Zarooriyaat Platform

UNLOCKING E-COMMERCE FOR EVERYONE



Problem Statement

01

Problem 01

Barrier to Entry for New Buisnesses

02

Problem 02

Increased Financial Pressure

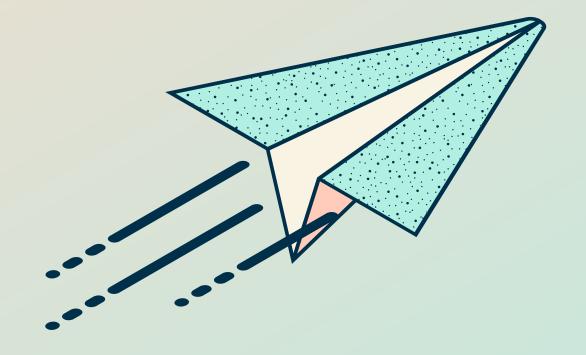
03

Problem 03

Reduced Flexibility for Business Operations



Zarooriyaat Platform



01

Solution 01

No Upfront Costs

02

Solution 02

Performance-Based Fees

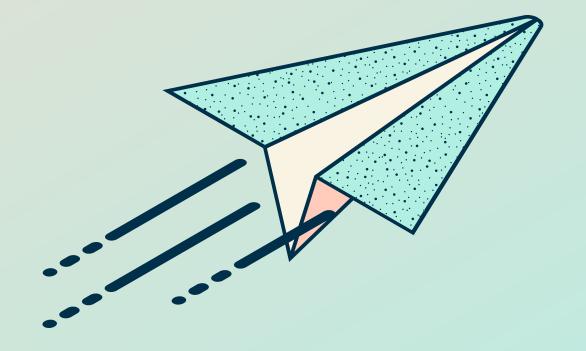
03

Solution 03

Scalability Support



System Architecture





Zarooriyaat Development

Using Scrum (Agile), we iteratively progressed through requirement analysis, design, and development, enabling adaptability and continuous improvement.

