

Project Planning Phase

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

Date	21 October 2022
Team ID	PNT2022TMID13105
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	Registration	USN-1	As a user, I can register for the application by entering my phone number, password, and confirming my password.	8	High	Dineshraj V
Sprint-1		USN-2	As a user, I will receive confirmation otp once I have registered for the application	2	High	Fatima Abdul Jabbar
Sprint-3		USN-3	As a user, I can register for the application by entering email, password, and confirming my password	8	Low	Naveena K S
Sprint-2		USN-4	As a user, I can register for the application through Gmail account	2	Medium	Sree Resmi S
Sprint-2		USN-5	As a user, I will receive confirmation email to verify my account once I have registered for the application	2	Medium	Dineshraj V
Sprint-1	Login	USN-6	As a user, I can log into the application by entering mobile number & password	2	High	Fatima Abdul Jabbar
Sprint-1		USN-7	As a user, I can log into the application by entering email & password	8	Medium	Naveena K S
Sprint-3		USN-8	As a user, I can log into the application through the linked Gmail account without mobile number or email or password.	2	Low	Sree Resmi S
Sprint-2	Dashboard	USN-9	As a user, I can drag and drop images of the diseased leaf in order to get the fertilizer recommendation	8	High	Dineshraj V, Fatima Abdul Jabbar

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2		USN-10	As a user, I can upload the images of diseased leaf that is stored in the device inorder to get the fertilizer recommendation	8	High	Naveena K S, Sree Resmi S
Sprint-3		USN-11	As a user, I can link my google drive and upload the images of diseased leaf directly from the drive inorder to get the fertilizer recommendation	8	Low	Dineshraj V, Fatima Abdul Jabbar
Sprint-3		USN-12	As a user, I need to be clear with how to use the application effectively. So instructions need to be provided.	2	High	Naveena K S, Sree Resmi S
Sprint-4	History	USN-13	As a user, I want to know the past searches and I should be able to retrieve the reports generated.	2	High	Dineshraj V, Fatima Abdul Jabbar
Sprint-4		USN-14	As a user, I should have the access to delete some contents from the history of searches	2	High	Naveena K S, Sree Resmi S
Sprint-4	Report Generation	USN-15	As a user, I should be able to generate a report for the fertilizer that should be used inorder to protect the plants.	8	High	Dineshraj V, Fatima Abdul Jabbar
Sprint-4		USN-16	As a user, I should be able to download the generated report and store it in the device for future reference	8	High	Naveena K S, Sree Resmi S

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	07 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	14 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)

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

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.

<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>
<https://www.atlassian.com/agile/tutorials/burndown-charts>

Reference:

<https://www.atlassian.com/agile/project-management>
<https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software>
<https://www.atlassian.com/agile/tutorials/epics>
<https://www.atlassian.com/agile/tutorials/sprints>
<https://www.atlassian.com/agile/project-management/estimation>
<https://www.atlassian.com/agile/tutorials/burndown-charts>