SOFTWARE REQUIREMENTS SPECIFICATION
For
Cyber Restaurant

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1. INTRODUCTION

1.1:PURPOSE

Cyber Restaurant is a windows application that aims to digitalize the process of various restaurant management operations including ordering and inventory management and POS(Point of Sale).
This document aims to capture the system requirement and features particularly related to ordering and inventory management to be implemented in Cyber Restaurant.

1.2: INTENDED AUDIENCE AND READING SUGGESTIONS

The purpose of this document is to give a detailed description of the requirements for the “Cyber Restaurant” software. It will illustrate the purpose, scope and complete description for the development of system. It will also explain external interface requirements and system requirements as well as non-functional requirements. This document is primarily intended to be proposed to a customer for its approval and also for further processing such as additions to be developed in later releases.

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1. SYSTEM REQUIREMENT

1.1 PLACE ORDER

DESCRIPTION: The System will give customer the ability to place their order using our product. It will display a list of available dishes in the menu. Customer will be able to select multiple dishes and their quantity for a particular order.

1.1.1 FUNCTIONAL REQUIREMENT

REQ1-CUSTOMER :

INPUT: The customer will input his/her name, contact number and respective table no.

OUTPUT: It will open the new window order now.

REQ2- GET STARTED:

INPUT: On clicking, the respective region and types.

OUTPUT: The system will show a list a cards(UI elements) of dishes. Each card will have a name of the dish. Below the dish it shows the price in rs. per serving.

REQ3:GET:

INPUT: On tapping any of the displayed dish

OUTPUT: It will result in a pop-up for quantity.

REQ4-DONE:

INPUT: On Clicking Done button

OUTPUT: A pop-up will display stating whether you want to proceed or not.

REQ5-STATUS:

INPUT: On Clicking status button

OUTPUT: It will display the ordered dishes with respect to preparing and prepared status.

REQ5-BILL:

INPUT: On Clicking status button

OUTPUT: After completing the order, system will generate the bill.

2. CHEF ORDER QUEUE

DESCRIPTION:Whenever a new order is placed by the customer,dishes in the orders will be glanced once by the head chef and will proceed for the preparation.The head Chef is responsible for the completion of the order.

2.1 FUNCTIONAL REQUIREMENTS:

REQ1:REFRESH

INPUT:The chef will check the order queue list.

OUTPUT:It send the pending order for the processing.

REQ2:PREPARED:

INPUT:ON clicking the button.

OUTPUT:After processing of the order,message will be send to the customer.

3. MANAGER WINDOW

DESCRIPTION: This window will enable the manager to keep a look on the customer log, allocated and vacant tables and current order under processing.

3.1:FUNCTIONAL REQUIREMENTS

REQ-1: CUSTOMER LOG:
INPUT:On clicking the button
OUTOUT:It will show the list of customers details.

REQ-2: CURRENT ORDERS:
INPUT:On clicking the button
OUTPUT:It will show the list of tables acquired and their respective dishes that they ordered.

REQ-3:VACANT TABLES:
INPUT:On clicking the button.
OUTPUT:It will show the table numbers that have not been allocated or is vacant.

REQ-4:TOTAL BILL:
INPUT:On clicking the button.
OUTPUT:It will show the list of all token numbers and their respective bill.

NONFUNCTIONAL REQUIREMENTS

PERFORMANCE REQUIREMENTS

The system must be interactive, and the delays involved must be less. So, in every action-response of the system, there are no immediate delays. In case of scrolling through the menu there should be a delay of no more than 2 second before the next page of menu items is displayed otherwise our people' s dining experience is affected. The order should be placed in pending orders and be visible to the head chef/chefs in less than 1 second to start the preparation.

Cancel Order/ updates must be made with little delay to avoid delivery delay. Also, when connecting to the Firebase server the delay to make a successful connection should be less for effective real time communication.

5.2:SAFETY REQUIREMENTS

The software is completely environmentally friendly and does not cause any safety violations. The menu will have a flexible font that can be zoomed so as to not over constrain the eyes.

5.4 SOFTWARE QUALITY ATTRIBUTES

5.4.1 ADAPTABILITY:

There can be a change in the menu and information stored in the database about employees and inventory.

5.4.2 AVAILABILITY:

The system is up and running for most of the time and server is not down for more than a few minutes to avoid inconvenience of the customers.

5.4.3 CORRECTNESS:

The bill generated by the application must be accurate and the orders placed should exactly be the same which the user has selected.

5.4.4 FLEXIBILITY:

If need arises in the future, software can be modified to change the requirements.

5.4.5 INTEROPERABILITY:

The data is transferred from the customer' s end to the kitchen and then head chef assigns orders to each chef. This way data is transferred from one part of the system to another.

5.4.6 MAINTAINABILITY:

Software can be easily repaired if a fault occurs.

5.4.7 PORTABILITY:

Software can be easily installed on devices and would run smoothly according to the requirement.

5.4.8 RELIABILITY:

No matter how many orders are placed, system must give the correct results.

5.4.9 REUSABILITY:

Current version can be used in the future versions with more functionality added.

5.4.10 ROBUSTNESS:

Software must have checks to ensure that the items that are not available in the menu cannot be selected and the emails, phone numbers added are all valid.

5.4.11 TESTABILITY:

All the requirements are fulfilled, response time is low, and all functions are working perfectly.

5.4.12 USABILITY:

Interface of the software must be easy to use. It would not be complex since managers, chefs have a view, so interface should be simple.

CONSTRAINTS

1. Windows 7 or Above.
2. Linux
3. Mac
4. Configuration

a) 1 GB RAM or more (55 MB needed for app execution)
b) 2.4GHz Processor or more.
c) 60 MB secondary storage required for app.
d) Stable internet connection.
e) Minimum Screen Resolution:640x360