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

Team ID	PNT2022TMID45737
Project Name	Project - Al-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 & Image Processing	1				
Sprint-1		USN-1	Collect images of different food items organized into subdirectories based on their respective names	3	Medium	Ramji
Sprint-1		USN-2	Import and configure the Image data generator library from Keras	3	Medium	Krishnakumar
Sprint-1		USN-3	Apply Image data generator functionality to training set and testing set	5	High	Kathiresan
Sprint-1		USN-4	Improving the image data that suppresses unwilling distortions or enhances some image features important for further processing	3	Medium	Rammohan

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Model Building & Testing					
Sprint-2		USN-5	Importing the model building libraries and Initializing the model	5	High	Rammohan
Sprint-2		USN-6	Adding CNN layers, Dense layers & other necessary layers and Compile the model	5	High	Kathiresan
Sprint-2		USN-7	Train & Test the model based on the image dataset	3	Medium	Ramji
Sprint-3	Application building					
Sprint-3		USN-8	Create HTML pages to design the front-end part of the web page	5	High	Kathiresan
Sprint-3		USN-9	Create the flask application and loading the model file	5	High	Rammohan
Sprint-3		USN-10	Routing to the HTML page and Running the application	5	High	Krishnakumar
Sprint-4	Cloud integration		1	1		
Sprint-4		USN-11	Train the model on Cloud	5		Kathiresan, Rammohan

## **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	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 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)

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