

Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID44860
Project Name	Fertilizer Recommendation System And 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	Image Preprocessing		Image Preprocessing	5	Low	Arthy , Madhu Preetha , Nandhini , Vijayashree
Sprint-1	Download Dataset		Download the dataset	5	Medium	Arthy , Madhu Preetha , Nandhini , Vijayashree
Sprint-1	Home - HTML		Create the home html page for front end process	10	High	Arthy , Madhu Preetha , Nandhini , Vijayashree
Sprint-2	Registration	USN - 1	As a user, I can register for by entering my email, password and confirming my password	5	Medium	Arthy , Madhu Preetha , Nandhini , Vijayashree
Sprint-2	Login	USN - 2	As a user, I can log into the application by entering email & password	5	Medium	Arthy , Madhu Preetha , Nandhini , Vijayashree

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Model Creation and Training (Fruits)		Create a model which can classify diseased fruit plants from given images	5	High	Arthy , Madhu Preetha , Nandhini , Vijayashree
Sprint-2	Model Creation and Training (Vegetables)		Create a model which can classify diseased vegetable plants from given images	5	High	Arthy , Madhu Preetha , Nandhini , Vijayashree
Sprint-3	Prediction Page	USN - 3	As a user, i will be redirected to a page where i can upload my images	6	Medium	Arthy , Madhu Preetha , Nandhini , Vijayashree
Sprint-3	Test The Models		Test a model which can classify diseased fruits and vegetable plants from given images	8	High	Arthy , Madhu Preetha , Nandhini , Vijayashree
Sprint-3	Fertilizers - Excel Sheets		A excel sheet must be created for fruits and vegetable to get the result for given fertilizers	6	Medium	Arthy , Madhu Preetha , Nandhini , Vijayashree
Sprint-4	Python Flask - Back End		A Python - Flask must be created as an interface for the model backend process	10	High	Arthy , Madhu Preetha , Nandhini , Vijayashree
Sprint-4	Train On IBM		Deploy and train on IBM Cloud	10	High	Arthy , Madhu Preetha , Nandhini , Vijayashree

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	
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	

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.

<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>