Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID07703
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	Dharanidharan.K Harinisree.S Viswanathan S Elakkiya D
Sprint-1	Image Preprocessing	USN-2	Image data augmentation - Increasing the amount of data by generating new data points from existing data	4	Medium	Dharanidharan.K Harinisree.S
Sprint-1		USN-3	Image Data Generator Class - Used for getting the input of the original data	4	Medium	Dharanidharan.K Harinisree.S Viswanathan S Elakkiya D
Sprint-1		USN-4	Applying image data generator functionality to train set and test set	4	Medium	Viswanathan S Elakkiya D
Sprint-2	Modeling Phase	USN-5	Defining the model architecture - Building the model using deep learning approach and adding CNN layers	4	High	Dharanidharan.K Harinisree.S
Sprint-2		USN -6	Training , saving, testing and predicting the model	5	High	Viswanathan S Elakkiya D
Sprint-2		USN- 7	Database creation for the input classes	4	High	Dharanidharan.K Harinisree.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	Dharanidharan.K Harinisree.S Viswanathan S Elakkiya D
Sprint-2		USN- 9	Home page creation - It shows options of the application	2	Low	Viswanathan S Elakkiya D
Sprint-2		USN- 10	Login and registration page creation - User can register and login through gmail with Id and password	2	Low	Viswanathan S Elakkiya D
Sprint-3		USN- 11	Dashboard creation – Dashboard contains the information of user profile and features of the application	2	Low	Dharanidharan.K Harinisree.S Viswanathan S Elakkiya D
Sprint-3		USN- 12	User Input Page Creation - It is for the user to feed the input images	4	Medium	Dharanidharan.K Harinisree.S
Sprint-3		USN- 13	Analysis and prediction page creation - It shows the prediction of given user input	4	Medium	Dharanidharan.K Harinisree.S
Sprint-3		USN- 14	Creation of about us , feedback and rating page – It shows application history and feedback page to users	4	Medium	Viswanathan S Elakkiya D
Sprint-3	Application Phase	USN- 15	Building the python code and importing the flask module into the Project	6	High	Viswanathan S Elakkiya D
Sprint-4		USN- 16	Create the Flask application and loading the model	5	High	Dharanidharan.K Harinisree.S
Sprint-4		USN- 17	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-18	Cloud deployment – Deployment of application by using IBM cloud	4	High	Dharanidharan.K Harinisree.S

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	Dharanidharan.K Harinisree.S Viswanathan S Elakkiya D
		USN-20	Non Functional testing – Checking scalability and performance of the application	3	Medium	Dharanidharan.K Harinisree.S

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

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)

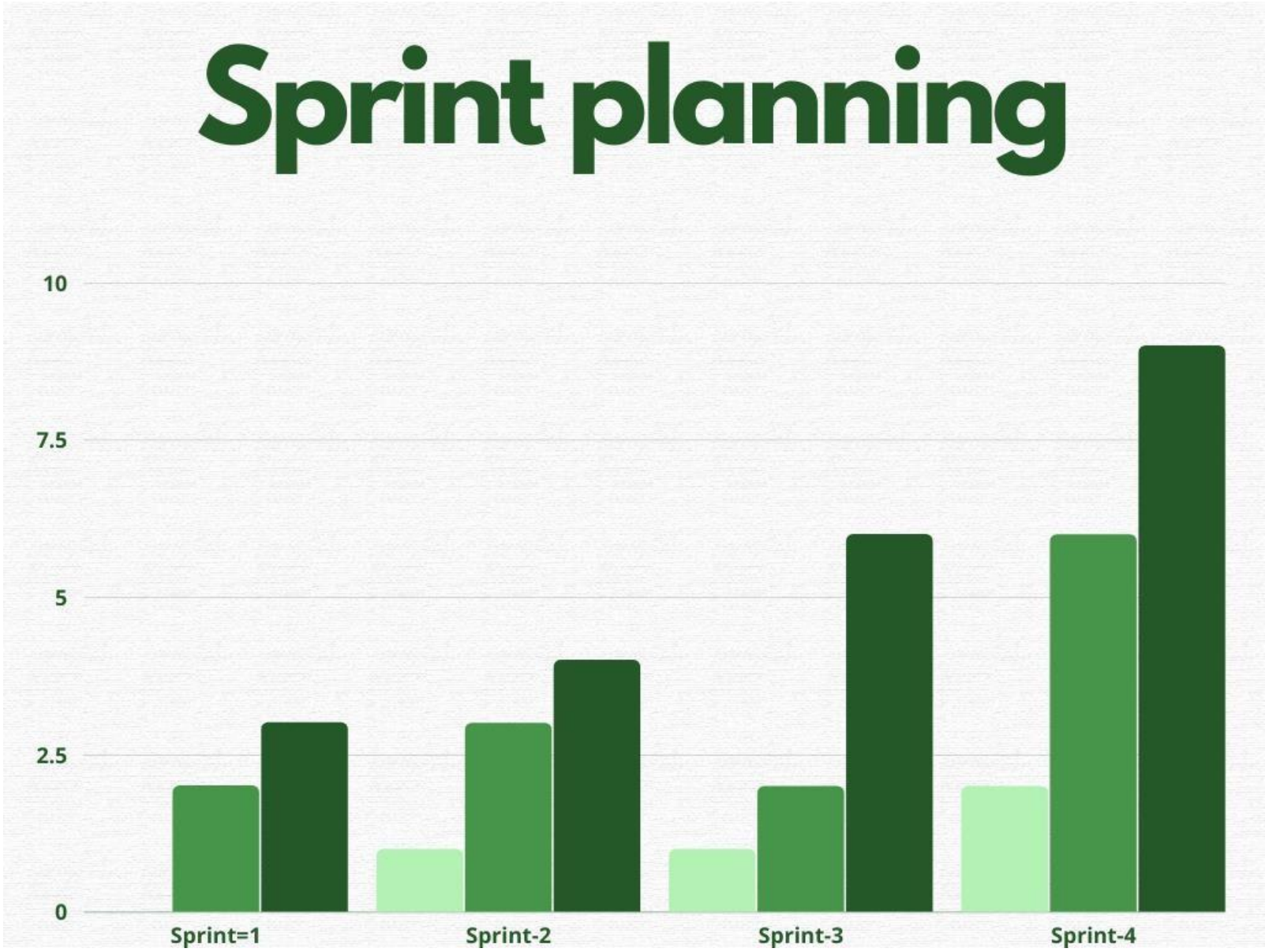
Velocity:

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
10
7.5
5
2.5
0
Sprint=1
Sprint-2
Sprint-3
Sprint-4