

VASAVI COLLEGE OF ENGINEERING

(AUTONOMOUS)

(Affiliated to Osmania University)
Ibrahimbagh, Hyderabad – 500 031.

DEPARTMENT OF : COMPUTER SCIENCE AND ENGINEERING

NAME OF THE LABORATORY : CC LAB

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Experiment-I: Software Requirements Specification (Meatconnect-B2B Meat Supply)

1. Introduction

1.1 Purpose of the Document

The purpose of this document is to define the specifications, functionalities, and requirements for **MeatConnect**, a B2B meat supply platform. The document provides a comprehensive overview of the system's objectives, features, and user interactions to guide stakeholders in its development and implementation.

1.2 Scope

MeatConnect is designed to streamline the buying and selling of meat products between suppliers and buyers. The platform facilitates order management, product listing, supplier-buyer communication, transaction handling, and logistics tracking. It aims to improve efficiency, transparency, and reliability in the B2B meat supply chain.

Definitions, Acronyms, and Abbreviations • SRS: Software Requirements Specification

- **Admin:** Platform Administrator
- **Supplier:** Meat suppliers who list and sell their products
- **Buyer:** Businesses purchasing meat products from suppliers

1.3 Overview

- **SRS:** Software Requirements Specification
- **Admin:** Platform Administrator
- **Supplier:** Meat suppliers who list and sell their products
- **Buyer:** Businesses purchasing meat products from suppliers

2. General Description

2.1 Product Functions

2.2 MeatConnect includes the following core functionalities:

1. Supplier registration and profile management
2. Buyer registration and verification
3. Product listing and inventory management
4. Order placement and tracking
5. Secure payment processing and invoicing
6. Real-time stock updates and notifications
7. Communication and support system between buyers and suppliers

2.3 Intended Users

- **Suppliers:** Register on the platform, list products, manage inventory, and process orders.
- **Buyers:** Browse products, place orders, make payments, and track shipments.
- **Platform Admin:** Oversees system operations, user management, and dispute resolution.

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3. Specific Requirements

3.1 Supplier Requirements

3.2 Product Management:

- Add, edit, and delete meat products.
- Set product pricing and stock availability.
- Receive alerts for low inventory.

3.3 Product Managers

- View, accept, or decline orders.
- Update order status (processing, shipped, delivered).
- Manage invoices and transactions.

3.4 Buyer features

Order Placement

- Add products to cart and place bulk orders.
- Track order status from confirmation to delivery.
- Generate invoices for completed orders.

Product Browsing & Search

- Search for specific meat products based on category, price, and availability.
- View detailed product information, including supplier details and ratings.

1. Functional Requirements:

1.1 User Management:

1.1.1 The system should allow Store Admin to add, remove, and update employee information, including name, contact details, and role within the store.

1.1.2 Store Admin should be able to assign specific roles and access levels to employees, such as cashier, inventory manager, or supervisor.

1.1.3 The system should authenticate users before granting access to sensitive functionalities or data.

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1.2 Product and inventory management:

1.2.1 Store Admin should be able to monitor net income and expenditure for the store, including sales revenue, expenses, and profits.

1.2.2 The system should provide detailed financial reports and analytics to help Store Admin analyze trends, identify areas for improvement, and make informed decisions

1.2.3 End Users should be able to generate bills for purchases made in the store, including itemized lists of products, quantities, prices, and total amounts.

1.3 Order and payment processing:

1.3.1 Product Managers should be able to maintain records of all products sold in the store, including product names, descriptions, categories, prices, and quantities in stock.

1.3.2 Product Managers should have the ability to monitor stock levels for different products and receive notifications when stock levels are low or when products are nearing expiration.

1.3.3 Product Managers should be able to add new products to the system, remove discontinued products, and update product information as needed.

1.4 Communication & notification:

1.4.1 End Users should be able to search for details of specific products, including availability, prices, and descriptions.

1.4.2 End Users should be able to add products to a virtual shopping cart, specify quantities, and proceed to checkout for billing.

1.4.3 The system should generate accurate bills for each transaction, applying any applicable discounts, taxes, or promotions.

2. Non-functional Requirements:

2.1 Usability:

2.1.1 The system should have an intuitive user interface that is easy to navigate and understand, reducing the need for extensive training.

2.1.2 Response times for user interactions, such as searching for products or processing transactions, should be minimal to enhance user satisfaction.

2.2 Reliability:

2.2.1 The system should be available and accessible to users at all times during operating hours, with minimal downtime for maintenance or updates.

2.2.2 Data integrity and consistency should be maintained, ensuring that all transactions are accurately recorded and reflected in the system.

2.3 Security:

2.3.1 The system should implement robust security measures to protect sensitive data, including customer information, financial records, and employee details.

2.3.2 Access to sensitive functionalities or data should be restricted based on user roles and permissions, with authentication mechanisms in place to verify user identities.

2.4 Performance:

2.4.1 The system should be capable of handling a high volume of concurrent users and transactions without experiencing performance degradation or slowdowns.

2.4.2 Database queries and data retrieval operations should be optimized for efficiency to

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minimize response times and maximize throughput.

3. External Interface Requirements:

3.1 User Interface:

3.1.1 The system should have a user-friendly web-based interface accessible via standard web browsers on desktop and mobile devices.

3.1.2 The user interface should support multiple languages and provide accessibility features to accommodate users with disabilities.

3.2 Integration:

3.2.1 The system should integrate with external payment gateways to facilitate secure online payments for purchases made by end users.

3.2.2 Integration with barcode scanners and point-of-sale (POS) hardware should be supported to streamline checkout processes and inventory management tasks.

4. System Requirements:

4.1 Hardware:

4.1.1 The system should be compatible with standard hardware configurations, including desktop computers, laptops, tablets, and mobile devices.

4.1.2 Minimum hardware specifications should be provided, including processor, memory, and storage requirements, to ensure optimal performance.

4.2 Software:

4.2.1 The system should be compatible with popular operating systems such as Windows, macOS, and Linux.

4.2.2 Required software components, including web servers, database management systems, and development frameworks, should be specified along with version compatibility.

4.2.3 The system should support modern web browsers such as Google Chrome, Mozilla Firefox, Microsoft Edge, and Safari.

5. Documentation and Training Requirements:

- User manuals and video tutorials for suppliers and buyers.
- Customer support for troubleshooting issues.

6. Legal and Regulatory Requirements:

- The system should comply with relevant data protection and privacy regulations, such as Compliance with food safety and e-commerce regulations.
- GDPR-compliant data handling and privacy policies.

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