March'2
5 **Development**Phase

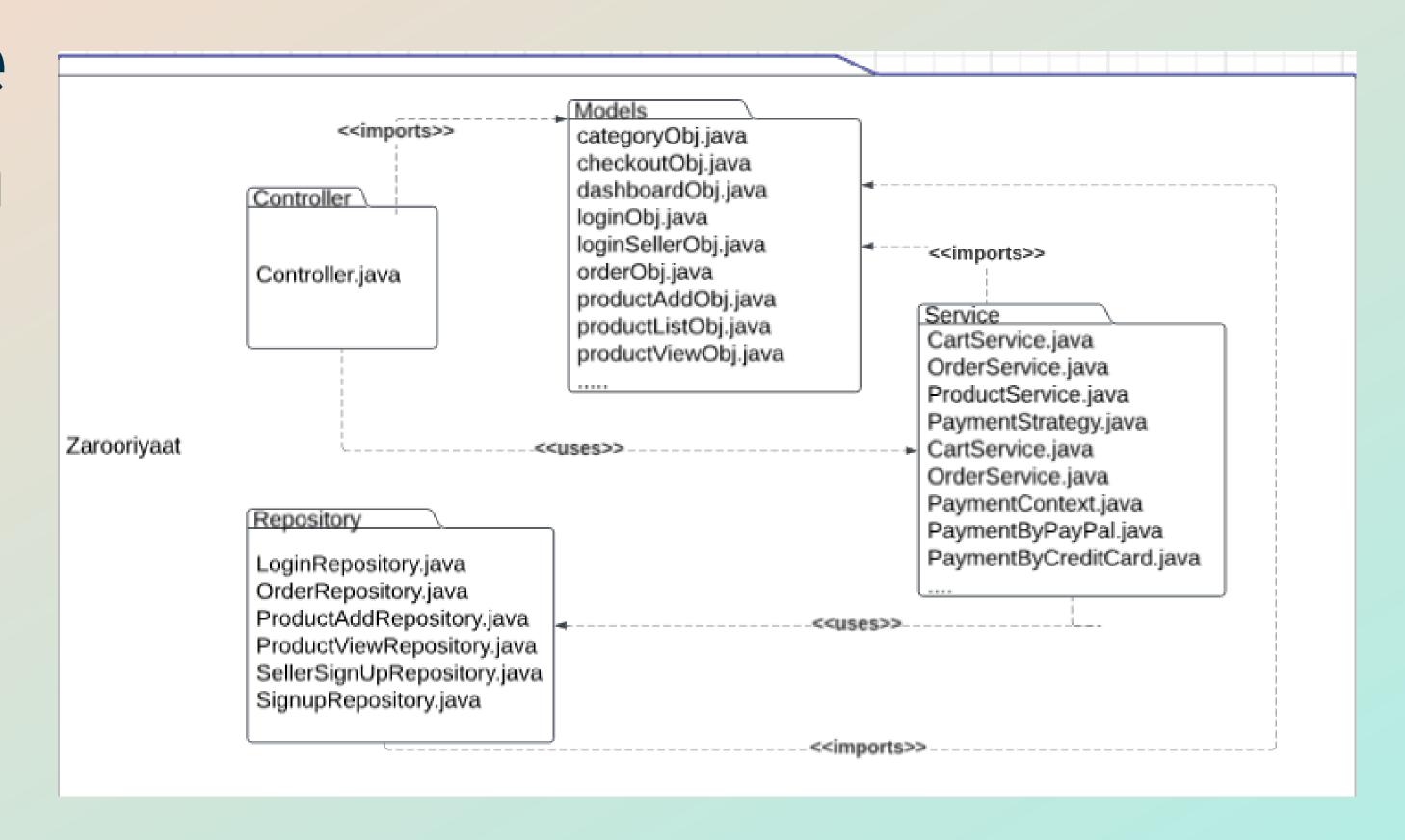
Design Document

Jan'25
Requirement
Analysis



Package Diagram

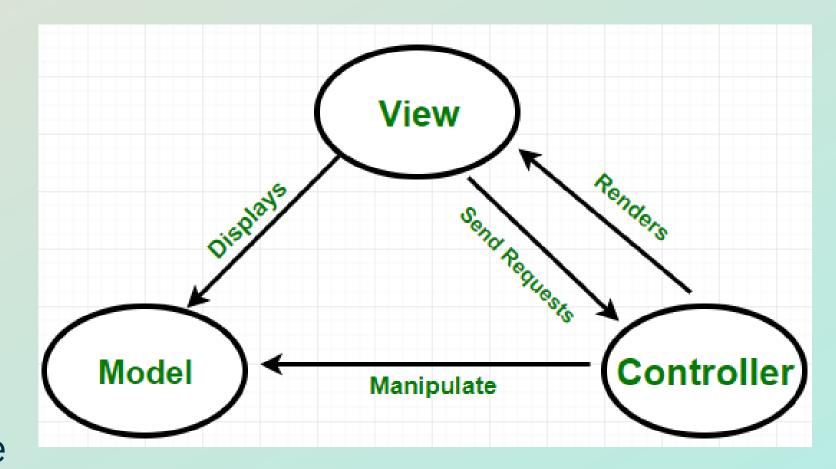
An abstract view of all the packages invloved



Architectural Style

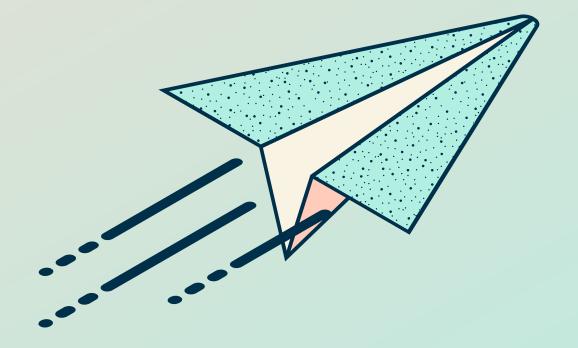
MVC Architecture Highlights

- Model: Handles business logic and data (Service and Repository layers in Spring Boot)
- View: Displays data to users (HTML/CSS frontend)
- Controller: Receives user requests and delegates to appropriate services.
- Separation of Concerns: Each layer manages a distinct responsibility
- Easier Maintenance and Scalability: Clear structure for future updates

