

Project Planning Phase

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

Date	05 October 2025
Team ID	LTVIP2025TMIDS67751
Project Name	Project - AI-Powered Nutrition Analyzer for Fitness Enthusiasts
Maximum Marks	8 Marks

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	Pre-requisites for Model Building	USN-0	As a developer I have to collect different type of data possible and other data supporting the model	2	High	
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	2	High	
Sprint-2		USN-3	As a user, I can register for the application through social media (Fb, Insta, twitter)	1	Low	
Sprint-1		USN-4	As a user, I can register for the application through Gmail	1	Medium	
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	2	High	
Sprint-2	Model Building	USN-6	Development of the model with the prepared data set	2	High	
Sprint-2	Main Interface	USN-7	As a user I can view my calorie intake by clicking photo of the food I eat	2	High	
Sprint-2	Package, Dashboard	USN-8	As a user I can choose variety of packages based on my requirement	2	Medium	

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Diet Plan for free users	USN-9	As a dietitian I provide daily plans for the betterment of the user	2	High	
Sprint-3	Personalized user food habit-based diet plan for premium users	USN-10	As a Premium User, I can choose to follow diet plan based on my food habits or the generalized one	1	Medium	
Sprint -2	User image Analysis	USN-11	As a user I can track my calorie intake, and know about my food in detail.	2	High	
S-3	Improve efficiency of AI model	-	As a developer I have to give a better model that will analyse food precisely and provide accurate results			
Sprint-2	User Analysis record	USN-12	As a user, I can check the previous records and I can analyse my food habits	1	Medium	
S-4	Fitness tips and basic exercises	USN-13	As a user I can follow some fitness tips and I can maintain weight as required	2	Medium	
S-4	Home remedies	USN-14	As a user I can follow some natural home remedies for common diseases like (cold, cough, fever) and treat myself	2	High	
S-4	Optimize the user experience with the app	USN-15	As a developer I have to provide clean and smooth interface to my user	2	High	
S-4	Payment Gateway for purchasing package	USN-16	As a developer I have to create an environment which makes user feel ease to complete his/her Payments with various Payment options	1	Medium	

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	05 Oct 2025	07 Oct 2025	23	07 Oct 2025
Sprint-2	20	6 Days	08 Oct 2025	10 Oct 2025	26	10 Oct 2025
Sprint-3	20	6 Days	11 Oct 2025	13 Oct 2025	11	13 Oct 2025
Sprint-4	20	6 Days	14 Oct 2025	17 Oct 2025	18	17 Oct 2025

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.

An approximate work plan in burndown

