

## Project Planning Phase

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

Date	15 April 2025
Team ID	SWTID1743511993
Project Name	Shopez: E-Commerce Application
Maximum Marks	5 Marks

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

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 using email and password with confirmation.	2	High	Shardul
Sprint-1	Login	USN-2	As a user, I can log in with email & password.	1	High	Shardul
Sprint-2	Dashboard	USN-3	As a user, I can see a dashboard after login.	2	Medium	Yashasvi
Sprint-2	Product Listing	USN-4	As a user, I can browse the product list.	3	High	Shreya
Sprint-2	Cart	USN-5	As a user, I can add products to the cart.	3	High	Shardul
Sprint-3	Checkout	USN-6	As a user, I can proceed to checkout.	2	High	Shreya
Sprint-4	Admin Panel	USN-7	As an admin, I can manage users and orders.	5	High	Nishan
Sprint-4	Admin Panel	USN-8	As an admin, I can upload and manage products.	4	High	Nishan

**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	3	5 Days	25 March 2025	30 March 2025	3	30 March 2025
Sprint-2	8	6 Days	31 March 2025	5 April 2025	8	5 April 2025
Sprint-3	2	6 Days	6 April 2025	11 April 2025	2	11 April 2025
Sprint-4	9	2 Days	12 April 2025	14 April 2025	9	14 April 2025

**Velocity:** Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

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

Total Story Points = 3 + 8 + 2 + 9 = 22

Total Duration = 5 + 5 + 5 + 6 = 21 days

AV = 22/21≈1.05 story points per day.

## 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.

