PROJECT PLANNING PHASE- II
(PRODUCT BACKLOG, SPRINT PLANNING, STORIES, STORY POINTS)

DATE:	27/10/2023
PROJECT:	SNACK SQUAD: A CUSTOMIZABLE SNACK ORDERING AND DELIVERY APP
TEAM ID:	Team-591052

Team details

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Product Backlog, Sprint Schedule, and Estimation:

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
SPRINT 1	USER AUTHENTICATION	USOO1	As a user, I want to create an account to start using the app.	3	HIGH	VISHNU, YASWANTH, ARYA
		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	VISHNU, YASWANTH, ARYA
		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	VISHNU, YASWANTH, ARYA
		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	VISHNU, YASWANTH, ARYA
		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	VISHNU, YASWANTH, ARYA
		US010	as a user I want to proceed to payment and complete my purchase.	5		

Project Tracker, Velocity & Burndown Chart:

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)

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

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

AV = Sprint Duration / Velocity

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

For Sprint-1: AV1 = 7 days / 13 story points = 0.5385 days/story point

For Sprint-2: AV2 = 7 days / 16 story points = 0.4375 days/story point

For Sprint-3: AV3 = 7 days / 15 story points = 0.4667 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 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.

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.