Software Requirement Specification (SRS) for Restaurant Management System

1. Introduction

- Purpose: The purpose of this document is to define the requirements and features of a Restaurant Management System (RMS).
- Scope: The system will be used to manage restaurant operations, including order processing, menu management, and customer information.

2. Functional Requirements

2.1 User Management

Feature 1: User Authentication

- Users (staff members) should be able to log in with unique usernames and passwords.

2.2 Menu Management

Feature 2: Menu Item Management

- Staff can add, edit, and delete menu items.
- Each menu item should have a name, description, price, and category (e.g., appetizer, main course, dessert).

2.3 Order Processing

Feature 3: Place Orders

- Staff can take customer orders, selecting menu items and specifying quantities.

Feature 4: Order Tracking

- Orders should have statuses (e.g., "Pending," "Preparing," "Ready," "Delivered") to track their progress.
- Staff should be able to update the status of an order.

Feature 5: Calculate Total Amount

- The system should automatically calculate the total amount for each order.

2.4 Customer Management

Feature 6: Customer Information

- Staff can enter and update customer information, including name, contact details, and table number (if applicable).

2.5 Reporting

Feature 7: Sales Reports

- Generate daily, weekly, and monthly sales reports.
- Reports should include information such as total revenue, popular menu items, and order trends.

2.6 Reservation Management (Optional)

Feature 8: Table Reservations

- Allow customers to make reservations for specific dates and times.
- Staff can view and manage reservations.

3. Non-Functional Requirements

3.1 Performance

- The system should respond to user interactions within 2 seconds.

3.2 Security

- User data (e.g., passwords) should be securely stored and encrypted.
- Only authorized staff members should have access to sensitive features.

3.3 Usability

- The user interface should be intuitive and easy to navigate.

3.4 Scalability

- The system should be able to handle a maximum of 100 menu items and 50 active orders simultaneously.

3.5 Reliability

- The system should be available 99.9% of the time.

Glossary

  - **RMS**: Restaurant Management System

This SRS outlines the functional and non-functional requirements of the Restaurant Management System, including user management, menu management, order processing, customer management, reporting, and optional reservation management. It also specifies constraints and provides a glossary of terms.