

Project Planning Phase

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

Date	06 NOVEMBER 2022
Team ID	PNT2022TMID29438
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	5	High	Harsha.M, Arthi.S
Sprint-1	Image Preprocessing	USN-2	Image data augmentation - Increasing the amount of data by generating new data points from existing data	5	Medium	Harsha.M, Oviya.M
Sprint-1		USN-3	Image Data Generator Class - Used for getting the input of the original data	5	Medium	Arthi.S, Nikitha.S
Sprint-1		USN-4	Applying image data generator functionality to train set and test set	5	Medium	Oviya.M, Arthi.S

Sprint-2	Modeling Phase	USN-5	Importing the Model Building Libraries Initializing the Model	3	Low	Oviya.M, Nikitha.S
Sprint-2		USN -6	Adding CNN Layers, Train the Model	5	High	Arthi.S, Nikitha.S
Sprint-2		USN- 7	Save the Model, Test the Model	4	High	Harsha.M, Nikitha.S

Sprint- 2	Application Phase	USN- 8	Creating HTML pages	8	Medium	Harsha.M, Oviya.M
Sprint-3		USN- 10	Building the python code and importing the flask module into the Project	4	High	Arthi.S, Harsha.M
Sprint-3		USN- 11	Create the Flask application and loading the model	4	Medium	Oviya.M, Nikitha.S
Sprint-3		USN- 12	API integration - Connecting front end and back end and perform routing and run the application	8	High	Harsha.M, Oviya.M
Sprint-3		USN- 13	Run The Application	4	Medium	Arthi.S, Nikitha.S
Sprint-4	Deployment Phase	USN- 14	Register For IBM Cloud	4	Low	Oviya.M, Nikitha.S
Sprint-4		USN- 15	Cloud Deployment – Train the Model on IBM cloud account	8	High	Harsha.M, Arthi.S

Sprint-4	Testing Phase	USN-16	User Acceptance Testing	3	Medium	Oviya.M, Arthi.S
Sprint-4		USN-17	Performance Testing	5	High	Harsha.M, Nikitha.S

Project Tracker, Velocity & Burn down Chart: (4 Mark)

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	08	6 Days	24 Oct 2022	29 Oct 2022	20	6 Nov 2022
Sprint-2	15	6 Days	31 Oct 2022	05 Nov 2022	20	10 Nov 2022
Sprint-3	15	6 Days	07 Nov 2022	12 Nov 2022	20	14 Nov 2022
Sprint-4	25	6 Days	14 Nov 2022	19 Nov 2022	20	18 Nov 2022

Velocity:

Imagine we have 6 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)

$$AV = \frac{\text{Sprint Duration}}{\text{Velocity}} = \frac{20}{6} = 3.3$$

Road Map:

