Project Planning Phase

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

Date	26 October 2022
Team ID	PNT2022TMID23111
Project Name	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 dataset from various resources with different leaves which is affected by various disease	10	Low	BUVISA D GOKULA VANI B
Sprint-1	Data Preprocessing	USN-2	As a user, I can load the dataset, handling the missing data, scaling and split data into train and test.	10	Medium	MAHALAKSHMI J NITHYA SRI R
Sprint-2	Model Building	USN-3	As a user, I will get an application with DL model which provides high accuracy of fertilizer recommendation system.	5	High	BUVISA D GOKULA VANI B MAHALAKSHMI J NITHYA SRI R
Sprint-2	Add CNN layers	USN-4	Creating the model and adding the input, hidden, and output layers to it.	5	High	NITHYA SRI R MAHALAKSHMI J GOKULA VANI B

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Compiling the model	USN-5	With both the training data defined and model defined, it's time to configure the learning process.	2	Medium	BUVISA D
Sprint-2	Train & test the model	USN-6	As a user, let us train our model with our image dataset.	6	Medium	BUVISA D NITHYA SRI R GOKULA VANI B MAHALAKSHMI J
Sprint-2	Save the model	USN-7	As a user, the model is saved & integrated with an android application or web application in order to predict something.	2	Low	MAHALAKSHMI J BUVISA D
Sprint-3	Building UI Application	USN-8	As a user, I will upload the disease affected leaf image to the application by clicking a uploadbutton.	5	High	GOKULA VANI B NITHYA SRI R
Sprint-3		USN-9	As a user, I can know the details of the fundamental usage of the application.	5	Low	GOKULA VANI B MAHALAKSHMI J
Sprint-3		USN-10	As a user, I can see the predicted / recommended fertilizers in the application.	5	Medium	NITHYA SRI R BUVISA D
Sprint-4	Train the model on IBM	USN-11	As a user, I train the model on IBM and integrate flask	10	High	NITHYA SRI R MAHALAKSHMI J
Sprint-4	Cloud Deployment	USN-12	As a user, I can access the web application and make the use of the product from anywhere.	10	High	GOKULA VANI B BUVISA D

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	5 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) periteration unit (story points per day)

Average Velocity = 20 / 6 = 3.33

Burndown Chart: