Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMI35928
Project Name	AI-Powered Nutrition analyzer for fitness enthusiasts
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Dataset collection	USN-1	Image collection of food items especially fruits	3	Medium	Suriya N Palaniappan S
Sprint-1	Image Preprocessing	USN-2	Image augmentation	5	High	Suriya N Palaniappan S
Sprint-1	Development phase	USN-7	Creation of the home page	4	Low	Pranav Sreenivas R Enesh Naren A
Sprint-1	Application Phase	USN-11	Importing the flask module	2	Medium	Pranav Sreenivas R Enesh Naren A
Sprint-2	Image Preprocessing	USN-3	Applying image augmentation to the train set and test set	4	Low	Suriya N Palaniappan S
Sprint-2	Modeling	USN-4	Defining the model architecture	5	Medium	Suriya N Palaniappan S
Sprint-2	Modeling	USN-6	Create database	2	Medium	Pranav Sreenivas R Enesh Naren A

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Development phase	USN-8	Login and registration page creation	3	Medium	Pranav Sreenivas R Enesh Naren A
Sprint-3	Modeling	USN-5	Adding CNN, dense layers and testing, saving the model	8	High	Suriya N Palaniappan S
Sprint-3	Development phase	USN-9	User input page creation	4	Low	Pranav Sreenivas R Enesh Naren A
Sprint-3	Development phase	USN-10	Creation of rating and feedback page	3	Medium	Pranav Sreenivas R Enesh Naren A
Sprint-4	Application Phase	USN-12	Loading the model by creating flask	4	High	Pranav Sreenivas R Enesh Naren A
Sprint-4	Application Phase	USN-13	API-integration	5	High	Suriya N Palaniappan S Pranav Sreenivas R Enesh Naren A
Sprint-4	Deployment Phase	USN-14	Cloud deployment	3	Low	Suriya N Palaniappan S Pranav Sreenivas R Enesh Naren A
Sprint-4	Deployment Phase	USN-15	Check scalability, usability and performance	5	Medium	Suriya N Palaniappan S Pranav Sreenivas R Enesh Naren A

Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Points	Duration	Average Velocity	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	14	7 Days	14/7 = 2	24 Oct 2022	30 Oct 2022		
Sprint-2	15	6 Days	15/6 = 2.5	31 Oct 2022	05 Nov 2022		
Sprint-3	15	5 Days	15.5 = 3	06 Nov 2022	11 Nov 2022		
Sprint-4	17	8 Days	17/8 = 2.1	12 Nov 2022	19 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 such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.