

Project Planning Phase

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

Date	11 November 2022
Team ID	PNT2022TMID09928
Project Name	AI-powered Nutrition Analyzer for Fitness Enthusiasts

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	Aravinth Vimal P K, Akshaya S
Sprint-1	Data Preprocessing	USN-2	Importing The Dataset into Workspace	1	Low	Ganeshkumar S N
Sprint-1		USN-3	Handling Missing Data	3	Medium	Angel L
Sprint-1		USN-4	Feature Scaling	3	Low	Aravinth Vimal P K
Sprint-1		USN-5	Data Visualization	3	Medium	Ganeshkumar S N
Sprint-1		USN-6	Splitting Data into Train and Test	4	High	Aravinth Vimal P K, Ganeshkumar S N
Sprint-1		USN-7	Creating A Dataset with Sliding Windows	4	High	Akshaya S
Sprint-2	Model Building	USN-8	Importing The Model Building Libraries	1	Medium	Angel L
Sprint-2		USN-9	Initializing The Model	1	Medium	Ganeshkumar S N

Sprint-2		USN-10	Adding LSTM Layers	2	High	Akshaya S
Sprint-2		USN-11	Adding Output Layers	3	Medium	Aravinth Vimal P K
Sprint-2		USN-12	Configure The Learning Process	4	High	Angel L
Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2		USN-13	Train The Model	2	Medium	Aravinth Vimal P K, Akshaya S
Sprint-2		USN-14	Model Evaluation	1	Medium	Ganeshkumar S N
Sprint-2		USN-15	Save The Model	2	Medium	Akshaya S
Sprint-2		USN-16	Test The Model	3	High	Aravinth Vimal P K
Sprint-3	Application Building	USN-17	Create An HTML File	4	Medium	Ganeshkumar S N
Sprint-3		USN-18	Build Python Code	4	High	Aravinth Vimal P K
Sprint-3		USN-19	Run The App in Local Browser	4	Medium	Ganeshkumar S N
Sprint-3		USN-20	Showcasing Prediction On UI	4	High	Angel L
Sprint-4	Train The Model On IBM	USN-21	Register For IBM Cloud	4	Medium	Aravinth Vimal P K, Akshaya S, Ganeshkumar S N, Angel L
Sprint-4		USN-22	Train The ML Model On IBM	8	High	Aravinth Vimal P K, Ganeshkumar S N
Sprint-4		USN-23	Integrate Flask with Scoring End Point	8	High	Akshaya S, Angel L

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 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)

$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{20}{10} = 2$$



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.

