***Problem statement:-***

The food business in restaurants is being carried out in the same fashion for so many decades. In the restaurants, when the customers visit, they will read the large menu cards which just has the name of the item and price. They have to decide in moments time and place the order just to wait in the queue for getting the ordered items on their table. Sometimes, the waiting time is so huge that the customers will actually lose interest in the item. Moreover, some customers will be in their office or busy to come physically to the restaurant and eat.

To ease the process of ordering the items, giving a description of each item and getting the item on the table the online food ordering system is designed. Some of the common problems are listed below.

The general problems faced while ordering food physically in a restaurant are listed below.

1. Viewing the complete description of the menu item before ordering.
2. Placing the order standing in a queue.
3. Waiting for the customer’s turn to get the food.

These hurdles will be avoided by placing the order online

**Restaurant Management**

**System**

**Final version**

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**Course**: **software engineering**

**Section**: 01

**Date**: 16-03-2020

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* 1. ***Documentation Purpose***

This document presents a detailed explanation of the objectives, features, user interface and application of Restaurant Management System in real life. It will also describe how the system will perform and under which it must operate. In this document it will be also shown user interface. Both the stakeholders and the developers of the system can benefit from this document.

***1.2 Product Scope***

This system will help to manage and run the restaurant business systematically. In this management system, we will provide an app that can be used by the customers to order food. Customers can also give feedback through this app. So that owner of the restaurant can evaluate the whole system. This will ultimately lead better kitchen place to serve food faster. Customers can also make payment through debit or credit cards using POS which will be integrated with the management software.

***1.3 Definations,Acronms and abbreviation***

We will also use bold letter to emphasis main topics and for all the major functions of the system. Underline will represent hyperlink. Italic will represent acronyms and useful notes. We will use some acronyms through this document. Abbreviations and definition of some useful terms we will use are given below :

|  |  |
| --- | --- |
| **Term** | Definations |
| System Admin | System admin is a person who is responsible for managing the whole system and who has full access to the system. |
| User | A person who is using or operating the system but with a limited privilege. |
| Database | Collection of all the information monitored by this system. |
| Software Requirements Specification (SRS) | A document that completely describes all of the functions of a proposed system and the constraints under which it must operate. For example, this document. |
| Stakeholder | Any person who is involved in the development process of the software. |
| Point of Sale (POS) | A point of sale system is either a stand-alone machine or a network of input and output devices used by restaurant employees to accomplish their daily activities including food and beverage orders, transmission of tasks to the kitchen and other remote areas, guest-check settlement, credit card transaction processing, and charge posting folios. |
|  |  |

***1.4 Intended Audience and Document Overview***

This document is intended for different types of readers such as restaurant owner, system designer, system developer and tester. By reading this document a reader can learn about what the project is implemented for and how it will present it’s basic ideas. This document has a sequential overview of the whole project so if a reader reads the document from top to bottom, he will get a clear idea about the project.

***1.5 references***

[www.google.com](http://www.google.com) -the world's information.

[www.wikipedia.com](http://www.wikipedia.com) -free online encyclopedia.

[www.cnet.com](http://www.cnet.com) -technology portal.

[www.slideshare.ne](http://www.slideshare.ne) t-the world's largest professional content sharing community.

***2.1 product prespective***

The Restaurant Management System helps the restaurant manager to manage the restaurant more effectively and efficiently by computerizing meal ordering, billing and inventory control.

The system processes transaction and stores the resulting data. Reports will be generated from these data which help the manager to make appropriate business decisions for the restaurant. For example, knowing the number of customers for a particular time interval, the manager can decide whether more waiters and chefs are required. Moreover, easily calculate daily expenditure and profit.

***2.2 product functionality***

Following functions that done by this project are:-

* Food order via website
* Take order
* Serve food
* Payment
* Available goods
* Required goods
* Customer information
* Customer reviews

***2.3 user and chracterstics***

The Restaurant Management System has five active actors and one cooperating system. **The customer** can access the system through wifi connection and order food. **The Chef** can see the order and after preparing the food he will tell the system that the food is ready. **The waite**r can get the confirmation of food from the chef through the system and deliver it to the right table. **The cashier** can access the system and receive the payment from customers. **The Admin** can edit the price, count total earning and expenditure.

***2.4 constraints***

Operating System : Minimum Windows XP or Windows VISTA. Better environment Windows 7, 8, 8.1, 10. Work efficiently in windows 10.

Language : html, css, javascript.

(We will provide the android app to place order with the system.) Whole system should be covered by WiFi connection. And a display for Chef in kitchen.

***2.5 Assumptions and Dependencies***

If this system have IOS and Windows app then customers who use such kind of smartphone (windows and ios) will be more benefited. If there are more Tablets for each tables the whole system performance will be better. User mast need wi-fi to use this website .

***3.1 External Interface Requirements***

There are many types of interfaces as such supported by this software system namely; User Interface, Software Interface and Hardware Interface communication interface.

**The user interface** will be implemented using any android smartphone app browser. **The hardware interface** shall be logical address of the system in IPv6 format. **The system interface**-The system shall communicate with the Configurator to identify all the available components to configure the product and content manager to get the product specifications. **The communication interface**- Communication function required the Internet protocol version 6 and it will follow HTTPS. It will use FTP for whole system with local server. And email communication to device to device of the system.

***3.2 Functional Requirements***

**3.2.1 Food Order Via website**

Customer can order food with the website but it needs specific wifi connection.

**3.2.2 Take Order**

The chef will take the order and if it is available to make then he will confirm the order and start to prepare food.

**3.2.3 Serve Food**

When the food is ready to be served then the chef will alert the waiter. After serving the food the waiter will insure the order as served.

**3.2.4 Payment**

The cashier will receive the payment if the customer is a member he or she will get discount.

**3.2.5 Available Good**

The Chef will add what goods are available and the admin can see that data.

**3.2.6 Required Goods**

The chef will add what goods are required.

**3.2.7 Customer Information**

The customer will be get registered and be the member of special customer.

**3.2.8 Customer Review**

Customer can give overall review about the food and services.

***3.3 Performance Requirements***

* The product will be based on local server.
* The product will take initial load time.
* The performance will depend upon hardware components.
* Payment system will be fully secure through POS system.
* Different database for employee

***3.4 constraints***

The CMMS should be written in an object –oriented language with strong GUI links and asimple ,accessible network API. The primary candidate tool for website is HTML,CSS and javascript. The system must provide a capacity for parallel operation and system design should not introduce scalability issues with regard to the number of surface computers, tablets or displays connected at any one time. The end system must should also allow for recovery,without data loss,from individual device failure.

***3.3 Behaviour Requirements***

Create use case view. The use cases for each of the actors are described in this section.

* Customer use case- Order Food
* Chef use case- Prepared Food
* Waiter use case- Serve Food
* Cashier use case- Payment
* Admin use case- maintain system

***4.1 Safety and Security Requirements***

* The whole system is secured. Only Admin can access all the data.
* User can only saw abstract view of system.
* This system will use secured POS system.

***4.2*** ***Schedule and Budgets***

This system is working whole day until there is server problem. To make this setup some amount of money needed for giving salary to chef, waiter, the person who maintain the database and all other records.

***4.3 Database***

By the help of MYSQL all the date is maintained. All the records about no. of deliveries at a time, free tables, booked tables, payment received etc.