

Project Planning Phase

Date: 21 April 2025

Team ID: SWTID1743510702

Project Name: ShopEZ – E-Commerce Website

Product Backlog, Sprint Schedule, and Estimation

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|----------|-------------------------------|-------------------|---|--------------|----------|--------------|
| Sprint-1 | Authentication | USN-001 | As a user, I can register with my email and password. | 3 | High | Alice |
| Sprint-1 | Authentication | USN-002 | As a user, I can log in using my credentials. | 2 | High | Bob |
| Sprint-1 | Authentication | USN-003 | As a user, I can log out of the website. | 1 | High | Charlie |
| Sprint-1 | Product Browsing | USN-004 | As a user, I can view a list of all available products. | 3 | High | Alice |
| Sprint-1 | Product Browsing | USN-005 | As a user, I can filter products by category and price. | 3 | High | Bob |
| Sprint-2 | Product Details | USN-006 | As a user, I can view detailed information about a product. | 2 | High | Charlie |
| Sprint-2 | Shopping Cart | USN-007 | As a user, I can add products to my cart. | 3 | High | Alice |
| Sprint-2 | Shopping Cart | USN-008 | As a user, I can view and edit my shopping cart. | 2 | High | Bob |
| Sprint-2 | Shopping Cart | USN-009 | As a user, I can remove products from my cart. | 2 | High | Charlie |
| Sprint-3 | Checkout | USN-010 | As a user, I can proceed to checkout with items in my cart. | 3 | High | Alice |
| Sprint-3 | Checkout | USN-011 | As a user, I can enter | 5 | High | Bob |

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|----------|-------------------------------|-------------------|---|--------------|----------|---------------------|
| Sprint-3 | Order Management | USN-012 | shipping and payment details securely. As a user, I can view my order history. | 2 | High | Charlie |
| Sprint-4 | Admin Dashboard | USN-013 | As an admin, I can add/edit/delete product listings. | 5 | High | Alice |
| Sprint-4 | Admin Dashboard | USN-014 | As an admin, I can view all customer orders. | 3 | Medium | Bob |
| Sprint-4 | Profile Management | USN-015 | As a user, I can view and update my profile information. | 2 | Medium | Charlie |
| Future | Wishlist | USN-016 | As a user, I can add products to a wishlist. | 3 | Low | [Future Assignment] |
| Future | Reporting | USN-017 | As an admin, I can view sales and user reports. | 5 | Low | [Future Assignment] |

Project Tracker, Velocity & Burndown Chart (4 Marks)

| Sprint | Total Story Points | Duration | Sprint Start Date | Sprint End Date (Planned) | Story Points Completed | Sprint Release Date (Actual) |
|----------|--------------------|----------|-------------------|---------------------------|------------------------|------------------------------|
| Sprint-1 | 12 | 7 Days | Apr 14, 2025 | Apr 20, 2025 | 12 | Apr 20, 2025 |
| Sprint-2 | 9 | 7 Days | Apr 21, 2025 | Apr 27, 2025 | 8 | Apr 27, 2025 |
| Sprint-3 | 10 | 7 Days | Apr 28, 2025 | May 4, 2025 | 10 | May 4, 2025 |
| Sprint-4 | 10 | 7 Days | May 5, 2025 | May 11, 2025 | 11 | May 11, 2025 |

Velocity:

Total Completed Story Points = 41

Number of Sprints = 4

Average Velocity per Sprint = 10.25

Average Velocity per Day ≈ 1.46

Burndown Chart (Sprint 1)

| Day | Date | Planned Remaining Points | Actual Remaining Points |
|-------|--------|-----------------------------|----------------------------|
| Day 0 | Apr 14 | 12 | 12 |
| Day 1 | Apr 15 | 10.3 | 11 |
| Day 2 | Apr 16 | 8.6 | 8 |
| Day 3 | Apr 17 | 6.9 | 6 |
| Day 4 | Apr 18 | 5.2 | 4 |
| Day 5 | Apr 19 | 3.5 | 2 |
| Day 6 | Apr 20 | 1.8 | 0 |
| Day 7 | Apr 20 | 0 | 0 |