

# SOFTWARE REQUIREMENT SPECIFICATION DOCUMENT FOR RESTAURANT MANAGEMENT SYSTEM

Contributors: Devansh Singh Dev (21BIT0136), Jai Bhalla (21BIT0386), Mridul Jain (21BIT0377), Naman Rath (21BIT0430), Prince Jain (21BIT0348), Sarvesh Ashish (21BIT0724), Shri Abhishek Choudhary (21BIT0410) and Sneha Vejju (21BIT0647)

School: School of Information Technology and Engineering

Subject Code: BITE307P (L27+L28)

Guide: Prof. Vellingiri J.

## **Table of Contents**

1. Introduction			
	1.1	Purpose	
	1.2	Document Conventions	3
	1.3	Intended Audience	3
	1.4	Project Scope	
2.	Ove	erall Description	3
	2.1	Product Perspective	3
	2.2	Product Features	3
	2.3	User Classes and Characteristics	3
	2.4	Operating Environment	
	2.5	Design and Implementation Constraints	4
	2.6	Assumptions and Dependencies	4
<b>3.</b>	Sys	tem Features	5
	3.1	Handle Orders	5
	3.2	Manager Operations	5
4.	Ext	ernal Interface Requirements	5
5.	Oth	er Nonfunctional Requirements	6
	5.1	Performance Requirements	
	5.2	Safety Requirements	
	5.3	Security Requirements	
6.	App	oendix A: Class Diagram	6
7.		oendix B: Use Case Diagram	
8.		pendix C: Order Management Activity Diagram	

#### 1. Introduction

#### 1.1 Purpose

In the fast transition of everything into technology, food businesses too could be computerized for ease of business and decreasing manual labour and costs in the long run.

#### 1.2 Document Conventions

The document follows standard IEEE SRS Template and uses Star UML for UML Diagrams.

#### 1.3 Intended Audience

The SRS is intended for the management team of the restaurant and the development team of the project.

#### 1.4 Project Scope

The project aims to aid the food industry by computerizing the management system.

## 2. Overall Description

## 2.1 Product Perspective

This software works for local shops and general stores where shopkeepers can systematically store the customer's data in the form of receipts.

→ In this way, owners would discontinue the conventional ways of storing data like in the form of local papers, registers, etc.

#### 2.2 Product Features

- → The software can be used to take orders from customers and generate a bill for the same.
- → This can circulate the order from the customer
- → The billing history and statistics such as total sales, previous orders, most popular item, etc. can be viewed.

### 2.3 User Classes and Characteristics

- → Customer: Customer can use the software to view prices, place order and pay bills.
- → Admin: (Requires Password) Admin can view the orders and analyze the business by looking at the sales, most and least popular items, etc.

## 2.4 Operating Environment

- → Windows 7 / 8 / 8.1 / 10 / 11
- → 64-bit operating system.

→ Graphics not required → Python pre-installed

→ Latest text editor – VSCode, PyCharm, Python - IDE

## 2.5 Design and Implementation Constraints

- → The biggest constraint is the short storage of data. This might happen due to less system storage. So, the owners need to make recycle the .txt files, making space for the new data while saving the previous records.

  The system specifications should be as per mentioned above. Any older
- software version won't be compatible with the software.

## 2.6 Assumptions and Dependencies

- → The clients / shop owners using this software should explicitly save the customer's data in the form of .txt files and not assume automatic data storage.
- → Also, the shop owner needs to make sure that only limited data can be stored this way. It means they need to recycle the data after a certain period in order to

make space for the new one.

→ This software runs on Python software which is a pre-requisite installation in the computer.

## 3. System Features

#### 3.1 Handle Orders

#### 3.1.1 Description

The software can take orders, give it to the chef to make the required food item(s), to the waiter to take it from the chef, cross verify and wait the appropriate table.

#### 3.1.2 Response Sequences

- 1. Get order from customer
- 2. Pass the order to the chef
- 3. Pass the order to the waiter
- 4. Store the order in database

## 3.2 Manager Operations

#### 3.1.1 Description

The manager can control everything that is available in the restaurant, food, employees, etc. and can also analyze the business.

#### 3.1.2 Stimulus

- Add/Delete Food/Employees
- Register Feedback
- View total sales, most sold item, most profitable item, etc.

## 4. External Interface Requirements

The software requires interconnected computer devices to run efficiently.

## 5. Other Nonfunctional Requirements

## **5.1 Performance Requirements**

Ideally the software should run efficiently on devices with Windows 7 and above with 64-bit Operating System and Minimum 4 GB RAM.

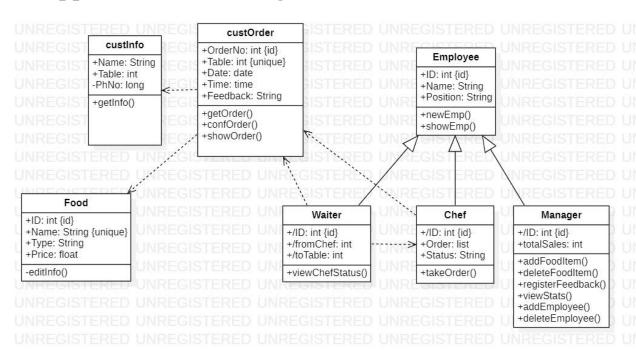
### **5.2 Safety Requirements**

The safety of the database is crucial as it may contain vital information about the customers.

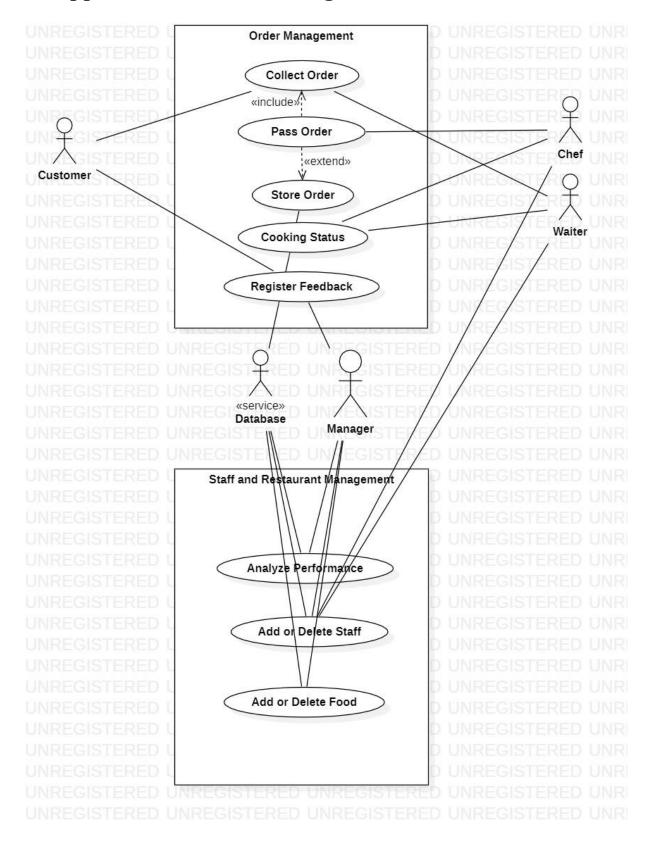
### **5.3 Security Requirements**

The database and manager functionalities must be password protected.

## 6. Appendix A: Class Diagram



## 7. Appendix B: Use Case Diagram



## 8. Appendix C: Order Management Activity Diagram

