

SRS for Online Grocery Management System

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1. Introduction

1.1 Purpose

The purpose of this document is to define the software requirements for an online grocery website, outlining its features, functionalities, and constraints.

1.2 Scope

This SRS covers the functional and non-functional requirements, system features, and constraints of the online grocery website. It is intended for developers, testers, and stakeholders.

1.3 Definitions, Acronyms, and Abbreviations

SRS: Software Requirements Specification

UI: User Interface

API: Application Programming Interface

DB: Database

1.4 References

List of relevant documents, laws, and standards used for the development and operation of the online grocery website.

1.5 Overview

The online grocery website is designed to provide a convenient platform for users to browse, select, purchase, and manage groceries online. It aims to simplify the shopping experience and improve efficiency for both customers and administrators.

2. General Description

2.1 Product Perspective

The online grocery website will be a standalone system interacting with users through a web interface. It may integrate with external payment gateways and utilize APIs for location services.

2.2 Product Functions

- User registration and authentication
- Browse products by categories and search for specific items
- View detailed product information and images
- Add/remove items to/from the shopping cart
- Place and manage orders
- Secure payment processing
- Track order status and delivery updates
- User account management

2.3 User Characteristics

The users of the online grocery website include:

- General customers
- Administrators
- Customer support

2.4 General Constraints

- Compliance with legal and regulatory requirements
- Cross-browser and cross-platform compatibility
- Performance expectations (specified in Section 3.3.2)

2.5 Assumptions and Dependencies

- Availability of a stable and secure internet connection
- Integration with reliable payment gateways
- Integration with a reliable mapping service for location-based features

3. Specific Requirements

3.1 Functional Requirement

- Detailed functional requirements including use cases, process flows, and specific functionalities for each feature.

3.2 Design Constraints

- User interface design requirements, including wireframes and mockups
- Design guidelines and principles for a consistent and intuitive user experience

3.3 Non-Functional Requirements

3.3.1 Security

- User data encryption
- Secure authentication and authorization mechanisms
- Protection against common web vulnerabilities (e.g., SQL injection, XSS)

3.3.2 Performance Requirements

- Page load time (specified in milliseconds)
- Concurrent user handling capacity
- Database response time

3.3.3 Maintainability

- Modularity and scalability for future enhancements
- Code maintainability and version control practices

3.3.4 Reliability

- System availability (specified in percentage)
- Backup and recovery procedures in case of system failures

4. Conclusion

This SRS defines the requirements for the development of an online grocery website, aiming to provide a secure, efficient, and user-friendly platform for online grocery shopping. It encompasses functional and non-functional aspects to guide the development and ensure a successful product.

