

Zarooriyaat E-Commerce

01.03.2025

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Overview

A full-stack e-commerce platform designed to support small businesses by eliminating high subscription fees and using a profit-sharing billing model.

Problem Statement

The Problem of High subscription fees and limited market reach for small businesses in e-commerce, **Affects** small business owners and entrepreneurs, **The Impact of which is** Constrained growth potential, financial burdens, and limited opportunities to compete with established online platforms. **A Successful solution would be** a full-stack, subscription-free e-commerce platform (Zarooriat) with a profit-sharing model, comprehensive product listings, secure payments, and robust order management


Envisioned Features

- User Registration and Authentication
- Seller Onboarding and Profile Management
- Product Catalog Listing and Search/Filtering
- Shopping Cart and Checkout Process
- Integrated Payment Gateway
- Order Placement, Tracking, and Notifications
- Customer Reviews and Ratings
- Profit-Sharing Billing Model
- Inventory Management for Sellers
- Sales Analytics Dashboard
- Wishlist and Product Recommendations
- Discount and Promotion Management
- Returns and Refunds Processing

- Responsive Design for Mobile and Desktop
- Email Notifications and Alerts

User Stories

1. **As a new user**, I want to register an account so that I can start using the platform.
2. **As a registered user**, I want to log in securely so that my data remains protected.
3. **As a seller**, I want to create a detailed profile so that customers can learn about my business.
4. **As a seller**, I want to add products to my catalog so that they can be displayed to potential buyers.
5. **As a customer**, I want to search for products by name so that I can quickly find what I need.
6. **As a customer**, I want to filter products by category to narrow down my choices.
7. **As a user**, I want to view detailed product descriptions to make informed decisions.
8. **As a user**, I want to add products to my shopping cart so I can purchase multiple items in one go.
9. **As a user**, I want a secure checkout process to protect my payment information.
10. **As a seller**, I want to track my orders so that I can manage shipping effectively.
11. **As a customer**, I want to receive email updates on my order status.
12. **As a seller**, I want to view sales analytics to monitor my business performance.
13. **As a user**, I want to provide feedback on products to help improve quality.
14. **As a seller**, I want to manage my inventory to prevent overselling.


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15. **As a customer,** I want to create a wishlist to save products for future purchases.
 16. **As a user,** I want to compare products side-by-side for better decision-making.
 17. **As a seller,** I want to offer promotions and discounts to attract more buyers.
 18. **As a user,** I want to read customer reviews and ratings before buying a product.
 19. **As a seller,** I want to receive alerts when my stock is low.
 20. **As a customer,** I want real-time shipment tracking to know when my order will arrive.
 21. **As a seller,** I want a dashboard to view all orders and performance metrics in one place.
 22. **As a user,** I want to be able to reset my password if I forget it.
 23. **As a customer,** I want an easy process to request returns or refunds.
 24. **As a seller,** I want to integrate my social media accounts to promote my products.
 25. **As a user,** I want the platform to be mobile-friendly so that I can shop on the go.
 26. **As a seller,** I want support for multiple vendors to expand my business network.

Roles and Duties

- **Scrum Master:**
 - Mahad Rehman
- **Scrum Team Members:**
 - Masab Hammad
 - Hashim Awan

Team Agreements

Communication Methods

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- Primary: Whatsapp for quick messages.
 - Secondary: Email for longer messages.

Communication Response Times

- WhatsApp: Respond within a few hours.
- Emails: Respond within a day.

Meeting Attendance and Setup

- Weekly meetings on Google Meet.
- Meeting minutes will be shared by the Scrum Master.

Meeting Preparation

- All team members should review the sprint backlog before meetings.
- Prepare updates on progress and any obstacles encountered.

Version Control and Code Management

- Use GitHub for code versioning and collaboration.
- Commit messages must be descriptive.
- Only stable and reviewed code should be merged into the main branch.

Division of Work

- Tasks will be assigned during sprint planning based on expertise and workload.
- The team will decide on work allocation collaboratively, ensuring a balanced distribution of responsibilities.
- Regular stand-ups will help track progress and reassign tasks if necessary.

