

## Project Planning Phase

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

Date	21 October 2022
Team ID	PNT2022TMID19575
Project Name	Project – Fertilizer 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	As a user, I can collect the datasets from different open sources like kaggle.com, data.gov, UCI machine learning repository, etc. with different vegetable leaf images.	5	Low	PAVITHRA M GNANAPRAVEENA R
Sprint-1		USN-2	As a user, I can collect the dataset from different open sources with different fruit leaf images.	5	Low	SNEKA K VAISHNAVI K
Sprint-1	Image Pre-processing	USN-3	As a user, I have to pre-process the images and then	10	Medium	VAISHNAVI K

<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>
			feed them onto the model for training			GNANAPRAVEENA R PAVITHRA M
Sprint-2	Model building for fruit disease prediction.	USN-4	As a user, I will get an application with the DL model that will provide information about fruit diseases.	4	Medium	SNEKA K PAVITHRA M
Sprint-2	Model building for vegetable disease prediction.	USN-5	As a user, I will get an application with the DL model that will provide information about vegetable diseases.	4	High	GNANAPRAVEENA R VAISHNAVI K
Sprint-2	Add CNN layer	USN-6	As a user, I will be adding three layers for CNN which include the Convolution layer, Pooling layer, and Flattening layer	4	Medium	VAISHNAVI K
Sprint-2	Add dense layer	USN-7	Creating the model and adding the input, hidden, and dense layer to it.	4	Low	GNANAPRAVEENA R
Sprint-2	Train and save the model	USN-8	As a user, I can compile, fit and save the model.	2	Medium	SNEKA K
Sprint-2	Test both the models	USN-9	The model is to be tested with different images to know if it is working correctly by loading	2	High	PAVITHRA M

<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>
			the test image, pre-processing it, and predicting the diseases.			
Sprint-3	Application building	USN-10	As a user, I will upload the image of the affected leaf by clicking the upload button in the user interface.	10	High	VAISHNAVI K SNEKA K
Sprint-3		USN-11	As a user, I will request the application to predict the disease that affected my plant.	1	Medium	GNANAPRAVEENA R VAISHNAVI K
Sprint-3		USN-12	As a user, I will get information about the particular disease and also suggestions for fertilizers for that disease.	9	Low	PAVITHRA M VAISHNAVI K
Sprint-4	Train the model on IBM	USN-13	As a user, I train the model on IBM and built the deep learning model.	10	High	GNANAPRAVEENA R PAVITHRA M SNEKA K VAISHNAVI K
Sprint-4	Cloud deployment	USN-14	As a user, I will deploy the application onto the cloud which is to be accessed by users from everywhere.	10	High	GNANAPRAVEENA R PAVITHRA M SNEKA K VAISHNAVI K

