Project Planning Phase

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

Date	16 October 2022
Team ID	PNT2022TMID04947
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	Harshini.R
Sprint-1	Image Preprocessing	USN-2	Image data augmentation - Increasing the amount of data by generating new data points from existing data	4	Medium	Dharani.M
Sprint-1		USN-3	Image Data Generator Class - Used for getting the input of the original data	4	Medium	Harini.R
Sprint-1		USN-4	Applying image data generator functionality to train set and test set	4	Medium	Nagavarshini.S
Sprint-2	Modeling Phase	USN-5	Defining the model architecture - Building the model using deep learning approach and adding CNN layers	4	High	Harshini.R
Sprint-2		USN -6	Training , saving, testing and predicting the model	5	High	Harini.R
Sprint-2		USN- 7	Database creation for the input classes	4	High	Nagavarshini.S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint- 2	Development phase	USN- 8	User database creation - It contains the details of users	3	Medium	Dharani.M
Sprint-2		USN- 9	Home page creation - It shows options of the application	2	Low	Harini.R
Sprint-2		USN- 10	Login and registration page creation - User can register and login through gmail with Id and password	2	Low	Harshini.R
Sprint-3		USN- 11	Dashboard creation – Dashboard contains the information of user profile and features of the application	2	Low	Nagavarshini.S
Sprint-3		USN- 12	User Input Page Creation - It is for the user to feed the input images	4	Medium	Harshini.R
Sprint-3		USN- 13	Analysis and prediction page creation - It shows the prediction of given user input	4	Medium	Harini.R
Sprint-3		USN- 14	Creation of about us , feedback and rating page – It shows application history and feedback page to users	4	Medium	Dharani.M
Sprint-3	Application Phase	USN- 15	Building the python code and importing the flask module into the Project	6	High	Nagavarshini.S
Sprint-4		USN- 16	Create the Flask application and loading the model	5	High	Harshini.R
Sprint-4		USN- 17	API integration - Connecting front end and back end and perform routing and run the application	5	High	Harini.R
Sprint-4	Deployment Phase	USN-18	Cloud deployment – Deployment of application by using IBM cloud	4	High	Dharani.M

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Testing Phase	USN-19	Functional testing – Checking usability and accessibility	3	Medium	Nagavarshini.S
		USN-20	Non Functional testing – Checking scalability and performance of the application	3	Medium	Dharani.M

Project Tracker, Velocity & Burn down 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	08	5 Days	29 Oct 2022	02 Nov 2022	20	3 Nov 2022
Sprint-2	15	5 Days	03 Oct 2022	07 Nov 2022	20	8 Nov 2022
Sprint-3	15	5 Days	08 Nov 2022	12 Nov 2022	20	11 Nov 2022
Sprint-4	25	5 Days	13 Nov 2022	17 Nov 2022	20	16 Nov 2022

Velocity:

Average Velocity= 12/4 =3