

Project Planning Phase

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

Date	02 November 2022
Team ID	PNT2022TMID27357
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 like apple, orange, grapes, banana for analysis	4	High	Nisha Rasaili
Sprint-1	Image Preprocessing	USN-2	Image data augmentation - Increasing the amount of data by generating new data points from existing data	3	Medium	Malini R
Sprint-1		USN-3	Image Data Generator Class - Used for getting the input of the original data	3	Medium	Mathangi Sriraman
Sprint-1		USN-4	Applying image data generator functionality to train-set and test-set	5	Medium	Sriman Narayanan P G

Sprint-1	Modeling Phase	USN-5	Defining the model architecture - Building the model using deep learning approach and adding CNN layers	5	High	Malini R
Sprint-2		USN-6	Training , saving, testing and predicting the model	5	High	Sriman Narayanan P G
Sprint-2		USN-7	Database creation for the input classes	3	High	Mathangi Sriraman
Sprint-2	Development Phase	USN-8	Home page creation - It shows options of the application	4	Medium	Nisha Rasaili
Sprint-2		USN-9	User database creation - It contains the details of users	3	Low	Sriman Narayanan P G
Sprint-2		USN-10	Login and registration page creation - User can register and login through g mail with Id and password	5	Low	Mathangi Sriraman
Sprint-3		USN-11	Dashboard creation - Dashboard contains the information of userprofile and features of the application	3	Low	Nisha Rasaili

Sprint	Functional Requirement(Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Development Phase	USN-12	User Input Page Creation - It is for the user to feed the inputimages	4	Low	Sriman Narayanan P G

Sprint-3		USN-13	Analysis and prediction page creation - It shows the prediction of given user input	4	Medium	Malini R
Sprint-3		USN-14	Creation of about us, feedback and rating page – It shows application history and feedback page to users	4	Medium	Nisha Rasaili
Sprint-3	Application Phase	USN-15	Building the python code and importing the flask module into the project	5	Medium	Malini R
Sprint-4		USN-16	Create the Flask application and loading the model	4	High	Mathangi Sriraman
Sprint-4		USN-17	API integration - Connecting front end and back end and perform routing and run the application	4	High	Sriman Narayanan P G

Sprint-4	Deployment Phase	USN-18	Cloud deployment – Deployment of application by using IBM cloud	4	High	Malini R
Sprint-4	Testing Phase	USN-19	Functional testing – Checking usability and accessibility	4	High	Mathangi Sriraman
Sprint-4		USN-20	Non Functional testing – Checking scalability and performance of the application	4	High	Nisha Rasaili

Project Tracker, Velocity & Burn down 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	5 Days	17 Oct 2022	21 Oct 2022	20	21 Oct 2022
Sprint-2	20	5 Days	22 Oct 2022	26 Oct 2022	20	26 Oct 2022
Sprint-3	20	5 Days	27 Oct 2022	31 Oct 2022	20	31 Oct 2022
Sprint-4	20	5 Days	01 Nov 2022	05 Nov 2022	20	05 Nov 2022

Velocity:

$$\text{Average Velocity} = 20/10=2$$

Burn-down Chart: