Software Requirement Specifications

Software Requirement Specifications

Brief Introduction

This Software Requirements Specification (SRS) defines the functional and non-functional requirements for a mobile and web-based food ordering application, leveraging upstream requirement models and operational environment definitions.

Product Description

The product is a food app platform that enables customers to browse menus, place orders, and receive real-time updates, while allowing restaurants to manage menus and orders, with secure user authentication and robust backend support. The app supports smartphones (iOS/Android), modern web browsers, secure API communication, and local caching for performance and offline use.

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 Compatibility: iOS (14+) and Android (8.0+), responsive to orientation; web support for Chrome, Safari, Firefox, Edge. - Network: Operates on Wi-Fi/3G/4G/5G, supports minimum bandwidth, offline browsing for cached menus. - Backend/API: Secure HTTPS, load-balanced for 10,000+ users. - Storage/Memory: Local caching, RAM optimization. - Browser graceful degradation. - Support for OS updates for 2 years.

References

- IEEE 830 SRS Template - SQUARE Method for Security Requirements - Original Use Case Diagram (base64 included)