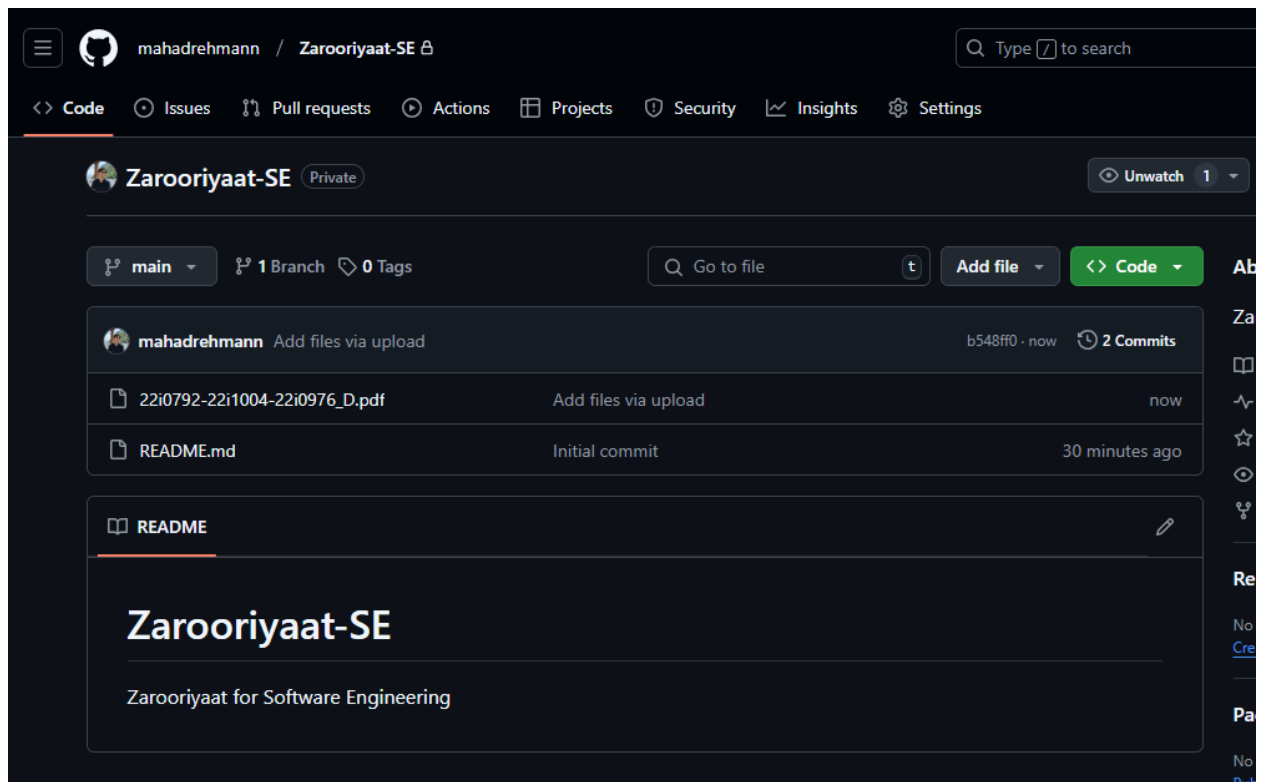
Contingency Planning

- In case a team member is absent, tasks will be redistributed among available members.
- Consistent non-attendance or failure to contribute will trigger a review of responsibilities and possible reallocation of tasks.

- All work will be backed up on GitHub to prevent data loss.

