Software Requirements Specification (SRS)

Agri Shop : Farmers Online Selling Platform

SOFTWARE REQUIREMENT SPECIFICATION (SRS)

Introduction

Purpose of the System

Scope of the Project

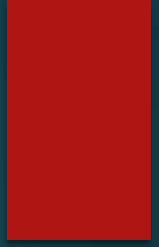Functional Requirements

Non-Functional Requirements

System Features

System Architecture

Use Case Diagram
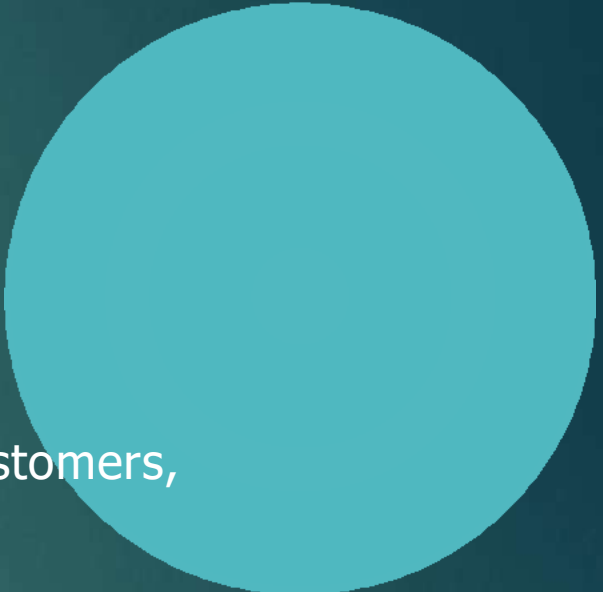
Conclusion

<u>Introduction</u>

•Agriculture is the primary source of livelihood for millions.

•Farmers often struggle due to:
- Low profits (middlemen exploitation).
- Lack of direct access to buyers.
- Poor information about demand & pricing.

•An **online selling platform** helps farmers sell directly to customers, ensuring fair trade.

Purpose of the System

•Provide a **digital marketplace** for farmers to sell crops & products.

•Allow customers to buy **fresh farm produce at fair prices**.

•Reduce dependency on **middlemen**.

•Enable farmers to **track sales and payments**.

•Improve transparency and trust in agricultural trade.

Scope of the Project

- **Users:** Farmers, Customers, Admin.

- **Platform:** Web & Mobile Application.

- **Core Features:**
  - Farmers: Register, upload products, set price, manage inventory.
  - Customers: Search products, compare prices, buy & track orders.
  - Admin: Monitor users, transactions, resolve disputes.

- **Extended Features:**
  - Payment gateway integration.
  - Delivery tracking system.
  - Multilingual support for farmers.

Functional Requirements

1. User Authentication: Secure login for farmers, customers, and admin.

2. Farmer Module:
1. Add products with images, price, stock, expiry date.
2. View sales history and revenue.
3. Manage pending and delivered orders.

3. Customer Module:
1. Browse products by category (vegetables, fruits, grains, etc.).
2. Search and filter by price/location.
3. Place and track orders.
4. Provide ratings & reviews.

1. Admin Module:
1. Verify farmer accounts.
2. Manage disputes & feedback.
3. Generate transaction reports.

2. Notifications: Alerts for order confirmation, delivery updates, and new arrivals.

3. Payment System: UPI, Net banking, Card payments.

Non-Functional Requirements

•**Performance:**
- Handle at least 10,000 concurrent users.
- Quick product search (<2 seconds).

•**Security:**
- Data encryption for transactions.
- Two-factor authentication for login.

•**Scalability:**
- Ability to expand to multiple states/countries
- .

•**Usability:**
- Simple and intuitive UI for rural farmers.
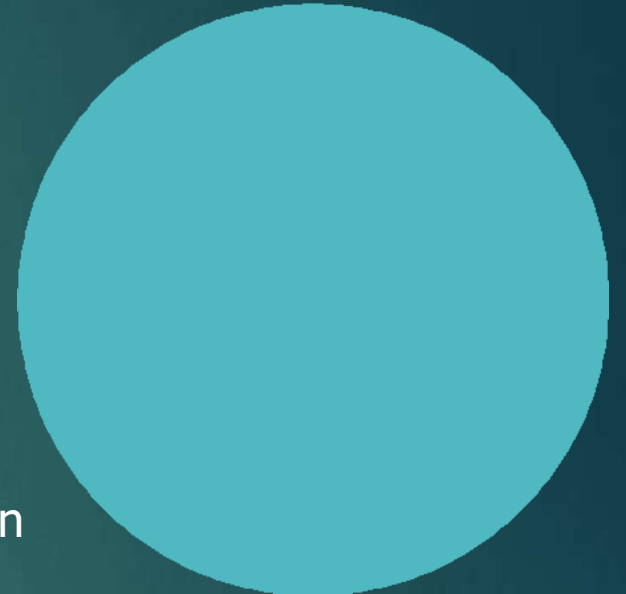- Multilingual support (local languages).

•**Reliability:**
- System uptime of 99%.
- Automatic backup and recovery.

System Features

- Real-time product listing & availability.
- Price comparison across farmers.
- Order tracking & history.
- Customer support & chat system.

- Reports:
  - For Farmers → Sales, demand trends.
  - For Admin → System usage, transaction history.

- Rating & review system for quality assurance.

System Architecture

• **Presentation Layer :** Farmer app, Customer app.

• **Application Layer :** Order management, payment processing, notifications.

• **Database Layer :** Stores farmer profiles, products, *transactions, and feedback.*

Use Case Diagram

• **Actors :** Farmer, Customer, Admin.

• **Scenarios :**

- Farmer → Add product, manage inventory, check sales.
- Customer → Browse, order, pay, track delivery.
- Admin → Verify farmers, manage disputes, generate reports.

Conclusion

•Agri Shop bridges the gap between **farmers & consumers**.

•Benefits:
  • Farmers get better profits.
  • Customers get fresh produce.
  • Reduced exploitation by middlemen.

•**Future Scope:**
  • AI-based crop demand prediction.
  • Blockchain for transparent transactions.
  • IoT-based storage and supply chain monitoring.

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THANK YOU