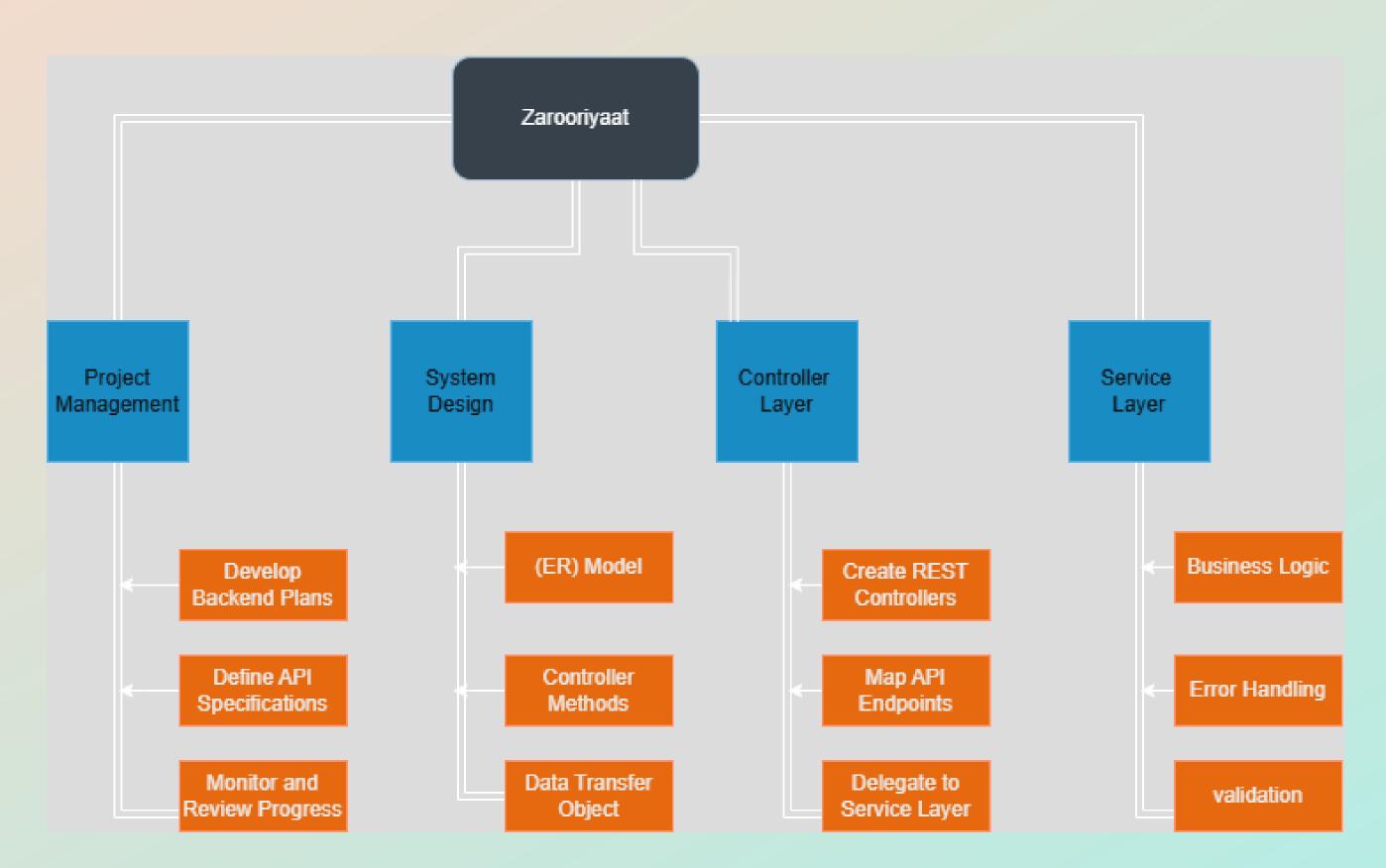




Project Planner



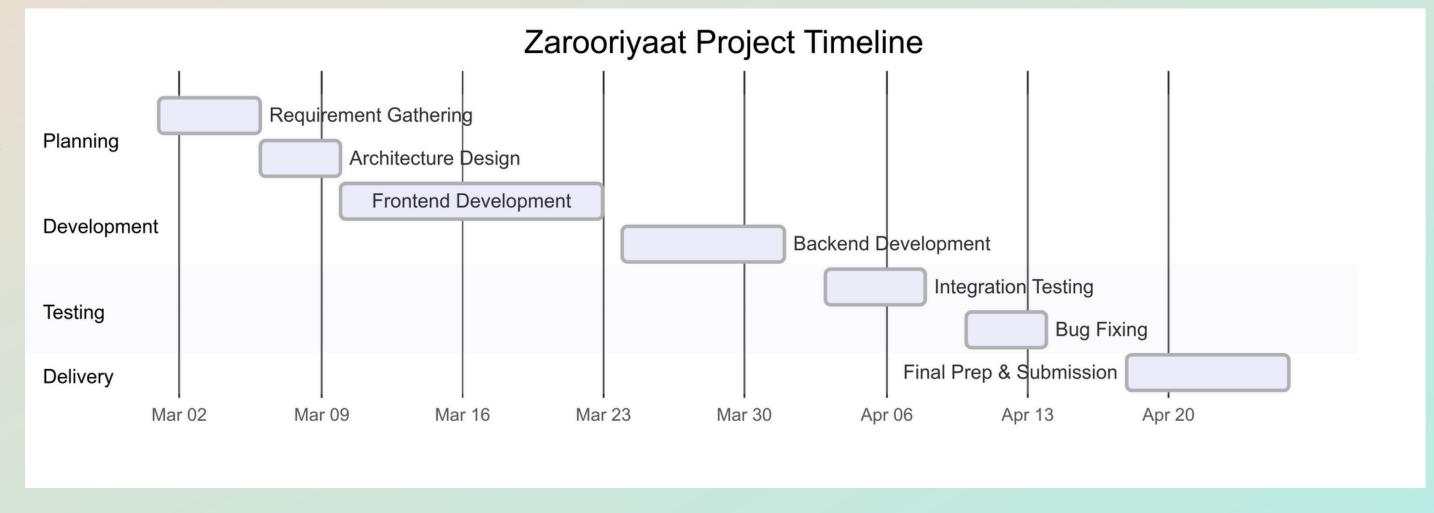
Work Breakdown Structure



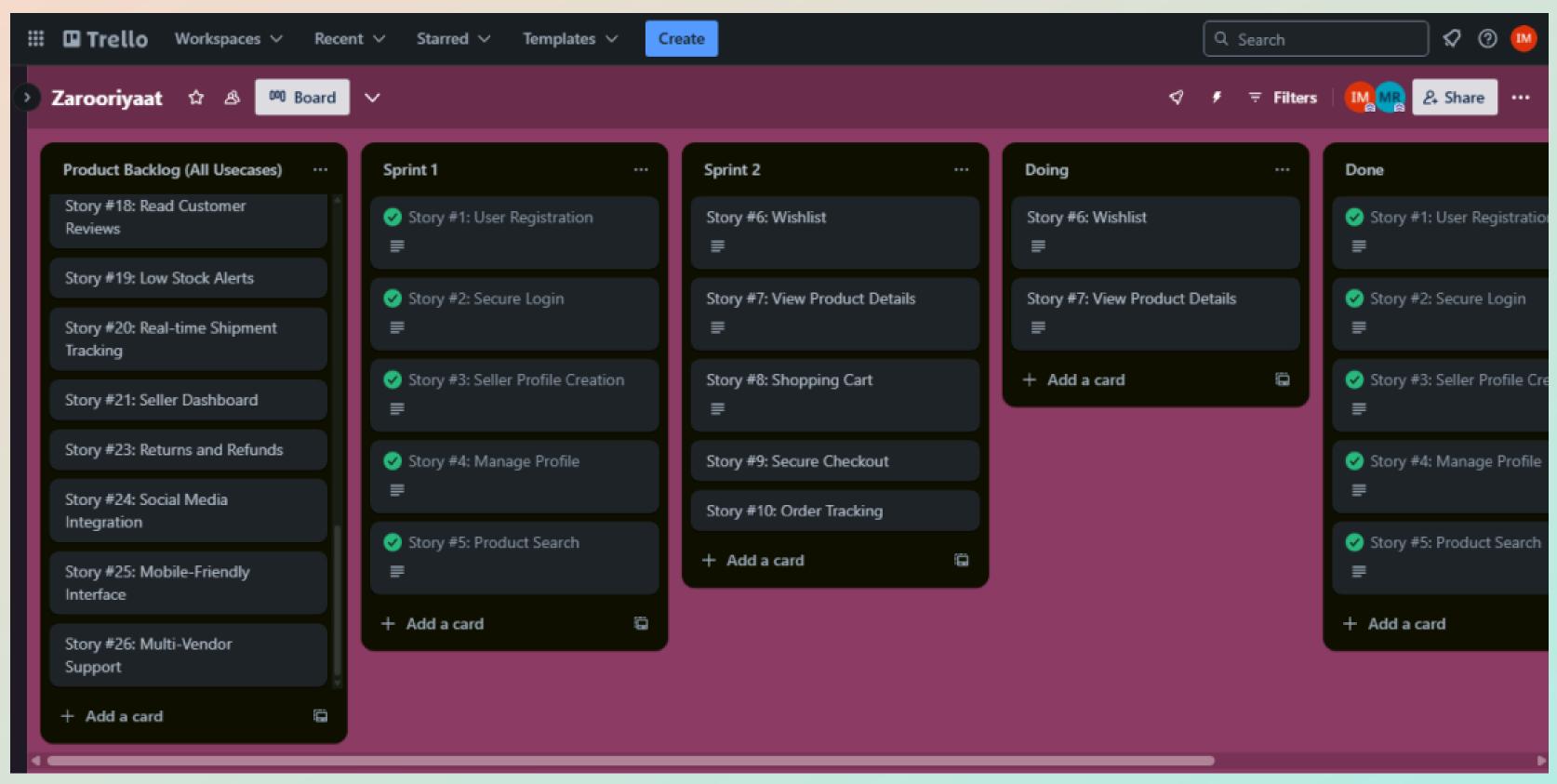
