

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

Date	27 October 2022
Team ID	PNT2022TMID52605
Project Name	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	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password	6	High	Sukirtha Raj N
Sprint-1		USN-2	As a user, I will receive confirmation email or OTP once I have registered for the application	6	High	Sharan T
Sprint-2		USN-3	As a user, I can register for the application through Gmail account or phone number	4	Low	Gokulraj V
Sprint-2		USN-4	As a user, I will receive confirmation email to verify my account once registered for the application	2	Medium	Pradesh Kumar J
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	5	High	Sharan T, Siva Baba Kalagara
Sprint-1		USN-6	As a user, I can log into the application by entering mobile number and OTP	3	Medium	Siva Baba Kalagara
Sprint-3		USN-7	As a user, I can log into the application through the linked Gmail account	10	Low	Gokulraj V, Sukirtha Raj N
Sprint-2	Dashboard	USN-8	As a user, I can drag and drop images of the diseased leaf to get fertilizer recommendation	6	High	Pradesh Kumar J, Sharan T

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2		USN-9	As a user, I can upload the images of diseased leaf stored in the device to get the fertilizer recommendation	8	High	Pradesh Kumar J, Gokulraj V
Sprint-3		USN-10	As a user, I can link my google drive and upload the images of diseased leaf directly from the drive for fertilizer recommendation	10	Medium	Gokulraj V, Siva Baba Kalagara
Sprint-4	History	USN-11	As a user, I want to know my past searches and should be able to retrieve the reports generated	5	High	Sukirtha Raj N, Pradesh Kumar J
Sprint-4		USN-12	As a user, I should have the access to delete some contents from the search history	5	High	Sukirtha Raj N
Sprint-4	Report Generation	USN-13	As a user, I should be able to generate a report for the fertilizer that should be used to protect the crop from infected disease	5	High	Sharan T, Gokulraj V
Sprint-4		USN-14	As a user, I should be able to download the generated report and store it in the device for future reference	5	High	Pradesh Kumar J, Sharan T, Gokulraj V

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	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) per iteration unit (story points per day)

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

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.

