

**Project Planning Template (Product Backlog, Sprint Planning, Stories, Storypoints)**

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

Use the below template to create product backlog and sprint schedule

<b>Sprint</b>	<b>Functional Requirement (Epic)</b>	<b>User Story Number</b>	<b>User Story / Task</b>	<b>Story Points</b>	<b>Priority</b>	<b>Team Members</b>
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	Team Member-1, Team Member-2
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	4	High	Team Member-1, Team Member-2
Sprint-1		USN-3	As a user, I can register for the application through Facebook	2	Low	Team Member-1, Team Member-2
		USN-4	As a user, I can register for the application through Gmail	2	Medium	Team Member-1, Team Member-2
	Login	USN-5	As a user, I can log into the application by entering email & password	4	High	Team Member-1, Team Member-2
	Dashboard	USN-6	As a user, I can view my profile and update my details	2	Low	Team Member-1, Team Member-2

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
		USN-7	As a user, I can change my password	4	High	Team Member-1
Sprint-2		USN-8	As a user, I can view my personal calorie calendar	3	High	Team Member-3, Team Member-2
Sprint-2	Data Collections	USN-9	Download Food Nutrition Dataset & data collections	5	High	Team Leader, Team Member-3
	Data Pre-processing	USN-10	Importing The Dataset into Workspace & image preprocessing	4	High	Team Leader, Team Member-3
	Model Building	USN-11	Initializing The Model and training and testing model	4	High	Team Leader, Team Member-3
		USN-12	Model Evaluation, save model	4	Medium	Team Leader, Team Member-3
Sprint-3	Data Storage	USN-13	In the application, the calorie value of different food items are stored using a database	4	High	Team Leader, Team Member-2
	Application Building	USN-14	Create an HTML File Create an CSS File, Create an JavaScript File	4	High	Team Leader, Team Member-1

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
		USN-15	Build Python Code	4	High	Team Leader, Team Member-3
		USN-16	Showcasing Prediction On UI	4	Medium	Team Member-2, Team Member-1
	Nutrition Analyzer	USN-17	Provide diet plans and exercise	4	Medium	Team Member-2, Team Member-1
Sprint-4	Diet Plan Specification	USN-18	As a user, I can specify my target based on which I receive personalized diet plans	4	High	Team Leader, Team Member-1
	Train The Model On IBM	USN-19	Register For IBM Cloud And train The ML Model On IBM	4	Medium	Team Leader, Team Member-2
		USN-20	Integrate Flask with Scoring End Point	4	Medium	Team Leader, Team Member-3
		USN-21	Create User acceptance testing and performance testing	4	High	Team Leader, Team Member-2
	Feedback Forms	USN-21	reviews and ratings	4	Low	Team Member-1, Team Member-3

**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)

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

## 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.