Gantt Chart

Zarooriyaat Project Timeline

- Y-axis lists the tasks.
- X-axis shows the timeline in days.
- Each bar spans from the task's start day for its duration.



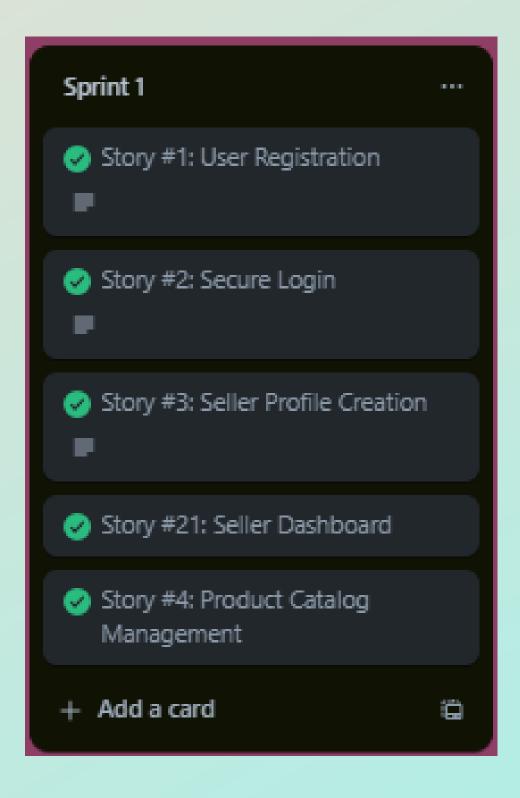
Sprint Planning



Sprint 1 Backlog

The following user stories were selected for Sprint 1:

