

Project Planning Phase

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

Date	25 th October, 2023
Team ID	Team-590932
Project Name	Snack Squad- A customisable snack ordering and delivery app.

Team member name:	Member details:
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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
SPRINT 1	USER AUTHENTICATION	US001	As a user, I want to create an account to start using the app.	3	HIGH
		US002	As a user I want to login with my credentials securely.	2	

SPRINT 1	SNACK CATALOG	US003	As a user I want to view a list of available snacks.	5	HIGH
		US004	As a user I want to filter snacks by category.	3	MEDIUM
SPRINT 2	SNACK CUSTOMIZATION	US005	as a user I want to create a customised snack box.	8	HIGH
		US006	as a user I want to add and remove snacks from my box or cart.	5	
SPRINT 2	RECOMMENDATION ENGINE	US007	as a user I want to receive personalised snack suggestions.	8	HIGH
		US008	As a user I want to see the reasoning behind the recommendations.	3	MEDIUM
SPRINT 3	CART AND CHECKOUT	US009	as a user I want to review and confirm my snack box contents.	5	HIGH
		US010	as a user I want to proceed to payment and complete my purchase.	5	

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	13	7 Days	20 Oct 2023	26 Oct 2023	13	26 Oct 2023
Sprint-2	16	7 Days	27 Oct 2023	02 Nov 2023	16	02 Nov 2023
Sprint-3	15	7 Days	03 Nov 2023	09 Nov 2023	15	09 Nov 2023

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)

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

To calculate the overall Average Velocity (AV) with the updated data, you can use the formula:

$$AV = \text{Sprint Duration} / \text{Velocity}$$

Let's calculate the Average Velocity for each sprint and then find the overall AV:

For Sprint-1: $AV1 = 7 \text{ days} / 13 \text{ story points} = 0.5385 \text{ days/story point}$

For Sprint-2: $AV2 = 7 \text{ days} / 16 \text{ story points} = 0.4375 \text{ days/story point}$

For Sprint-3: $AV3 = 7 \text{ days} / 15 \text{ story points} = 0.4667 \text{ days/story point}$

Now, to find the overall AV, we take the average of the individual sprint average velocities:

$$AV = (AV1 + AV2 + AV3) / 3$$

$$AV = (0.5385 + 0.4375 + 0.4667) / 3$$

$$AV = 0.4809 \text{ days/story point (approximately)}$$

So, the overall Average Velocity for the project, based on the updated data, is approximately 0.4809 days/story point. This represents the average time it takes to complete one story point across all three sprints in the Snack Squad app project.

Graph:

