

Project Planning Phase

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

Date	5 November 2022
Team ID	PNT2022TMID23771
Project Name	AI-powered Nutrition Analyzer for Fitness Enthusiasts
Maximum Marks	8 Marks

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

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points (Total)	Priority	Team Members
Sprint-1	Model Creation and Training (Fruits)		Create a model which classify the fruits depends on its features I also need to test the model and deploy it on IBM Cloud.	8	High	Shunmathi, Nivetha, Poojashree, Tamilsanthiya
	Model Creation and Training (Fruits)		Model classify it and determine the nutrients present in the images.	12	High	Shunmathi, Nivetha, Poojashree, Tamilsanthiya

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points (Total)	Priority	Team Members
Sprint-2	Model Creation and Training (Vegetables)		Create a model which classify the fruits depends on its features I also need to test the model and deploy it on IBM Cloud.	6	High	Shunmathi, Nivetha, Poojashree, Tamilsanthiya
	Registration	USN-1	As a user, I can register by entering my email, password, and confirming my password or via OAuth API	3	Medium	Shunmathi, Nivetha, Poojashree, Tamilsanthiya
	Upload page	USN-2	As a user, I will be redirected to a page where I can upload my pictures of fruits	4	High	Shunmathi, Nivetha, Poojashree, Tamilsanthiya
	Suggestion results	USN-3	As a user, I can view the results and then obtain the information provided by the ML model	4	High	Shunmathi, Nivetha, Poojashree, Tamilsanthiya
	Base Flask App		A base Flask web app must be created as an interface for the ML model	3	High	Shunmathi, Nivetha, Poojashree, Tamilsanthiya
Sprint-3	Login	USN-4	As a user/admin, I can log into the application by entering email & password	2	High	Shunmathi, Nivetha, Poojashree, Tamilsanthiya
	User Dashboard	USN-5	As a user, I can view the previous results and history	3	Medium	Shunmathi, Nivetha, Poojashree, Tamilsanthiya
	Integration		Integrate Flask, CNN model	5	Medium	Shunmathi, Nivetha, Poojashree, Tamilsanthiya.

Sprint-4	Dashboard (Admin)	USN-6	As a logged in user, I want be able to add mealsand have a over all view of what I am eating	2	Medium	Shunmathi, Nivetha, Poojashree, Tamilsanthiya
			As a user, I want a link to a weekly summary	2	Low	Shunmathi, Nivetha, Poojashree, Tamilsanthiya

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(in process)	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20(in process)	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20(in process)	19 Nov 2022

NOTE: Burndown charts, Velocity to be updated dynamically after end of sprints

Roadmap:

Projects / Nutrition Analyzer

Navigation bar

Tools: Give feedback, Share

PLANNING

Roadmap

Backlog

Board

DEVELOPMENT

Code

Project pages

Add shortcut

Project settings

Search

SM

Person icon

Group icon

Status category

Epic

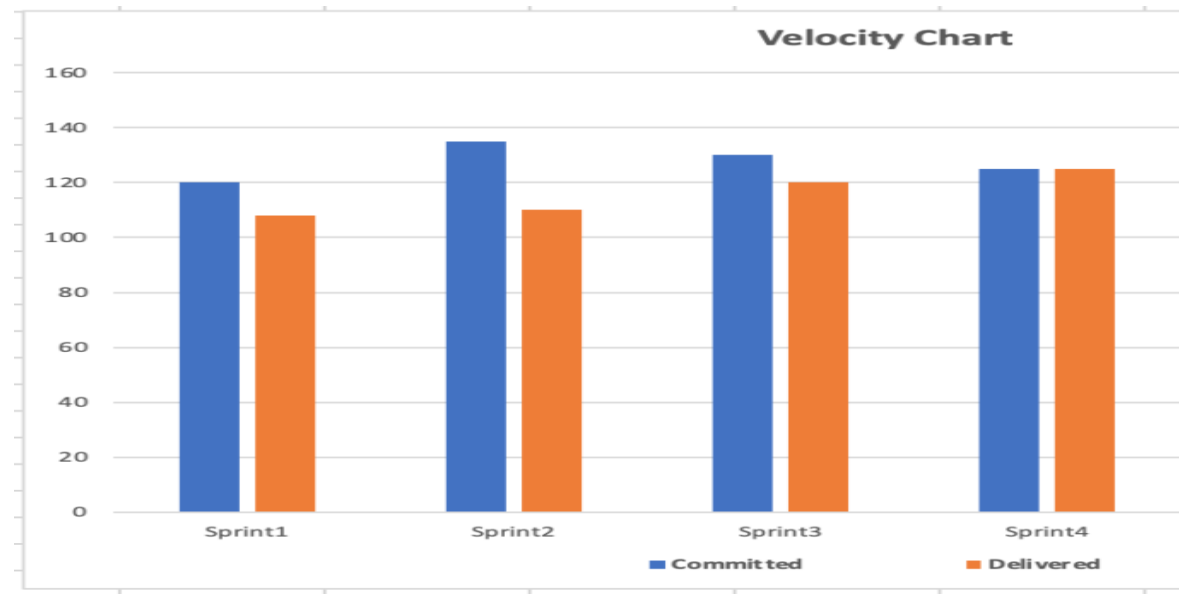
	OCT	NOV
Sprints	NA S...	
NA-1 Model creation and trainin...	DONE	
NA-2 Registration		
NA-3 login		
NA-4 Dashboard		
NA-5 Profile		
+ Create Epic		

Screenshots:

This screenshot shows the 'NA board' (Kanban board) for the 'Nutrition Analyzer' project. The left sidebar contains navigation options: PLANNING (Roadmap, Backlog, Board) and DEVELOPMENT (Code, Project pages, Add shortcut, Project settings). The main area displays three columns: 'TO DO', 'IN PROGRESS', and 'DONE'. The 'TO DO' column contains a message: 'You haven't started a sprint. You can't do anything on your board because you haven't started a sprint yet. Go to the backlog to plan and start a sprint.' with a 'Go to Backlog' button. The top navigation bar includes 'Jira Software', 'Your work', 'Projects', 'Filters', 'Dashboards', 'People', 'Apps', and a 'Create' button. A banner at the top asks: 'Does your team need more from Jira? Get a free trial of our Standard plan.'

This screenshot shows the 'Backlog' view for the 'Nutrition Analyzer' project. The left sidebar is identical to the first screenshot. The main area displays a list of issues under the heading 'NA Sprint 1 24 Oct – 29 Oct (4 issues)'. The issues are: NA-6 collect dataset (TO DO), NA-7 import the library (DONE), NA-8 configure the class (TO DO), and NA-9 apply image datageneratorto trainset and testset (TO DO). The 'NA-7 import the library' issue is highlighted. The bottom of the screen shows 'NA Sprint 2' with 'Add dates' and '(0 issues)'. The top navigation bar and banner are the same as in the first screenshot.

Velocity chart:



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.