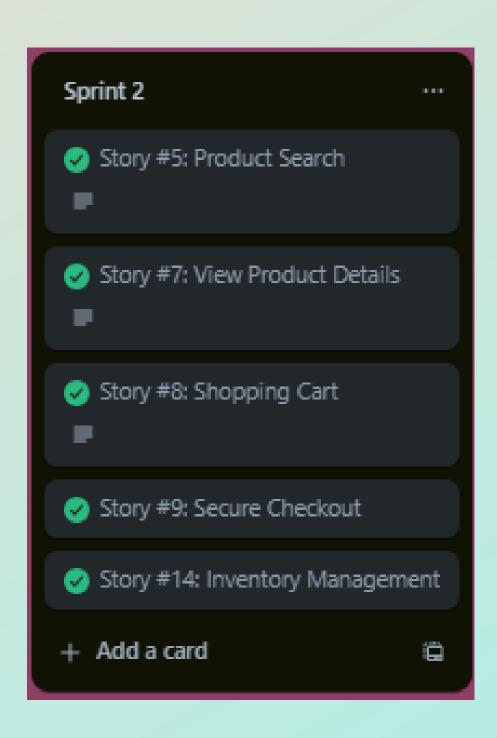
- 1. Story #1: User Registration (High Priority)
- 2. Story #2: Secure Login (High Priority)
- 3. Story #3: Seller Profile Creation (High Priority)
- 4. Story #21: Seller Dashboard (Medium Priority)
- 5. Story #4: Product Catalog Management (High Priority)



Sprint 2 Backlog

Sprint 2 focused on enhancing the buyer experience:

- 1. Story #5: Product Search (High Priority)
- 2. Story #7: View Product Details (High Priority)
- 3. Story #8: Shopping Cart(High Priority)
- 4. Story #9: Secure Checkout (High Priority)
- 5. Story #14: Inventory Managment (Medium Priority)



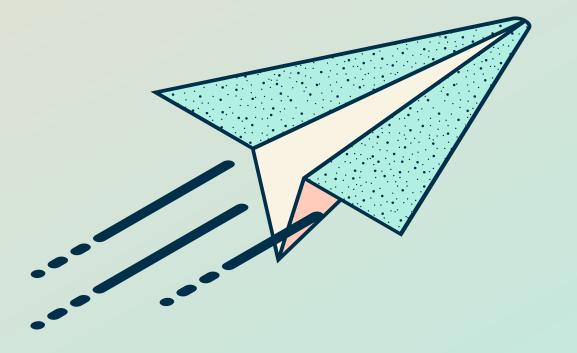
Sprint 3 Backlog

Sprint 3 finalized:

- 1. Story #15: Order Management (High Priority)
- 2. Story #16: Product Reviews (Medium Priority)
- 3. Story #12: Track Order(MediumPriority)
- and so on.



Important User Stories



Product Catalog Management (Seller Side)

As a seller, I want to manage my product catalog, So that I can add, edit, or remove products as needed.

Pre-conditions:

The seller must have a verified account.

Post-conditions:

- The catalog updates reflect in the product listings.
- Inventory levels are maintained.

Secure Checkout

As a buyer, I want to purchase items securely, So that I can complete my transactions without issues.

Pre-conditions:

- The user must have items in the cart.
- The user must provide valid payment details.

Post-conditions:

- Payment is securely processed.
- An order confirmation message is displayed.

Sales Analytics

As a seller, I want to view sales analytics, So that I can track my business performance.

Pre-conditions: The seller must have sales data.

Post-conditions: The system generates reports and trends

Product Feedback

As a buyer, I want to leave reviews and ratings, So that I can share my experience with other users.

Pre-conditions: The user must have purchased the product.

Post-conditions: The review appears on the product page.

Manage Profile

As a registered user, I want to update or delete my profile information, So that I can keep my account up to date or remove my presence from the platform.

Pre-conditions:

The user must be logged in.

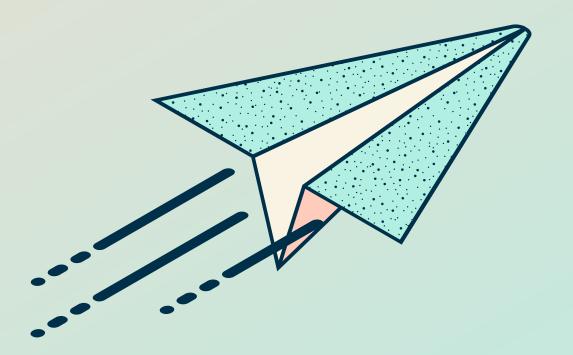
Post-conditions:

- The profile information is updated.
- Account deletion is permanent and irreversible.



