

Project Planning Phase

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

Date	20 October 2022
Team ID	PNT2022TMID21516
Project Name	AI-Powered Nutrition Analyzer for Fitness Enthusiasts
Maximum Marks	8 Marks

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

Sprint	Functional Requirement	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 like images of different food items	2	High	
Sprint-1	Collection of dataset	USN-1	As a developer, i need to collect or create a dataset	1	High	
Sprint-1		USN-2	As a developer , i need to feed the data items into model	1	Medium	
Sprint-1	Software installation	USN-3	As a developer, i need to download some software packages to import data	1	Medium	
Sprint-2	Image preprocessing	USN-4	As a developer, i need to improve the quality of data images	2	Medium	
Sprint-2		USN-5	As a developer i need to preprocess the data using python	2	Medium	
Sprint-2		USN-6	As a developer , i need	1	Medium	

			to perform data augmentation. which means adding parameters to process collected data.			
Sprint-3	Login	USN-7	As a user, I can log into the application by entering email & password	2	High	
Sprint-3	Model Building	USN-8	Development of the model with the prepared data set	1	High	
Sprint-3	Main Interface	USN-9	As a user I can see upload image box and view my calorie intake by clicking photo of the food	2	Medium	
Sprint-3	Dashboard	USN-10	As a user I can create home and dashboard page	2	Medium	
Sprint-4	Fitness tip	USN-11	As a user, I can follow some fitness tips and I can maintain weight as required	2	Medium	
Sprint-4	Recommendation	USN-12	As a user , i can collect tips based on reviews by recommendation system	1	Medium	
Sprint-4	User experience	USN-13	As a user, i can monitor my health status and reminder of health status	1	Medium	
Sprint-4		USN-14	As a developer I have to provide clean and neat interface to my user	2	High	

Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story points	Duration	Sprint start date	Sprint end date	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022	23	28 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	26	04 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	11	11 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	18	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)

$$\text{AV} = \frac{\text{Sprint duration}}{\text{Velocity}} = 20/10 = 2$$

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

