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

Date	25 October 2022
Team ID	PNT2022TMID16515
Project Name	AI Powered Nutrition analyzer for Fitness Enthusiastics

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

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Data Collection	USN-1	Download Food Nutrition Dataset	2	Medium	PRIYADARSHINI D
Sprint-1	Data Preprocessing	USN-2	Importing The Dataset into Workspace	1	Low	SHREE NIDHI R
Sprint-1		USN-3	Handling Missing Data	3	Medium	DINESH KUMAR B R
Sprint-1		USN-4	Feature Scaling	3	Low	KAMALAKANNAN S
Sprint-1		USN-5	Data Visualization	3	Medium	PRIYADARSHINI D
Sprint-1		USN-6	Splitting Data into Train and Test	4	High	SHREE NIDHI R
Sprint-1		USN-7	Creating A Dataset with Sliding Windows	4	High	DINESH KUMAR B R
Sprint-2	Model Building	USN-8	Importing The Model Building Libraries	1	Medium	KAMALAKANNAN S
Sprint-2		USN-9	Initializing The Model	1	Medium	PRIYADARSHINI D

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2		USN-10	Adding LSTM Layers	2	High	SHREE NIDHI R
Sprint-2		USN-11	Adding Output Layers	3	Medium	DINESH KUMAR B R
Sprint-2		USN-12	Configure The Learning Process	4	High	KAMALAKANNAN S
Sprint	**Functional Requirement (Epic)**	**User Story Number**	**User Story / Task**	**Story Points**	**Priority**	**Team Members**
Sprint-2		USN-13	Train The Model	2	Medium	PRIYADARSHINI D
Sprint-2		USN-14	Model Evaluation	1	Medium	SHREE NIDHI R
Sprint-2		USN-15	Save The Model	2	Medium	DINESH KUMAR B R
Sprint-2		USN-16	Test The Model	3	High	KAMALAKANNAN S
Sprint-3	Application Building	USN-17	Create An HTML File	4	Medium	PRIYADARSHINI D
Sprint-3		USN-18	Build Python Code	4	High	SHREE NIDHI R
Sprint-3		USN-19	Run The App in Local Browser	4	Medium	DINESH KUMAR B R
Sprint-3		USN-20	Showcasing Prediction On UI	4	High	KAMALAKANNAN S
Sprint-4	Train The Model On IBM	USN-21	Register For IBM Cloud	4	Medium	PRIYADARSHINI D
Sprint-4		USN-22	Train The ML Model On IBM	8	High	SHREE NIDHI R
Sprint-4		USN-23	Integrate Flask with Scoring End Point	8	High	DINESH KUMAR B R
Sprint-4		USN-24	Integrate Flask with Scoring End Point	8	High	KAMALAKANNAN S

Project Tracker, Velocity & Burndown 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	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	03 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	10 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	17 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.