Blackbox Testing

Testing without peeking at source—verifying inputs ↔ expected outputs





Blackbox Testing

Boundary Value Analysis

Username/password length: 1 char, min length, max length + 1.

Functional Test Cases

- "Add item to cart" with zero quantity → expect validation error.
- "Checkout" with no Payment → expect payment failure message.

Usability & UI Tests

Links/buttons render and navigate correctly on click.

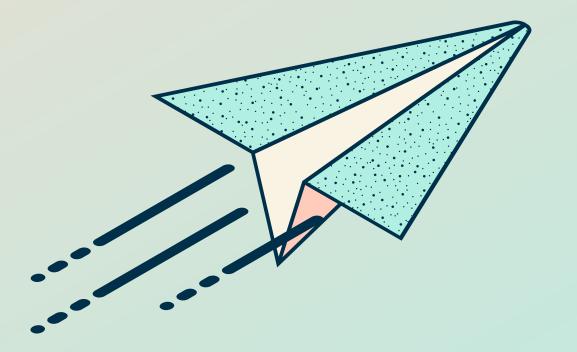


Blackbox Testing

```
@Test
void testSubmitReview_ValidInputs() {
    // Test Case 1: Valid product ID and rating
    assertTrue(reviewService.submitReview(validProductId, rating:5));
    assertEquals(expected:1, reviewRepository.findByProductId(validProductId).size());
@Test
void testSubmitReview_InvalidProductId() {
    // Test Case 2: Invalid product ID
    assertFalse(reviewService.submitReview(invalidProductId, rating:5));
    assertEquals(expected:0, reviewRepository.findByProductId(invalidProductId).size());
```



Tests that inspect internal code—covering branches, paths, and logic.





- Unit Tests (JUnit)
 - Services: e.g. ProductServiceTest covering addProduct() etc.
- Code Coverage
 - Aimed for 80%+ on core modules (controllers, services).
- Path & Branch Coverage
 - Tested both "if success" and "if failure" branches in checkout() logic.



Sample J-Unit Snippet:

```
@Test
void whenValidUser_thenAuthenticate() {
   User u = authService.login("test@x.com", "pass123");
   assertNotNull(u);
   assertEquals("test@x.com", u.getEmail());
}
```





Further Improvements

Payment Gateway Integration

 Add real online payment support using Stripe or PayPal instead of dummy checkouts

Dark Mode & Accessibility Features

 Add theme toggling, keyboard navigation, and screen-reader-friendly design.

OTP Verification & Email Notifications

 Send OTP for login/registration and notify users of order status or promotions.



Conclusion

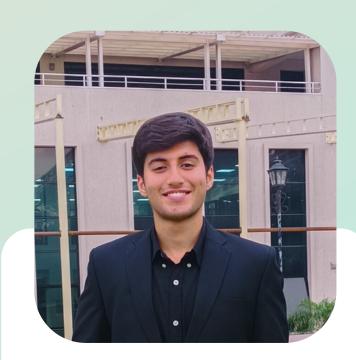
- **Key Takeaways:** Sprint planning and development in patterns like MVC.
- Team Reflection: Agile methadology and Trello/GitHub kept us aligned.

Meet the Team



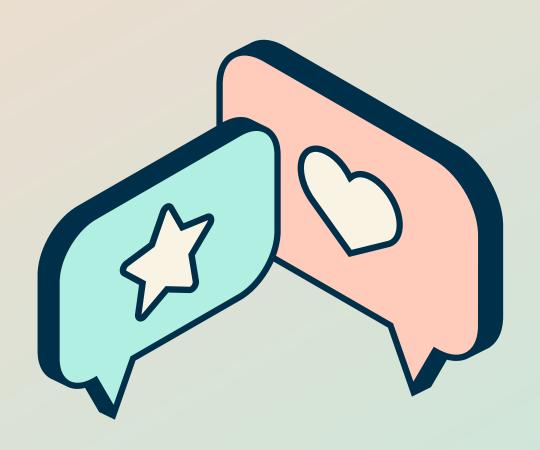
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THANK YOU!





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