

Project Planning Phase

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

Date	12 November 2022
Team ID	PNT2022TMID14604
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	JASHWANTH P
Sprint-1	Data Preprocessing	USN-2	Importing The Dataset into Workspace	1	Low	JASHWANTH P
Sprint-1		USN-3	Handling Missing Data	3	Medium	JASHWANTH P
Sprint-1		USN-4	Feature Scaling	3	Low	SAIRAM SATHVIK I V
Sprint-1		USN-5	Data Visualization	3	Medium	SABARISH G
Sprint-1		USN-6	Splitting Data into Train and Test	4	High	HARSHAL VENKAT K
Sprint-1		USN-7	Creating A Dataset with Sliding Windows	4	High	HARSHAL VENKAT K
Sprint-2	Model Building	USN-8	Importing The Model Building Libraries	1	Medium	HARSHAL VENKAT K
Sprint-2		USN-9	Initializing The Model	1	Medium	SABARISH G

Sprint-2		USN-10	Adding CNN Layers	2	High	SABARISH G
Sprint-2		USN-11	Adding Dense Layers	3	Medium	SAIRAM SATHVIK I V
Sprint-2		USN-12	Configure The Learning Process	4	High	SAIRAM SATHVIK I V
Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2		USN-13	Train The Model	2	Medium	JASHWANTH P
Sprint-2		USN-14	Model Evaluation	1	Medium	JASHWANTH P
Sprint-2		USN-15	Save The Model	2	Medium	JASHWANTH P
Sprint-2		USN-16	Test The Model	3	High	HARSHAL VENKAT K
Sprint-3	Application Building	USN-17	Create An HTML File	4	Medium	HARSHAL VENKAT K
Sprint-3		USN-18	Build Python Code	4	High	SABARISH G
Sprint-3		USN-19	Routing to the HTML Page	4	Medium	SAIRAM SATHVIK I V
Sprint-3		USN-20	Run The Application	4	High	SAIRAM SATHVIK I V
Sprint-4	Train The Model On IBM	USN-21	Register For IBM Cloud	4	Medium	JASHWANTH P
Sprint-4		USN-22	Train The ML Model On IBM	8	High	JASHWANTH P
Sprint-4		USN-23	Integrate Flask with Scoring End Point	8	High	JASHWANTH P

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)

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



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.

