

Software Requirement Specifications

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Software Requirement Specifications

Brief Introduction

This Software Requirements Specification (SRS) outlines the functional and non-functional requirements for a cross-platform food ordering application, ensuring compatibility across popular mobile operating systems and scalable backend services.

Product Description

The product is a mobile and optionally web-based food ordering application that allows users to browse food items, place orders, receive real-time updates, and securely manage accounts. It is designed for use on smartphones and tablets (iOS 14+/Android 8.0+), with network resilience and secure backend integration supporting high concurrency.

Functional Requirements

1. The system shall allow users to browse a catalog of available food items. 2. The system shall enable users to place orders for selected food items. 3. The system shall provide order status updates to users in real-time. 4. The system shall support secure user authentication for placing and tracking orders.

Non-Functional Requirements

- Device and OS compatibility (iOS 14+/Android 8.0+, tablets optional).
- Support for Wi-Fi and mobile networks (3G/4G/5G) with minimum bandwidth for images/menus.
- Offline browsing of cached menus.
- Secure RESTful/GraphQL API over HTTPS.
- Scalability for at least 10,000 users (load balancing).
- Cross-browser support (Chrome, Safari, Firefox, Edge).
- Local caching and RAM usage constraints.
- Real-time order updates under 5 seconds response time.

- User data encrypted at rest and in transit.

References

Requirements Model (use case diagram), standard SRS templates, and referenced requirement documents.