Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID32306
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	Viswanathan S Elakkiya D
Sprint-1	Image Preprocessing	USN-2	Import the image data generator library	4	Medium	Dharanidharan.K Harinisree.S Viswanathan S Elakkiya D
Sprint-1		USN-3	Image Data Generator Class – configure image data agenerator class	4	Medium	Dharanidharan.K Harinisree.S
Sprint-1		USN-4	Applying image data generator functionality to train set and test set	4	Medium	Dharanidhara.K Harinisree.S
Sprint-2	Modeling Phase	USN-5	Defining the model architecture - Building the model using deep learning approach and adding CNN layers	4	High	Viswanathan S Elakkiya D
Sprint-2		USN- 6	Test ,train ,save the model	4	High	Dharanidharan.K Harinisree.S Viswanathan S Elakkiya D

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Application Phase	USN- 7	Building the python code and importing the flask module into the Project	6	High	Dharanidharan.K Harinisree.S
Sprint-3		USN- 8	Create the Flask application and loading the model	4	High	Dharanidharan.K Harinisree.S Viswanathan S Elakkiya D
Sprint-4	Application Phase	USN- 9	API integration - Connecting front end and back end and perform routing and run the application	5	High	Dharanidharan.K Harinisree.S Viswanathan S Elakkiya D
Sprint-4	Deployment Phase	USN-10	Cloud deployment – Deployment of application by using IBM cloud	5	High	Dharanidharan.K Harinisree.S Viswanathan S Elakkiya D

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	17	5 Days	29 Oct 2022	02 Nov 2022	20	3 Nov 2022
Sprint-2	08	5 Days	03 Oct 2022	07 Nov 2022	20	8 Nov 2022
Sprint-3	10	5 Days	08 Nov 2022	12 Nov 2022	20	11 Nov 2022
Sprint-4	10	5 Days	13 Nov 2022	17 Nov 2022	20	16 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 suchas Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

Sprint planning