

## Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID47755
Project Name	Project - Fertilizers Recommendation System For Disease Prediction
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	Data Collection	USN-1	Collect and downloading the dataset	2	High	Sathya priyan, Clitus, Periyathambi nadhan, Prakash
Sprint-1	Image Pre-processing	USN-2	Pre-process the images to applied for model	2	High	Sathya priyan, Clitus, Periyathambi nadhan, Prakash
Sprint-1	Model building for fruit disease prediction	USN-3	Building model to predict the disease in fruits	8	High	Sathya priyan, Clitus, Periyathambi nadhan, Prakash
Sprint-1	Model building for vegetable disease prediction	USN-4	Building model to predict the disease in vegetables	8	High	Sathya priyan, Clitus, Periyathambi nadhan, Prakash

<b>Sprint</b>	<b>Functional Requirement (Epic)</b>	<b>User Story Number</b>	<b>User Story / Task</b>	<b>Story Points</b>	<b>Priority</b>	<b>Team Members</b>
Sprint-2	Train and testing The fruit disease prediction model	USN-5	Train the fruit disease detection model for prediction and perform testing	10	High	Sathya priyan, Clitus, Periyathambi nadhan, Prakash
Sprint-2	Train and testing The vegetable Disease prediction model	USN-6	Train the vegetable disease detection model for prediction and perform testing	10	High	Sathya priyan, Clitus, Periyathambi nadhan, Prakash
Sprint-3	Registration	USN-7	As a user, I can register to the website by entering email, password and confirming password	5	High	Sathya priyan, Clitus, Periyathambi nadhan, Prakash
Sprint-3	Login	USN-8	As a user, I can login into the website with my login credentials.	5	High	Sathya priyan, Clitus, Periyathambi nadhan, Prakash
Sprint-3	Dashboard	USN-9	As a user, I can access my dashboard in website and upload images.	10	High	Sathya priyan, Clitus, Periyathambi nadhan, Prakash
Sprint-4	Admin Login and Dashboard	USN-10	As an admin, I can access the admin dashboard to manage the website	10	Medium	Sathya priyan, Clitus, Periyathambi nadhan, Prakash
Sprint-4	Fertilizer shopkeeper Login and Dashboard	USN-11	As a shopkeeper, I can access my dashboard update the fertilizer details in the website	10	Medium	Sathya priyan, Clitus, Periyathambi nadhan, Prakash

**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)

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

**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.

<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>

<https://www.atlassian.com/agile/tutorials/burndown-charts>

**Reference:**

<https://www.atlassian.com/agile/project-management>

<https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software>

<https://www.atlassian.com/agile/tutorials/epics>

<https://www.atlassian.com/agile/tutorials/sprints>

<https://www.atlassian.com/agile/project-management/estimation>

<https://www.atlassian.com/agile/tutorials/burndown-charts>