavya |
| Sprint-3 |  | USN-12 | Train the data using out available services and IBM dataset from server and improve that | 2 | Medium | Hemabharathi |
| Sprint-4 | Coding | USN-13 | To modify the code according to our program and improve the efficiency of that code | 4 | High | A Abinaya |
| Sprint-2 |  | USN-13 | To improve performance | 1 | Low | T Kirubasri |
| Sprint-2 | Record | USN-5 | To record the data and plot the graph to show the characteristics officially | 4 | High | T Kirubasri |
| Sprint-1 | Planning | USN-4 | Plan the programming language and feasibility | 3 | Medium | Ps Kavya ,A Abinaya |
| Sprint-4 |  | USN-14 | Demonstrate the working and improve accuracy overall | 2 | Low | A Abinaya |

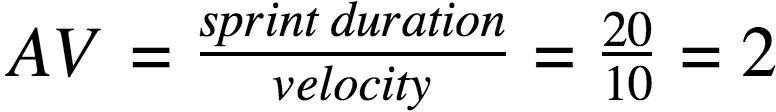
**Project Tracker, Velocity & Burndown Chart: (4 Marks)**

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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 | 5 Days | 20 Oct 2022 | 24 Oct 2022 | 20 | 21 Oct 2022 |
| Sprint-2 | 20 | 5 Days | 25 Oct 2022 | 29 Oct 2022 | 20 | 27 Oct 2022 |
| Sprint-3 | 20 | 5 Days | 31 Oct 2022 | 4 Nov 2022 | 20 | 2 Nov 2022 |
| Sprint-4 | 20 | 7 Days | 5 Nov 2022 | 11 Nov 2022 | 20 | 8 Nov 2022 |

## Velocity:

We have a 23-day sprint duration, and the velocity of the team is 20 (points per sprint).

To Find: 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](https://www.visual-paradigm.com/scrum/what-is-agile-software-development/) [development](https://www.visual-paradigm.com/scrum/what-is-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.

Project: IoT Based Smart Crop Protection System for Agriculture

