

PROJECT PLANNING PHASE

PLANNING LOGIC

Team ID: SWTID1743602505

Team Size: 4

Team Leader: Indrayani Verulkar

Team member: Vyshnavi Madhusudhan

Team member: Nitisha Gupta

Team member: Ridhima Srivastava

A **Sprint** fixed period or duration in which a team works to complete a set of tasks

An **Epic** is a **big task or project** that is too large to complete in one sprint. It is broken down into **smaller tasks (stories)** that can be completed over multiple sprints.

A **Story** is a small task. It is part of an **Epic**.

A **Story Point** is a number that represents how much effort a story takes to complete. (usually in form of Fibonacci series)

- 1- Very Easy task
- 2- Easy task
- 3- Moderate task
- 5- Difficult task

Sprint 1: Project Setup & Authentication (5 Days)

Epic 1: Project Initialization

- Project Setup & Installation – **Story Point: 2**
- Environment Configuration – **Story Point: 1**

Epic 2: User Authentication

- Create Login/Signup Pages – **Story Point: 3**
- User Model & Auth Logic (Django) – **Story Point: 3**
- Session Handling – **Story Point: 2**

Total Story Points (Sprint 1): 11

Sprint 2: Product Management (5 Days)

Epic 3: Product Handling

- Create Product Model – **Story Point: 3**
- Admin Product Add/Edit/Delete – **Story Point: 3**
- Product Listing Page (Frontend) – **Story Point: 2**
- Product Details Page – **Story Point: 2**

Total Story Points (Sprint 2): 10

Sprint 3: Cart & Orders (5 Days)

Epic 4: Cart System

- Add to Cart Button & Logic – **Story Point: 3**
- Cart Page – **Story Point: 2**
- Update/Delete Cart Items – **Story Point: 3**

Epic 5: Order System

- Create Order Model – **Story Point: 2**
- Checkout Page – **Story Point: 3**
- Order Summary & Success Page – **Story Point: 2**

Total Story Points (Sprint 3): 15

Sprint 4: Final Touches & Deployment (5 Days)

Epic 6: UI Polish & Responsiveness

- Add Styling & Mobile Optimization – **Story Point: 3**
- Basic Search/Filter Function – **Story Point: 3**

Epic 7: Deployment

- Setup Django Deployment (Heroku/Render) – **Story Point: 5**
- Testing & Bug Fixes – **Story Point: 2**

Total Story Points (Sprint 4): 13

Sprint 5 User Profile, Order History & Admin Enhancements (5 Days)

Epic 8: User Profile

- Create user profile page with editable fields – **3**
- Display user's past orders – **3**
- Allow users to update their account info – **2**

Epic 9: Admin Dashboard

- Create admin dashboard to view order stats – **3**
- Enable admin to update order status (e.g., shipped/delivered) – **2**

Epic 10: Payment Integration

- Integrate dummy payment gateway (Stripe sandbox or similar) – **5**
- Generate order receipt or invoice after successful payment – **3**

Total Story Points

Sprint 5 = 21

Velocity Calculation

Total Story Points = 11 (Sprint 1) + 10 (Sprint 2) + 15 (Sprint 3) + 14 (Sprint 4) + 21 (Sprint 5)
= 71

Number of Sprints = 5

Velocity = $71 \div 5 = 14.2$ Story Points per Sprint