Project Planning Phase

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

Date	12 Nov 2022
Team ID	PNT2022TMID10671
Project Name	AI-Powered Nutrition Analyzer For Fitness Enthusiasts
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Data Collection	USN-1	Dataset - Collecting images of food items apples , banana, orange, pineapple, watermelon for analysis	4	High	MOHAMMED IBRAHIM N
Sprint-1	Image Pre-processing	USN-2	Image data augmentation - Increasing the amount of data by generating new data points from existing data.	2	High	LOKESH N
Sprint-1		USN-3	Image Data Generator Class - Used for getting the input of the original data	2	Low	KUMARAN V
Sprint-1		USN-4	Applying image data generator functionality to train set and test set	2	Medium	RAM KUMAR S
Sprint-1	Model Building	USN-5	Importing The Model Building Libraries	1	Medium	MOHAMMED IBRAHIM N
Sprint-1		USN-6	Initializing The Model	1	Medium	LOKESH N
Sprint-1		USN-7	Adding LSTM Layers	3	High	RAM KUMAR S
Sprint-1		USN-8	Adding Output Layers	1	Medium	KUMARAN V
Sprint-1		USN-9	Configure The Learning Process	4	High	LOKESH N

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Development phase	USN-10	User database creation - It contains the details of users	3	High	MOHAMMED IBRAHIM N
Sprint-2		USN-11	Home page creation - It shows options of the application	2	High	LOKESH N
Sprint-2		USN-12	Login and registration page creation - User can register and login through gmail with Id and password	2	Low	RAM KUMAR S
Sprint-2		USN-13	Dashboard creation – Dashboard contains the information of user profile and features of the application	2	Medium	MOHAMMED IBRAHIM N
Sprint-2		USN-14	User Input Page Creation - It is for the user to feed the input images	4	Medium	KUMARAN V
Sprint-2		USN-15	Analysis and prediction page creation - It shows the prediction of given user input	3	Medium	LOKESH N
Sprint-2		USN-16	Creation of about us , feedback and rating page – It shows application history and feedback page to users	4	High	MOHAMMED IBRAHIM N
Sprint-3	Application Building	USN-17	Create An HTML File	4	Medium	KUMARAN V
		USN-18	Build Python Code	2	High	LOKESH N
		USN-19	Run The App in Local Browser	2	Medium	RAM KUMAR S
		USN-20	Showcasing Prediction On UI	4	High	MOHAMMED IBRAHIM N

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Deployment phase	USN-21	Cloud deployment – Deployment of application by using IBM cloud	2	High	LOKESH N
Sprint-4	Testing phase	USN-22	Functional testing – Checking usability and accessibility	3	Medium	KUMARAN V
Sprint-4		USN-23	Non Functional testing – Checking scalability and performance of the application	3	Medium	RAM KUMAR S

Project Tracker, Velocity & Burndown Chart:

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	03 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	10 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	17 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)

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

In our project, we have a 6-days 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)

$$\mathbf{AV = \frac{Sprint\ Duration}{Velocity} = \frac{20}{6} = 3.3\ (approx.)}$$

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.