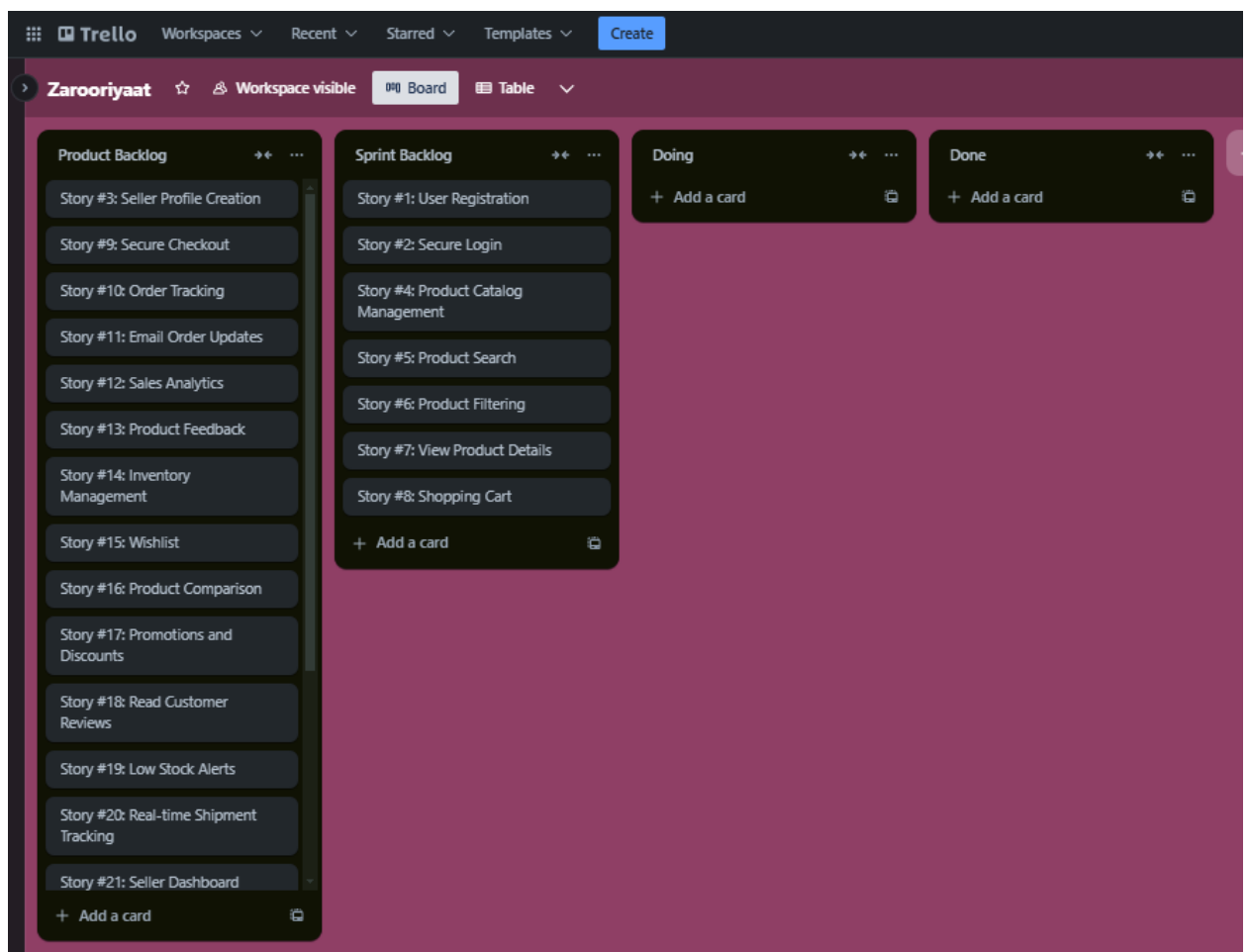
GitHub Repository

- Repository Link: <https://github.com/mahadrehmann/Zarooriyaat-SE>

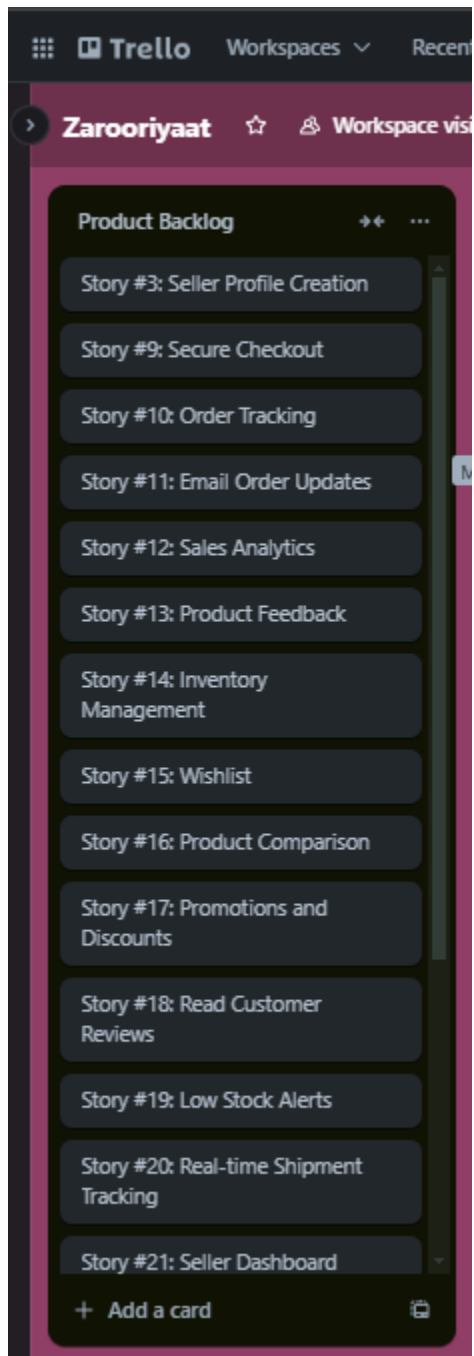


Trello Board Snapshots

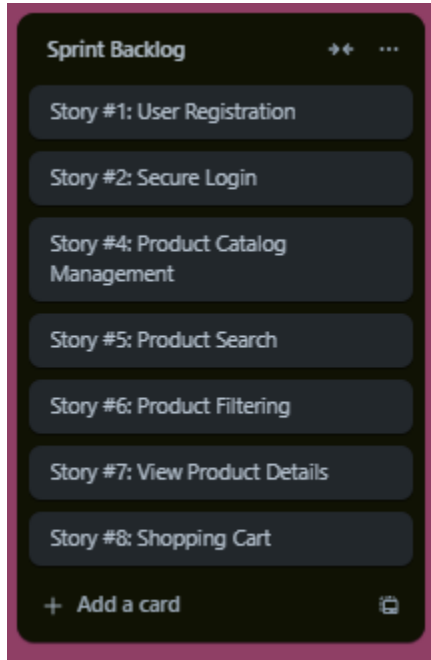
- Trello Board:



- Product Backlog:



- **Sprint Backlog**



Story ID: 1

Story Title: User Registration

User Story

- As a: **new user**
- I want: **to register an account**
- So that: **I can start using the platform**

Importance: High

Estimate: 4 hours

Acceptance Criteria

- And I know I am done when:
 - A new user can fill in registration details (name, email, password).
 - The system validates the input and creates an account.

- The user can immediately log in with the new credentials.

Type: Workflow

Story ID: 2

Story Title: Secure Login

User Story

- As a: **registered user**
- I want: **to log in securely**
- So that: **my data remains protected**

Importance: High

Estimate: 3 hours

Acceptance Criteria

- And I know I am done when:
 - A user can enter valid credentials to access their account.
 - The system denies access for invalid credentials.
 - Session tokens or cookies are managed securely.

Type: Workflow

Story ID: 3

Story Title: Seller Profile Creation

User Story

- As a: **seller**

- I want: **to create a detailed profile**
- So that: **customers can learn about my business**

Importance: Medium

Estimate: 4 hours

Acceptance Criteria

- And I know I am done when:
 - A seller can fill out store name, description, and contact info.
 - The profile is saved in the database.
 - The profile is visible to potential customers.

Type: Manage Data

Story ID: 4

Story Title: Product Catalog Management

User Story

- As a: **seller**
- I want: **to add products to my catalog**
- So that: **they can be displayed to potential buyers**

Importance: High

Estimate: 5 hours

Acceptance Criteria

- And I know I am done when:
 - A seller can create, edit, and delete product entries (title, description, price, images).
 - The products appear in the store's catalog.

- Changes reflect in real-time for customers.

Type: Manage Data

Story ID: 5

Story Title: Product Search

User Story

- As a: **customer**
- I want: **to search for products by name**
- So that: **I can quickly find what I need**

Importance: High

Estimate: 4 hours

Acceptance Criteria

- And I know I am done when:
 - The search bar allows a keyword input.
 - Relevant products appear in the search results.
 - The system handles partial or misspelled keywords gracefully.

