Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID23782
Project Name	Fertilizer 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		As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Thathireddy Pushpalatha, Yegireddy Deekshitha, yuvethieka Sri G V, Pandi Kavya
	Model creation and training (Fruits)		Create a model which can classify diseased fruit plants from given images. I also need to test the model and deploy it on IBM Cloud	1	High	Thathireddy Pushpalatha, Yegireddy Deekshitha, yuvethieka Sri G V, Pandi Kavya
	Model creation and training (Vegetables)		Create a model which can classify diseased vegetable plants from given images	2	High	Thathireddy Pushpalatha, Yegireddy Deekshitha, yuvethieka Sri G V, Pandi Kavya

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Model creation and training (Vegetables)		Create a model which can classify diseased vegetable plants from given images and train on IBM Cloud	6	High	Thathireddy Pushpalatha, Yegireddy Deekshitha, yuvethieka Sri G V, Pandi Kavya
	Registration	USN-1	As a user, I can log into the application by entering email & password	3	Medium	Thathireddy Pushpalatha, Yegireddy Deekshitha, yuvethieka Sri G V, Pandi Kavya
	Upload Image	USN-2	As a user, I will be redirected to a page where I can upload my pictures of crops	4	High	Thathireddy Pushpalatha, Yegireddy Deekshitha, yuvethieka Sri G V, Pandi Kavya
	Suggestion Results	USN-3	As a user, I can view the results and then obtain the suggestions provided by the ML model	4	High	Thathireddy Pushpalatha, Yegireddy Deekshitha, yuvethieka Sri G V, Pandi Kavya
	Basic Flask App		A base Flask web app must be created as an interface for the ML model	2	High	Thathireddy Pushpalatha, Yegireddy Deekshitha, yuvethieka Sri G V, Pandi Kavya

Sprint -3	Login	USN-4	As a user/admin/shopkeeper, I can log into the application by entering email & password	2	High	Thathireddy Pushpalatha, Yegireddy Deekshitha, yuvethieka Sri G V, Pandi Kavya
	User Dashboard	**USN-5**	As a user, I can view the previous results and history			Thathireddy Pushpalatha, Yegireddy Deekshitha, yuvethieka Sri G V, Pandi Kavya
	Integration		Integrate Flask, CNN model with Cloudant DB	5	Medium	Thathireddy Pushpalatha, Yegireddy Deekshitha, yuvethieka Sri G V, Pandi Kavya
	Conainerization		Containerize Flask app using Docker	2	Low	Thathireddy Pushpalatha, Yegireddy Deekshitha, yuvethieka Sri G V, Pandi Kavya
Sprint-4	Dashboard(Admin)	USN-6	As an admin, I can view other user details and uploads for other purposes	2	Medium	Thathireddy Pushpalatha, Yegireddy Deekshitha, yuvethieka Sri G V, Pandi Kavya
	Dashboard (Shopkeeper)	USN-7	As a shopkeeper, I can enter fertilizer products and then update the details if any	2	Low	Thathireddy Pushpalatha, Yegireddy Deekshitha, yuvethieka Sri G V, Pandi Kavya

	Containerization		Create and deploy Helm charts using Docker Image made before	2	Low	Thathireddy Pushpalatha, Yegireddy Deekshitha, yuvethieka Sri G V, Pandi Kavya

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	10	6 Days	24 Oct 2022	29 Oct 2022	10	30 Oct 2022
Sprint-2	15	6 Days	31 Oct 2022	05 Nov 2022	15	06 Nov 2022
Sprint-3	15	6 Days	07 Nov 2022	12 Nov 2022	15	13 Nov 2022
Sprint-4	12	6 Days	14 Nov 2022	19 Nov 2022	10	20 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.

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