

Flipkart Requirements Breakdown

1. Introduction

Flipkart is a leading e-commerce platform allowing users to browse, search, add to cart, and purchase products online. This document demonstrates how to break down Flipkart's functionality into Epics, Features, User Stories, and Tasks following Agile practices to facilitate clear tracking and incremental development using Azure DevOps.

2. Epics

Epics represent broad functional areas within Flipkart:

- **Epic 1:** User Account Management
- **Epic 2:** Product Search and Browsing
- **Epic 3:** Cart and Checkout
- **Epic 4:** Order Management
- **Epic 5:** Payments and Refunds

3. Features under Epics

Epic 1: User Account Management

- Feature 1.1: User Registration
- Feature 1.2: User Login/Logout
- Feature 1.3: Profile Management
- Feature 1.4: Password Reset

Epic 2: Product Search and Browsing

- Feature 2.1: Search by Product Name
- Feature 2.2: Filter and Sort Products
- Feature 2.3: Product Detail Page

Epic 3: Cart and Checkout

- Feature 3.1: Add to Cart
- Feature 3.2: Update Cart Items

- Feature 3.3: Checkout Process

4. User Stories under Features

Feature 1.1: User Registration

- **User Story 1:** As a new user, I want to register using my email and password so that I can create an account for shopping.
- **User Story 2:** As a new user, I want to register using my Google account so that I can sign up quickly.

Feature 2.1: Search by Product Name

- **User Story 1:** As a user, I want to search for products by their name so that I can find them quickly.

Feature 3.1: Add to Cart

- **User Story 1:** As a user, I want to add selected products to my cart so that I can purchase them later.

5. Tasks under User Stories

User Story: Register using email and password

- Task 1: Design and implement the registration form UI.
- Task 2: Add form validation for email format and password strength.
- Task 3: Connect the registration form to the backend API.
- Task 4: Store registered user data securely in the database.
- Task 5: Test the registration flow with valid and invalid inputs.

User Story: Add selected products to cart

- Task 1: Implement the 'Add to Cart' button on the product page.
- Task 2: Create a cart backend service to handle cart data.
- Task 3: Display added items in the cart summary.
- Task 4: Validate stock availability when adding to the cart.

7. Conclusion

Through this exercise, Flipkart's functionalities were effectively broken down using Agile practices, showing the clarity of EPIC > FEATURE > USER STORY > TASK alignment. Using Azure DevOps for tasks allows for practical familiarity with requirement tracking in an industry-standard tool.

This approach builds confidence in handling real-world Agile projects and efficiently managing development sprints and tracking work progress using structured practices.