Type: Search

Story ID: 6

Story Title: Product Filtering

User Story

- As a: **customer**

- I want: **to filter products by category**
- So that: **I can narrow down my choices**

Importance: Medium

Estimate: 3 hours

Acceptance Criteria

- And I know I am done when:
 - The system displays a list of categories to choose from.
 - Only products from the selected category are shown.
 - Multiple filters (e.g., category + price range) can be applied simultaneously.

Type: Search

Story ID: 7

Story Title: View Product Details

User Story

- As a: **user**
- I want: **to view detailed product descriptions**
- So that: **I can make informed decisions**

Importance: High

Estimate: 2 hours

Acceptance Criteria

- And I know I am done when:
 - Clicking on a product shows a detailed page (images, price, description).
 - Additional info (e.g., stock, reviews) is displayed if available.



Type: Report/View

Story ID: 8

Story Title: Shopping Cart

User Story

- As a: **user**
- I want: **to add products to my shopping cart**
- So that: **I can purchase multiple items in one go**

Importance: High

Estimate: 5 hours

Acceptance Criteria

- And I know I am done when:
 - The user can add products to the cart from product listings or detail pages.
 - The cart shows product names, prices, and quantities.
 - The user can remove items or update quantities.

Type: Workflow

Story ID: 9

Story Title: Secure Checkout

User Story

- As a: **user**
- I want: **a secure checkout process**
- So that: **my payment information is protected**



Importance: High

Estimate: 6 hours

Acceptance Criteria

- And I know I am done when:
 - The user can enter shipping and payment details.
 - The system processes payments securely (SSL/TLS).
 - An order confirmation is displayed and emailed to the user.

Type: Payment

Story ID: 10

Story Title: Order Tracking

User Story

- As a: **seller**
- I want: **to track my orders**
- So that: **I can manage shipping effectively**

Importance: Medium

Estimate: 4 hours

Acceptance Criteria

- And I know I am done when:
 - The seller sees all pending and completed orders.
 - Each order's status can be updated (Processing, Shipped, Delivered).
 - The system notifies customers of status changes.

Type: Workflow

Story ID: 11

Story Title: Email Order Updates

User Story

- As a: **customer**
- I want: **to receive email updates on my order status**
- So that: **I know when my order is shipped or delivered**

Importance: Medium

Estimate: 3 hours

Acceptance Criteria

- And I know I am done when:
 - The system sends an automated email when the order status changes.
 - The email includes relevant order details.

Type: Workflow

Story ID: 12

Story Title: Sales Analytics

User Story

- As a: **seller**
- I want: **to view sales analytics**
- So that: **I can monitor my business performance**

Importance: Medium

Estimate: 5 hours

Acceptance Criteria

- And I know I am done when:

- The seller can see total sales, revenue, and best-selling products.
- Data can be filtered by date range.
- Charts or graphs are available for visualization.

Type: Report/View

Story ID: 13

Story Title: Product Feedback

User Story

- As a: **user**
- I want: **to provide feedback on products**
- So that: **I can help improve quality and inform other customers**

Importance: Low

Estimate: 3 hours

Acceptance Criteria

- And I know I am done when:
 - Users can submit ratings and written reviews.
 - Feedback is linked to the user's account.
 - Other users can read these reviews.

Type: Manage Data

Story ID: 14

Story Title: Inventory Management

User Story

- As a: **seller**

- I want: **to manage my inventory**
- So that: **I can prevent overselling**

Importance: High

Estimate: 4 hours

Acceptance Criteria

- And I know I am done when:
 - The system decrements stock levels after each purchase.
 - Sellers can manually update stock if needed.
 - An alert is triggered when stock is below a threshold.

Type: Manage Data

Story ID: 15

Story Title: Wishlist

User Story

- As a: **customer**
- I want: **to create a wishlist**
- So that: **I can save products for future purchases**

Importance: Medium

Estimate: 3 hours

Acceptance Criteria

- And I know I am done when:
 - The user can add products to a personal wishlist.
 - The wishlist is saved and persists across sessions.
 - The user can move items from the wishlist to the cart.

