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

Date	15 November 2022
Team ID	PNT2022TMID10804
Project Name	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-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Hariharan M Hemanath C
		USN-2	As a user, I will receive confirmation email once I have registered for the application	2	High	Hemanath C Mahan K Logesh D
		USN-3	As a user, I can register for the application through Gmail	2	Medium	Hemanath C Hariharan M Mahan K
	Login	USN-4	As a user, I can log into the application by entering email & password	4	High	Hariharan M Hemanath C
	Creating The dashboard	USN-5	Create the Dashboard to Interacts with the user interface to upload images	10	High	Hemanath C Mahan K Logesh D Hariharan M
Sprint-2	Download and working with the dataset	USN-6	To work on the given dataset, Download and Understand the Dataset.	2	Medium	Hemanath C
			Load the dataset	2	Medium	Hemanath C

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
	Image Preprocessing		Format images in the dataset before they are used by model training	4	Medium	Mahan K Hemanath C
			Import the Libraries	4	Medium	Hemanath C Hariharan M
			Initializing the model	4	Medium	Hemanath C
	Add CNN Layers	USN-7	Adding three layers for CNN • Convolution layer • Pooling layer • Flattening layer	4	High	Hemanath C Hariharan M Logesh D Mahan K
Sprint-3	Add Dense Layers	USN-8	Add a hidden layer and output layer	20	High	Hemanath C Mahan K
Sprint-4	Train the model	USN-9	Using the dataset, Train the model for disease prediction to recommend the fertilizer	10	Medium	Hemanath C Hariharan M Mahan K
	Test the model	USN-10	Test the model with different data	10	High	Hemanath C Mahan 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	27 Oct 2022	01 Nov 2022	20	01 Oct 2022
Sprint-2	20	6 Days	02 Nov 2022	8 Nov 2022	20	08 Nov 2022
Sprint-3	20	6 Days	9 Nov 2022	14 Nov 2022	20	14 Nov 2022
Sprint-4	20	6 Days	15 Nov 2022	21 Nov 2022	20	21 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)

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

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.