

Requirement Gathering

Date: 15-1-2025

1. Project Overview:

Green Grocery is an innovative online platform that bridges the gap between local farmers, customers, and delivery workers to make accessing fresh fruits and vegetables more convenient. The platform allows customers to browse, order, and review fresh produce online while providing access to recipes, nutritional information, and health tips. Farmers can manage their products, fulfill orders, and benefit from educational resources such as tutorials on farming techniques, pest control, and organic farming, as well as insights into crop demand and pricing trends. Delivery workers can efficiently manage their tasks and update delivery progress in real-time. By combining technology, education, and community-building, Green Grocery enhances the process of buying and selling fresh produce, making it more efficient and beneficial for everyone involved.

2. System Scope:

Green Grocery is envisioned as a fully operational online marketplace catering to the needs of consumers, farmers, and delivery personnel. Unlike a prototype or research-oriented project, the system is designed for real-world implementation, providing practical solutions to streamline the process of buying and selling fresh produce. Its comprehensive scope includes a user-friendly interface for customers to browse and purchase products, tools for farmers to manage inventory and orders, and features for delivery personnel to track and update delivery progress. By integrating educational resources, market insights, and feedback mechanisms, the system aims to establish itself as a holistic and sustainable platform for the fresh produce supply chain.

3. Target Audience:

- **Customers:** Individuals seeking fresh produce, utilizing features like browsing, ordering, delivery scheduling, and the review module for feedback and ratings.
- **Farmers/Suppliers:** Producers listing and selling produce while benefiting from the educational module with tutorials, pest control tips, and market trends.
- **Delivery Personnel:** Individuals managing deliveries and updating progress to ensure timely order fulfillment.
- **Admin:** Managers overseeing platform operations, user management, product approvals, and the smooth functioning of the educational and review modules.

4. Modules:

Customer Portal:

- User registration and login.
- Product browsing and search.
- Shopping cart and checkout.
- Order tracking and delivery status.
- Access to nutritional information, recipes, and product reviews.
- Review and rating system with options to add, edit, or delete feedback.

Supplier Portal:

- Registration and login.
- Inventory management (listing, updating, and removing products).
- Order management (viewing, accepting, and fulfilling orders).
- Access to the educational module for farming tutorials, pest control tips, and market trends.

Delivery Management Portal:

- Login.
- View and manage delivery assignments.
- Delivery tracking and status updates.

Admin Portal:

- User management and access control.
- Manage customer reviews and ratings.
- Track stock levels.
- Oversee the educational module and ensure resources are up-to-date.
- Monitor the review module for quality and policy compliance.

Educational Module

- **Login Page:** Farmers can log in to access the educational resources.
- **Learning Materials:** Provides tutorials and guides on various farming topics, such as advanced farming techniques, pest control methods, organic farming, and sustainable practices.

- **Market Trends:** Updates on crop demand, pricing trends, and market forecasts to help farmers make informed decisions.
- **Agricultural Webinars:** Regularly scheduled webinars or online workshops on different farming subjects to further educate farmers and enhance their skills.
- **Crop Health Tips:** Educational content focused on managing crop diseases, pests, and soil health to ensure better yield and quality.
- **Farm Management Tools:** Guidance on using technology to optimize farm management, including tools for tracking harvests, managing finances, and maximizing productivity.

5. User Roles

- **Customers:** Can register, browse and search for products, place orders, track deliveries, access nutritional information and recipes, and leave reviews and ratings for products.
- **Farmers/Suppliers:** Can register, list products, manage inventory (update, add, or remove items), and view and accept customer orders.
- **Delivery Personnel:** Can register, view assigned deliveries, update delivery status, and access customer contact information to ensure timely delivery.
- **Admin:** Has full access to manage users, control user roles and access levels, oversee customer reviews and ratings, monitor stock levels, and ensure the smooth operation of the platform.

6. System Ownership

The system is owned by an organization, specifically a company that operates within the agricultural.

7. Industry/Domain

The system is related to the agricultural industry, focusing on the online sale and distribution of fresh fruits and vegetables.

8. Data Collection Contacts

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9. Questionnaire for Data Collection:

1. What type of farming techniques would you like to learn more about?

Answer: Organic farming, Pest control methods, Soil health improvement, Irrigation techniques, Crop rotation.

2. Would you prefer learning through written tutorials or video tutorials?

Answer: Video tutorials.

3. How often would you like to receive new farming tips and tutorials?

Answer: Weekly.

4. Would you like to have a section on how to increase the marketability of your crops?

Answer: Yes.

5. Do you think information on crop pricing and demand is useful for your farming business?

Answer: Yes.

6. Would you like to receive notifications about upcoming webinars or workshops on farming techniques?

Answer: Yes.

7. What kind of pest control methods would you like to learn more about?

Answer: Natural pest control.

8. Would you be interested in learning about sustainable farming practices?

Answer: Yes.

9. Do you need help in understanding crop disease management and prevention?

Answer: Yes .

10. Would you like to have a community forum where you can share farming experiences and ask questions?

Answer: Yes.