Type: Manage Data

Story ID: 16

Story Title: Promotions and Discounts

User Story

- As a: **seller**
- I want: **to offer promotions and discounts**
- So that: **I can attract more buyers**

Importance: Medium

Estimate: 4 hours

Acceptance Criteria

- And I know I am done when:
 - The seller can create discount codes or price reductions.
 - The system applies the discount at checkout.
 - The discount details appear on the order summary.

Type: Manage Data

Story ID: 17

Story Title: Read Customer Reviews

User Story

- As a: **user**
- I want: **to read customer reviews and ratings**
- So that: **I can make informed decisions before buying**

Importance: Medium

Estimate: 3 hours

Acceptance Criteria

- And I know I am done when:
 - Reviews and ratings are visible on the product detail page.
 - The system displays an average rating.

Type: Report/View

Story ID: 18

Story Title: Low Stock Alerts

User Story

- As a: **seller**
- I want: **to receive alerts when my stock is low**
- So that: **I can restock in time**

Importance: Medium

Estimate: 3 hours

Acceptance Criteria

- And I know I am done when:
 - The system checks stock levels regularly.
 - An email or dashboard notification is sent if stock falls below a threshold.

Type: Workflow

Story ID: 19

Story Title: Real-time Shipment Tracking

User Story

- As a: **customer**
- I want: **real-time shipment tracking**
- So that: **I know when my order will arrive**

Importance: Medium

Estimate: 5 hours

Acceptance Criteria

- And I know I am done when:
 - A tracking link or status is updated on the user's order page.
 - The system refreshes tracking info from the courier API.

Type: Report/View

Story ID: 20

Story Title: Seller Dashboard

User Story

- As a: **seller**
- I want: **a dashboard to view all orders and performance metrics**
- So that: **I can monitor my business in one place**

Importance: High

Estimate: 6 hours

Acceptance Criteria

- And I know I am done when:
 - The seller can see pending, shipped, and delivered orders.
 - Basic sales metrics are displayed (total revenue, daily sales).
 - The dashboard updates in real-time.



Type: Report/View

Story ID: 21

Story Title: Password Reset

User Story

- As a: **user**
- I want: **to reset my password if I forget it**
- So that: **I can regain access to my account**

Importance: Medium

Estimate: 3 hours

Acceptance Criteria

- And I know I am done when:
 - The user can request a password reset link via email.
 - The system verifies the token and allows setting a new password.

Type: Workflow

Story ID: 22

Story Title: Returns and Refunds

User Story

- As a: **customer**
- I want: **an easy process to request returns or refunds**
- So that: **I can resolve issues with my orders**



Importance: High

Estimate: 5 hours

Acceptance Criteria

- And I know I am done when:
 - The user can initiate a return request from their order history.
 - The system updates the order status to “Return Requested.”
 - Refunds are processed according to the seller’s policy.

Type: Workflow

Story ID: 23

Story Title: Social Media Integration

User Story

- As a: **seller**
- I want: **to integrate my social media accounts**
- So that: **I can promote my products more effectively**

Importance: Low

Estimate: 4 hours

Acceptance Criteria

- And I know I am done when:
 - The seller can link social platforms (Facebook, Instagram, etc.).
 - The system displays social media links on the seller’s profile page.

Type: Workflow

Story ID: 24



Story Title: Mobile-Friendly Interface

User Story

- As a: **user**
- I want: **the platform to be mobile-friendly**
- So that: **I can shop on the go**

Importance: High

Estimate: 6 hours

Acceptance Criteria

- And I know I am done when:
 - The website is responsive on various screen sizes.
 - All features are fully functional on mobile devices.

Type: Workflow

Story ID: 25

Story Title: Multi-Vendor Support

User Story

- As a: **seller**
- I want: **support for multiple vendors**
- So that: **I can expand my business network**

Importance: Medium

Estimate: 3 hours

Acceptance Criteria

- And I know I am done when:
 - Multiple vendors can register and manage their own catalogs.



- Each vendor's orders and revenue are tracked separately.
- Customers can browse products by vendor or category.

Type: Manage Data