**SOFTWARE**

**REQUIREMENTS**

**SPECIFICATION**

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**1. Introduction**

1.1 Purpose

This document outlines the software requirements for the MOS Burgers web application, which aims to digitize and streamline the operations of a medium-scale burger shop.

1.2 Scope

The web application will handle order processing, store management, bill issuing, and customer management for MOS Burgers.

1.3 Definitions, Acronyms, and Abbreviations

* SRS : Software Requirement Specifications
* UI : User Interface
* UX : User Experience

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**2. Overall Description**

2.1 Product Perspective

The MOS Burgers web application will replace the current manual, paper-based processes for managing transactions and issuing bills.

2.2 Product Functions

* Cashier Management
* Customer Management
* Order Management
* Stock Management
* Report Analyzation

2.3 User Classes and Characteristics

* Shop Cashiers: Will use the system for day-to-day operations
* Shop Owner: Will use the system for management and report viewing

2.4 Operating Environment

* Web-based application accessible via desktop computers, tablets, and smartphones

2.5 Design and Implementation Constraints

● The application must be developed using HTML, CSS, and JavaScript ● The application must be hosted on GitHub Pages

2.6 Assumptions and Dependencies

* Users have basic computer literacy
* Stable internet connection is available at the shop

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**3. Specific Requirements**

3.1 External Interface Requirements 3.1.1 User Interfaces

* Responsive design for various devices
* Visually appealing layout

3.1.2 Hardware Interfaces

* Not applicable (web-based application)

3.1.3 Software Interfaces

* Web browsers (Chrome, Firefox, Safari, Edge)

3.1.4 Communications Interfaces

* HTTP/HTTPS for web communication

3.2 Functional Requirements 3.2.1 Cashier Management

* Ability to process orders
* Authentication and login
* Generating bills
* Process payments
* Update orders

3.2.2 Customer Management

* Add customers during order placement or separately
* Update, delete, and edit customer details
* View orders under each customer name

3.2.3 Order Management

* Select food items by name, code, or category
* Display item details (price, expiration warning, code, discount)
* Show selected items in cart with prices and quantities
* Apply discount to the whole order
* View, edit, delete, and update previous orders
* Generate receipt for completed orders (PDF format)

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3.2.4 Stock Management

* View all food items categorically
* Update and delete food items
* Add new items to the system
* Notify users about expired food items
* Remove expired food items

3.2.5 Report Analyzation

* Generate monthly sales report
* View customers with highest order rates within the month
* Generate annual sales report
* Generate food items count report

3.3 Non-Functional Requirements

* Performance - The webpage must work in a fast manner to reduce the loading time
* Usability - The system should be easy to understand and use without needing much help
* Reliability - The website should work smoothly even when many people use it at the same time
* Security - Customer data should be protected
* Maintainability - Code should be well-organized and documented

**4. System Features**

(Detailed descriptions of each major feature listed in section 3.2)

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**5. Other Nonfunctional Requirements**

5.1 Performance Requirements

* The system should handle 50-60 customers per day efficiently

5.2 Safety Requirements

* Not applicable

5.3 Security Requirements

* Secure storage of customer information

5.4 Software Quality Attributes

* Reliability, maintainability, usability

**6. Other Requirements**

* The system should be developed following best practices in web development
* Regular commits should be made to the GitHub repository during development

This SRS document provides a comprehensive overview of the requirements for the MOS Burgers web application. It can be used as a guide throughout the development process to ensure all specified features and functionalities are implemented correctly.

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