

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

Date	22 October 2022
Team ID	PNT2022TMID07149
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	Modelling Phase	USN-1	As a user I have problem in finding the disease Because as farmer we face many problems such as finding the actual disease and best fertilizer is quite difficult.	3	Medium	Nithyalakshmi
Sprint-1		USN-2	DataSet - Collect the sample images of disease affected leaves of different kind of varieties and unpredictable disease affected leaves.	2	Medium	Nithyalakshmi, Emalda, Dharshini, Arun
Sprint-1		USN-3	Image Preprocessing - Preprocess the collected disease affected images such as rotating to grayscale, calling.	3	Low	Emalda, Nithyalakshmi
Sprint-1		USN-4	Train and test the collected dataset and to measure the accuracy of the dataset.	4	Medium	Emalda, Nithyalakshmi
Sprint-2		USN-5	Model building - Create a CNN model for the image segmentation	5	High	Arun, Dharshini
Sprint-2		USN-6	Cnn model evaluation - Evaluating the cnn model to check the accuracy and precision.	3	High	Arun, Dharshini

Sprint-2	Development Phase	USN-7	SVM algorithm - Use of svm is classifies the images and give 95% accuracy.	5	High	Emalda, Dharshini
Sprint-2		USN-8	Database creation for each dataset classes.	3	Medium	Nithyalakshmi, Emalda, Dharshini, Arun

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2		USN-9	User database creation for the user details.	2	Low	Nithyalakshmi, Emalda, Dharshini, Arun
Sprint-2		USN-10	Description Page - It contains the details of predicting criteria and user guides.	3	Medium	Arun
Sprint-3		USN-11	Login Page - Login the user with phone number and email id.	2	Low	Nithyalakshmi
Sprint-3		USN-12	Creation of about us, feedback and rating page	3	Medium	Emalda
Sprint-3		USN-13	Dashboard and Input page creation - Contains user profiles and predicting accuracy. Input page we can able to feed the input images.	2	Low	Dharshini
Sprint-3		USN-14	Prediction page - Show the prediction based on the user input.	2	Low	Emalda, Nithyalakshmi
Sprint-4		USN-15	Model Load – API creation using flask	4	Medium	Arun, Dharshini
Sprint-4	Deployment Phase	USN-16	Connecting User interface and backend API calls	5	High	Nithyalakshmi, Emalda, Dharshini, Arun
Sprint-4		USN-17	Deployment of the application by using IBM cloud	5	High	Nithyalakshmi, Emalda, Dharshini, Arun
Sprint-4	Testing Phase	USN-18	Function testing-Checking usability and accessibility and Non Fuction testing-Checking scalability	5	High	Nithyalakshmi, Emalda, Dharshini, Arun
Sprint-4		USN-19	Testing the application as a user all user interfaces will be working properly with check the prediction accuracy.	5	High	Nithyalakshmi, Emalda, Dharshini, Arun

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	10	6 Days	24 Oct 2022	29 Oct 2022	10	30 Oct 2022
Sprint-2	15	6 Days	31 Oct 2022	05 Nov 2022	15	06 Nov 2022
Sprint-3	15	6 Days	07 Nov 2022	12 Nov 2022	15	13 Nov 2022
Sprint-4	10	6 Days	14 Nov 2022	19 Nov 2022	10	20 Nov 2022

Velocity:

Sprint 1 average velocity:

$$\text{Average Velocity} = 10 / 6 = 1.6$$

Sprint 2 average velocity:

$$\text{Average Velocity} = 15 / 6 = 2.5$$

Sprint 3 average velocity:

$$\text{Average Velocity} = 15 / 6 = 2.5$$

Sprint 4 average velocity:

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