

REQUIREMENT GATHERING

Date: 16-08-2024

1. Project Overview:

Rambutan Warehouse is an online platform designed to streamline the sale and distribution of rambutan fruits and related products. It provides an integrated space for farmers to sell their produce, for wholesale buyers to purchase in bulk, and for regular users to buy processed rambutan goods. The main objective is to enhance the rambutan trade by offering a seamless, user-friendly platform that connects various stakeholders in the industry.

2. System Scope:

The Rambutan Warehouse system is a full-scale implementation designed to handle real-time transactions and inventory management for rambutan farmers, buyers, and administrators. It aims to be a fully functional e-commerce platform tailored to the rambutan trade.

3. Target Audience:

The primary target audience includes rambutan farmers, wholesale buyers, regular consumers interested in rambutan products, and platform administrators. Each user group has specific functionalities tailored to their needs, ensuring an inclusive platform that meets the demands of all stakeholders involved in the rambutan trade.

4. Modules:

Key modules of the system include:

1. **Farmer Management Module:** Allows farmers to register, list their produce, manage inventory, and monitor sales.

2. Wholesale Buyer Module: Enables bulk orders, pricing negotiations, and delivery scheduling.
3. Product Management Module: Manages the listing of various rambutan products, including fresh fruits and processed goods.
4. User Authentication Module: Handles user registration, login, and secure authentication processes.
5. Payment Processing Module: Facilitates secure and efficient transaction handling for all users.
6. Administrator Module: Provides tools for system oversight, user management, and issue resolution.

5. User Roles:

1. Farmers: Can list and manage rambutan produce, track inventory, and monitor sales.
2. Wholesale Buyers: Place bulk orders, negotiate prices, and manage deliveries.
3. Regular Users: Purchase rambutan products like jam, ice cream, wine, etc.
4. Administrators: Oversee platform operations, resolve issues, and ensure system integrity.

6. System Ownership:

The Rambutan Warehouse system is owned and operated by an organization dedicated to promoting rambutan trade, providing resources for farmers, and ensuring product availability to consumers.

7. Industry/Domain:

The system is related to the agriculture and e-commerce domain, specifically focusing on the trade and distribution of rambutan fruits and their derivatives.

8. Data Collection Contacts:

Data for the system was collected through interactions with rambutan farmers, agricultural experts. Specific contacts and their roles include:

1. Shibu Thomas - Farmer - 9526025052
2. Tony – Agriculture officer - 94473 24332

9. Questionnaire for Data Collection:

1. What challenges do farmers face in selling rambutan?

Farmers often face challenges such as fluctuating market prices, limited access to buyers, and difficulties in transporting their produce to marketplaces. They may also struggle with marketing their products and reaching a broader audience. Additionally, the perishability of rambutan makes it crucial to sell the produce quickly, adding pressure to find buyers promptly.

2. How do wholesale buyers typically purchase rambutan?

Wholesale buyers usually purchase rambutan in large quantities directly from farmers or through intermediaries. They often prefer bulk purchases to get better pricing and may negotiate based on the quality and size of the harvest. Buyers typically require consistent supply and may establish long-term relationships with trusted farmers to ensure a steady flow of produce.

3. What rambutan products are most popular among consumers?

Rambutan products that are popular among consumers include jams, pickles, ice cream, wine, and juice. These processed products offer convenience and extended shelf life compared to fresh rambutan. The demand for such products is often driven by their exotic flavour, nutritional value, and versatility in culinary uses.

4. What pricing model is preferred by farmers?

Farmers generally prefer a pricing model that guarantees fair compensation for their produce, often favoring direct sales or minimum price guarantees. They might also appreciate the ability to participate in bidding or auction systems that allow them to potentially earn higher prices based on demand. Transparent pricing mechanisms that reflect market conditions and production costs are highly valued.

5. How do buyers prefer to schedule deliveries?

Buyers typically prefer flexible delivery schedules that can be tailored to their needs, with options for both immediate and scheduled deliveries. They often seek timely deliveries that align with their inventory and sales cycles, and appreciate the ability to track and manage their orders online. Reliability in delivery timing is crucial to maintaining freshness, especially for perishable goods like rambutan.

6. How do buyers prefer to communicate with sellers?

Buyers generally prefer to communicate with sellers through direct phone calls, messaging apps like WhatsApp, or emails. These methods allow for quick and personalized interactions, enabling buyers to ask specific questions, negotiate prices, and arrange delivery details. In some cases, buyers may also meet sellers in person at markets or through established networks to discuss transactions but these are time consuming process.

7. What are the most critical features for an online agricultural marketplace?

Key features include user-friendly interfaces for both buyers and sellers, secure payment and transaction processing, real-time inventory tracking, and robust search and filter options for products. Additionally, transparent pricing, quality assurance mechanisms, and reliable logistics and delivery options are critical to ensure customer satisfaction. Support for multiple languages and currencies can also enhance accessibility and reach.

8. How do farmers track their inventory?

Farmers typically track their inventory using manual records, spreadsheets, or agricultural management software that allows them to monitor their stock levels, sales, and harvest schedules. Some may also use mobile apps or integrated systems provided by agricultural marketplaces to manage inventory in real-time.

9. What support do farmers need for marketing their produce?

Farmers often need assistance with digital marketing, including social media promotion, online sales platforms, and content creation to showcase their produce. They may also benefit from training on branding, packaging, and reaching new markets. Access to market data and insights can help them make informed decisions about pricing and distribution strategies.

10. How important is the ability to compare prices and quality from different sellers when purchasing rambutan?

Buyers prefer platforms that offer transparency in pricing and quality. Knowing that I can compare different sellers before making a purchase gives me confidence that I'm making the right choice.