

## Project Planning Phase

### Project Planning (Product Backlog, Sprint Planning, Story Points)

Date	12 April 2025
Team ID	SWTID1742751842
Project Name	ShopEZ: One-Stop Shop for Online Purchases
Maximum Marks	5 Marks

#### Product Backlog, Sprint Schedule, and Estimation

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
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	Bidisha
Sprint-1	Registration	USN-2	As a user, I will receive a confirmation email once I have registered for the application.	1	High	Bhargavee
Sprint-1	Registration	USN-4	As a user, I can register through Gmail.	2	Medium	Diya
Sprint-1	Login	USN-5	As a user, I can log in with email and password.	1	High	Namrata
Sprint-2	Registration	USN-3	As a user, I can register through Facebook.	2	Low	Bidisha

<b>Sprint-2</b>	Login	USN-6	As a user, I can reset my password via email.	2	Medium	Bhargavee
<b>Sprint-2</b>	Dashboard	USN-7	As a user, I can view product listings on the homepage.	3	High	Diya
<b>Sprint-3</b>	Product Browsing	USN-8	As a user, I can view products by categories.	2	High	Bidisha
<b>Sprint-3</b>	Product Browsing	USN-9	As a user, I can view detailed information about each product.	3	High	Bhargavee
<b>Sprint-3</b>	Cart	USN-10	As a user, I can add products to my cart.	3	High	Diya
<b>Sprint-3</b>	Cart	USN-11	As a user, I can remove items from my cart.	2	Medium	Namrata
<b>Sprint-4</b>	Checkout	USN-12	As a user, I can proceed to checkout and review order summary.	3	High	Bidisha
<b>Sprint-4</b>	Payment	USN-13	As a user, I can make a payment using UPI/Credit Card.	4	High	Bhargavee
<b>Sprint-4</b>	Order Management	USN-14	As a user, I will receive an order confirmation email.	2	Medium	Diya
<b>Sprint-4</b>	Order Tracking	USN-15	As a user, I can track my past orders in my profile.	3	Medium	Namrata

## Project Tracker, Velocity & Burndown Chart:

- **Sprint Duration:** 10 days
- **Start Date:** February 25, 2025
- **4 Sprints in Total**
- **Story Points per Sprint:** 20
- **Total Story Points:** 80
- **Assumed Team Velocity:** 20 story points/sprint (~2 story points/day)

### Project Tracker Table

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
<b>Sprint-1</b>	20	10 Days	February 25, 2025	March 6, 2025	15	March 07, 2025
<b>Sprint-2</b>	20	10 Days	March 07, 2025	March 16, 2025	20	March 16, 2025
<b>Sprint-3</b>	20	10 Days	March 17, 2025	March 26, 2025	20	March 27, 2025
<b>Sprint-4</b>	20	10 Days	March 27, 2025	April 05, 2025	10	April 06, 2025

**Note:** The final 10 points were postponed due to UI issues and rework; those will be carried to an optional Sprint-5 if needed.

### Velocity Calculation

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

- Total Completed Story Points: 80
- Total Days: 40
- Velocity per Sprint: 20
- Average Velocity per Day =  $80 / 40 = 2$  story points/day

### Burndown Chart:

Date	Planned Points Remaining	Actual Points Remaining	Notes
February 25, 2025	80	80	Sprint 1 begins
March 06, 2025	60	65	Delay in completing some stories
March 16, 2025	40	45	Backend integration issues, delay in closure
March 26, 2025	20	25	UI/UX rework needed, impacted completion

April 05, 2025	0	10	Final sprint incomplete; 10 points rolled forward
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