

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

<b>DATE</b>	<b>03 November 2022</b>
<b>TEAM ID</b>	<b>PNT2022TMID38677</b>
<b>PROJECT NAME</b>	<b>Fertilizer recommendation system for disease prediction</b>

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

<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-1	Image preprocessing	USN-1	As a customer, I can understand the farmer's problems. Because country farmers face numerous challenges, such as detecting the actual disease.	3	Medium	Dhatchayani S
Sprint-1		USN-2	Data collection- include gathering photos of diseased leaves from various types.	2	Medium	Dhatchayani S
Sprint-1		USN-3	Image Preprocessing - Preprocess the disease-affected photos by doing things like rotating them to grayscale and calling them.	3	Low	Dhatchayani S
Sprint-1		USN-4	Train and test the gathered dataset, as well as assess its accuracy.	4	Medium	Dhatchayani S
Sprint-2		USN-5	Model building - Creating a CNN model for image segmentation	5	High	Dhatchayani S

Sprint-2		USN-6	Cnn model evaluation - Checking the accuracy and precision of the cnn model.	3	High	Dhatchayani S
Sprint-2	<b>MODEL BUILDING</b>	USN-7	SVM algorithm - The SVM algorithm is used to classify images and provides 95% accuracy..	5	High	Saraswathi K

Sprint-2		USN-8	Create a database for each dataset class.	3	Medium	Saraswathi K
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Sprint	Functional Requirement(Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	TESTING MODEL	USN-9	Creation of User Database for the user details.	2	Low	Saraswathi K
Sprint-2		USN-10	Description Page - The description page offers information on the predicting criteria as well as user guides.	3	Medium	Saraswathi K
Sprint-3		USN-11	Login Page - Login with the user's email address.	2	Low	Vincy rashitha EL
Sprint-3		USN-12	Access via password.	3	Medium	
Sprint-3		USN-13	Dashboard and Input page creation - User profiles and prediction accuracy are included. We can feed the input images into the input page..	2	Low	Vincy rashitha EL
Sprint-3		USN-14	Prediction page - Display the prediction depending on user input.	2	Low	Vincy rashitha EL
Sprint-4		USN-15	Model Load –creation of API using flask	4	Medium	Divya k
Sprint-4	Crop Recommendation	USN-16	User interface and backend API calls are connected	5	High	Divya k
Sprint-4		USN-17	Using IBM cloud to deploy the application.	5	High	Divya k

Sprint-4		U S N - 1 8	Test that the application function works with good accuracy and low latency.	5	High	Divya k
Sprint-4		U S N - 1 9	Testing the application as a user ensures that all user interfaces are operational and that the prediction accuracy is correct.	5	High	Divya k

#### 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	14 NOV 2022

## Velocity:

Sprint 1 average velocity:

$$\text{Average Velocity} = 20 / 2 = 10$$

Sprint 2 average velocity:

$$\text{Average Velocity} = 20 / 2 = 10$$

Sprint 3 average velocity:

$$\text{Average Velocity} = 20 / 1 = 20$$

Sprint 4 average velocity:

$$\text{Average Velocity} = 20 / 2 = 10$$

## Burndown Chart:

