

Project Planning Phase

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

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|---------------|--|
| Date | 18October 2022 |
| Team ID | PNT2022TMID33287 |
| Project Name | Project - Fertilizers Recommendation System For Disease Prediction |
| 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-4 | Home Page | USN-1 | As a user, I can view the home page which has a description of the plant disease as well as options to sign up or log in. | 1 | Low | Akalya Divya Sowndarya |
| Sprint-4 | Sign Up Page | USN-2 | As a user, I can register for the application by entering my name, phone number, email, password, and confirming my password. | 1 | High | Akalya Divya Sowndarya Swetha |
| Sprint-4 | Authorization | USN-3 | As a user, I will receive confirmation email once I have registered for the application. | 1 | High | Akalya Divya Sowndarya Swetha |
| Sprint-4 | Login | USN-4 | As a user, I can log into the application by entering email & password. | 1 | High | Akalya Divya Sowndarya Swetha |
| Sprint-4 | Dashboard | USN-5 | As a user, I can upload images of the affected leaves to the website in order to receive the plant disease. | 1 | High | Akalya Divya Sowndarya Swetha |

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|---------------|--------------------------------------|--------------------------|--|---------------------|-----------------|--|
| Sprint-4 | Results | USN-6 | As a user, I can receive a disease in addition to recommendations on what I should do now. | 1 | High | Akalya Divya Sowndarya Swetha |
| Sprint-1 | Data Collection | USN-7 | I need to collect data (images of leaf and with disease stages). | 5 | High | Akalya Divya Sowndarya Swetha |
| Sprint-1 | Data Pre-Processing | USN-8 | I need to clean my data and prepare it for model building by doing pre-processing activities such as resizing etc. | 7 | High | Akalya Divya Sowndarya Swetha |
| Sprint-2 | Model Building | USN-9 | I need to build the model using Convolution Neural Network (CNN). | 12 | High | Akalya Divya Sowndarya Swetha |
| Sprint-3 | Model Deployment | USN-10 | I need to deploy the Machine Learning model that was built. | 12 | Medium | Akalya Divya Sowndarya Swetha |
| Sprint-4 | Application Building | USN-11 | I need to build the website for the application using HTML, CSS etc. | 6 | High | Akalya Divya Sowndarya Swetha |

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 | 12 | 30 Oct 2022 |
| Sprint-2 | 12 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 12 | 06 Nov 2022 |
| Sprint-3 | 12 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 12 | 12 Nov 2022 |
| Sprint-4 | 12 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 12 | 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)

$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{20}{10} = 2$$

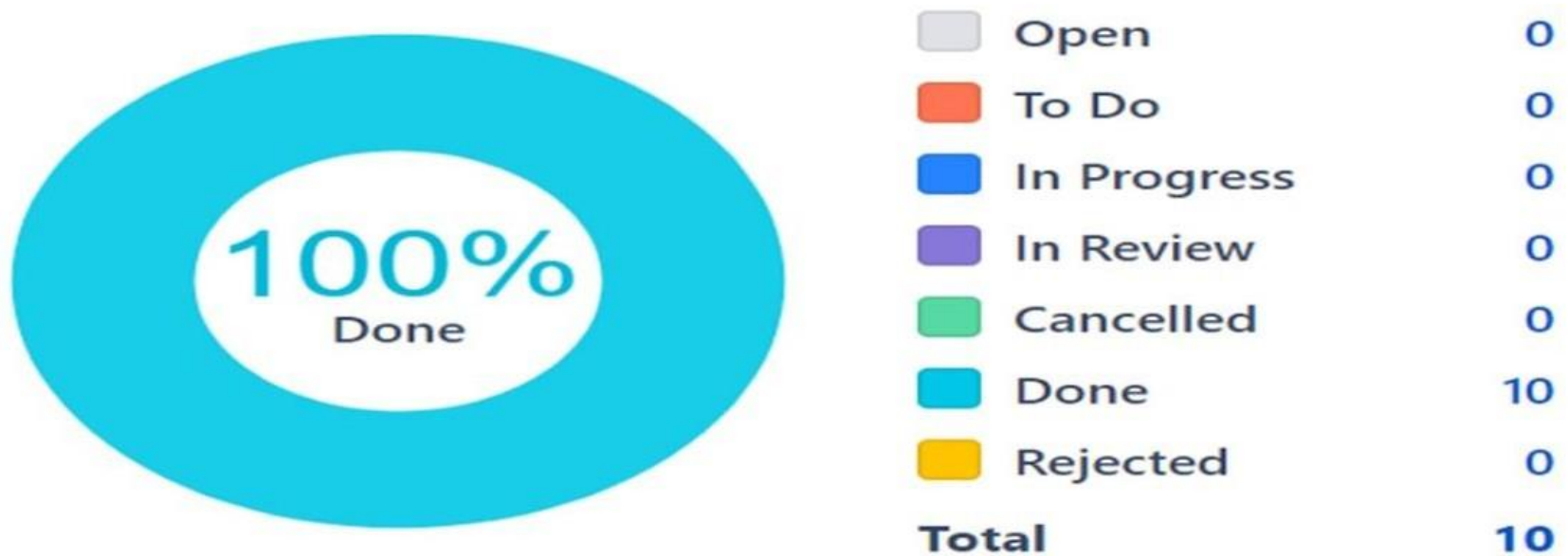
$$\text{Average Velocity (AV)} = 12/6 = 2$$

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 methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

Status overview

View the progress of your project based on the status of each item. For more details, [go to the board view](#).



Priority breakdown

Get a holistic view of how work is being prioritized within your project. To check if the team's focusing on the right work, [go to the list view](#).

