Functional Requirements of E-Commerce website for buying and selling Farming Products

Introduction

1.1 Purpose
The purpose of this document is to outline the functional requirements for the development of a buying and selling Farming Products website.

1.2 Scope
This document will define the key features and functionalities that need to be implemented to replicate the core functionality of the Flipkart website.

1.3 Document Overview
This document provides a comprehensive overview of the functional requirements, including user registration and authentication, product listings, shopping cart, product reviews and ratings, order management, payment gateway integration, wishlist, user profile and settings, search and filtering, customer support, seller dashboard, and admin panel.

Functional Requirements

2.1 User Registration and Authentication

2.1.1 Description
Users shall be able to register an account, providing necessary details. The system shall authenticate users securely during the login process.

2.1.2 Dependencies
N/A

2.1.3 Acceptance Criteria
- Users should be able to successfully register an account and log in.
- User authentication should be secure and protect user credentials.

2.2 Product Listings

2.2.1 Description
Sellers shall have the ability to add products with comprehensive details, including title, description, price, images, and categorization. Users shall be able to search and browse products based on different criteria, such as categories, brands, and keywords.

2.2.2 Dependencies
N/A

2.2.3 Acceptance Criteria
- Sellers should be able to add products with accurate details.
- Users should be able to search and browse products based on various criteria.

[Add more functional requirements as needed]

User Registration and Authentication

3.1 User Registration

3.1.1 Description
Users shall have the ability to register an account by providing necessary information.

3.1.2 Dependencies
N/A

3.1.3 Acceptance Criteria
- Users should be able to successfully register an account with all required information.

3.2 User Authentication

3.2.1 Description
The system shall authenticate users securely during the login process.

3.2.2 Dependencies
N/A

3.2.3 Acceptance Criteria
- Users should be able to log in with their registered credentials securely.

Product Listings
4.1 Adding Products

4.1.1 Description
Sellers shall have the ability to add products with comprehensive details, including title, description, price, images, and categorization.

4.1.2 Dependencies

4.1.3 Acceptance Criteria
- Sellers should be able to add products with accurate details, including all required information.

4.2 Product Search and Browsing

4.2.1 Description
Users shall be able to search and browse products based on different criteria, such as categories, brands, and keywords.

4.2.2 Dependencies
N/A

4.2.3 Acceptance Criteria
- Users should be able to search and browse products based on various criteria accurately.

Shopping Cart

5*.1 Shopping Cart Functionality*

5.1.1 Description
The system shall provide a shopping cart feature, allowing users to add products, update quantities, and remove items.

5.1.2 Dependencies
N/A

5.1.3 Acceptance Criteria
- Users should be able to add products to the cart, update quantities, and remove items successfully.
- The shopping cart should accurately calculate the total price, including any applicable taxes or discounts.

Product Reviews and Ratings

6.1 Adding Reviews and Ratings

6.1.1 Description
Users shall have the capability to leave reviews and ratings for products.

6.1.2 Dependencies
N/A

6.1.3 Acceptance Criteria
- Users should be able to leave reviews and ratings for products.
- The system should display an average rating for each product accurately.
- Users should be able to sort and filter products based on ratings.

Order Management

7.1 Placing Orders

7.1.1 Description

Users shall be able to place orders for selected products.

7.1.2 Dependencies
N/A

7.1.3 Acceptance Criteria
- Users should be able to successfully place orders for selected products.
- The system should generate an order confirmation with all relevant details.

7.2 **Order Tracking**

7.2.1 Description
The system shall provide order tracking functionality, allowing users to track the status of their orders.

7.2.2 Dependencies
N/A

7.2.3 Acceptance Criteria
- Users should be able to track the status of their orders.
- The system should provide real-time updates on the progress of the shipment.

Payment Gateway Integration
8.1 Payment Gateway Integration
8.1.1 Description
The system shall integrate a secure payment gateway to facilitate online payments for purchases.

8.1.2 Dependencies
N/A

8.1.3 Acceptance Criteria
- Users should be able to make secure online payments for their purchases.
- The payment gateway should support multiple payment options, such as credit cards, debit cards, net banking, and digital wallets.

Wishlist

9.1 Wishlist Management

9.1.1 Description
Users shall have the ability to create and manage a wishlist of desired products.

9.1.2 Dependencies
N/A

9.1.3 Acceptance Criteria
- Users should be able to create and manage their wishlist.
- Users should be able to add or remove items from the wishlist.
- Users should receive notifications for price drops or availability changes of wishlist items.

User Profile and Settings

10.1 User Profile Management

10.1.1 Description
Users shall have a dedicated profile section to manage their personal information, shipping addresses, payment methods, and communication preferences.

10.1.2 Dependencies
N/A

10.1.3 Acceptance Criteria
- Users should be able to update their personal information, including name, email, and contact details.
- Users should be able to manage their shipping addresses and payment methods.
- Users should have control over their communication preferences, such as email subscriptions or notifications.

Search and Filtering

11.1 Search Functionality

11.1.1 Description
The system shall implement a robust search functionality, enabling users to search for products based on keywords, categories, brands, price ranges, and other relevant filters.

11.1.2 Dependencies
N/A

11.1.3 Acceptance Criteria
- Users should be able to search for products based on keywords accurately.
- Users should have the ability to apply filters and refine search results based on categories, brands, and price ranges.

Customer Support

12.1 Customer Support System

12.1.1 Description
The system shall incorporate a customer support system, such as live chat, email support, or a helpdesk system, to assist users with their queries, complaints, or requests.

12.1.2 Dependencies
N/A

12.1.3 Acceptance Criteria
- Users should have access to customer support channels for assistance.
- Customer support requests should be handled promptly and efficiently.

Seller Dashboard

13.1 Seller Dashboard Functionality

13.1.1 Description
Sellers shall have access to a dedicated dashboard to manage their products, orders, inventory, pricing, and other relevant information.

13.1.2 Dependencies
N/A

13.1.3 Acceptance Criteria
- Sellers should be able to view and manage their product listings.
- Sellers should have access to order details, including shipment information and customer details.

- Sellers should be able to update inventory status and pricing information.

Admin Panel

14.1 Admin Panel Functionality

14.1.1 Description
The system shall provide an administrative panel to manage the overall operation, including user management, product management, order management, and site configuration.

14.1.2 Dependencies
N/A

14.1.3 Acceptance Criteria
- Admins should have access to user management features, including user roles, permissions, and account moderation.
- Admins should be able to manage product listings, including approvals, updates, and removals.
- Admins should have control over order management and site configuration settings.

Glossary

N/A
Appendix A: References

N/A
Appendix B: Revision History
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