

FOOD COURT MANAGEMNET SYSTEM REQUIREMENT ANALYSIS

A thesis submitted in partial fulfilment of the requirement for the lab of
ADVANCED SOFTWARE ENGINEERING



**DEPARTMENT OF COMPUTER SCIENCE
UNIVERSITY OF KARACHI**

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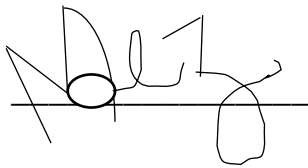
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A handwritten signature in black ink, featuring a stylized 'N' and 'K' followed by a horizontal line and a large loop.

Submitted to

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FOOD COURT MANAGEMENT SYSTEM

1. Introduction

1.1 Purpose Of Document

This SRS is for (food court management system). This document presents a detailed and enriched explanation of the objective , 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 operates .The document conclude both the functional and non-functional requirements. This document provides following

- A description of the environment in which the application is expected to operate.
- A definition of the application's capabilities.
- A specification of the application's functional and nonfunctional requirements.

1.2 Readers of SRS

The types of srs readers are as follows

- Stake holders
- Designers
- Testers
- Client

1.3 Product Scope

This system will help to manage the restaurant system systematically.it is a mobile based application which will allow the user to

- The customer can use the app to order food

- Customers can also make payment via POS
- Customers can also see the calorie chart along with the food to be aware of their caloric intake

This app will provide following benefits to the owner

- Due to the app all the system is online ultimately less hire of waiters
- All the information about expenses and profit is saved in the system
- Admin/owner is aware of all the important stuff .

1.4 Overview Of The Document

The rest of the SRS examines the specifications of the Food Court Management System in detail. Section 2 of the SRS presents the general factors that affect the FMS and its requirements, such as user characteristics and general constraints. Section 3 outlines the detailed, specific functional requirement, non-functional requirement and other related requirements.

2. Methodology And Technique

This phase of the document contains all the details about methodology and the techniques used in the document.

2.1 Methodology

The methodology used in the preparation of the document is **JAD(Joint Application Development)**

2.2 Techniques

The technique used in preparing the system is the most common, widely used and popular which is **waterfall**.

2.3 Resources and Tecnology

The tools and resources used in the development of the system,

- Visual studio 2103 as IDE

Front end tecnology

The interface is completely GUI based. The front end of the system would be a mobile application. the system is developed on language called **C#**.

Back end tecnology

For the back end we have use **MYSQL** database for storing and retrieval of data.

2.4 Evaluation Method And Testing

The evaluation and testin methods are described below.

- Unit testing
- System testing
- Integeration testing
- Security testing
- Acceptance testing

3. General Description

Food court management system will help the owner of the restaurant to manage it more effectively and efficiently by

- Computerizing meal ordering
- Billing and Inventory control

The system process transaction and stores resulting data reports will be generated from these data to guide the owner to make appropriate decisions for the business. The whole management system is designed for the general COMPUTERIZED DIGITAL RESTAURANT.

3.1 Functionality (Functional Requirements)

- Food order via app
- Take order
- Serve food
- Payments
- Available goods
- Required goods
- Customer information
- Customers review

3.2 User and Characteristics

There are five basic actors and 1 co-operating system.

- Customer/Client (order food)
- Chef (cook food and tell the system)
- Waiter (deliver it to the right table)
- Cashier (collect the amount)
- Admin (edit price, total earning and expenditures)

4. Environment Of The System

The environment of the system contains operating system and language used for developing the application.

4.1 Operating System

Minimum windows Vista ,Xp for better environment use 7 , 8,8.1, 10

4.2 Language

C#

5. General Constraints And Dependencies

The general constraints ,assumption,dependencies of the system are as follows.

5.1 Design And Implementation Constraints

There are some constraints which cost more than the system if these constraints can overcome the system perform the best.

- IOS app and WINDOWS app
- Information flow or data flow can be more effective
- Faster server system such as LINUX

5.2 Assumptions And Dependencies

- If the system have run on windows and ios then more customers can be benefitted
- If there are some more tablet so every one can be benefitted
- For more security CCTV cameras can be used

6. Requirements (Non-Functional)

The non fuctional requirements include performance,behaivoral,security and licensing rrequirements

6.1 Performance Requirements

The performance requirements of the system are as follow

- The product will be based on the local server
- The product will take initial load time
- The performance will depend upon hardware components

- Payment system is faster and secure through POS
- Different database for employees.

6.2 Safety And Security Requirements

The safety and security requirements are as follows

- The source code developed for the system shall be maintained in configuration tool.
- The whole system is secured and only admin can access the data
- The system will use HTTP.
- The system will use secure POS.

6.3 Others

The other requirements are

- Licensing
- Legal copyright, other notices
- Applicable standards

7. Complete Tools Details

This section of the document gives the complete details about the different types of tools for eg. Analysis tools, documentation tools, design tools, database management tools.

7.1 Analysis Tools

There are various analysis tools trending in market like.

- Structured diagrams
- Flow diagrams
- Case tools

The tool we used in our project for analysis are

- Use-case diagram
- Visual paradigm

7.2 Project Management Tools

There are various project management tools used in the market like.

- Ms project
- Gant chart

- Pert chart
- Logic network

The tools we used in our project is

- Pert chart
- Ms project

7.3 **Design Tools**

The design tools that are trending in market are.

- Ms Visio
- Visual Paradigm

The tools we have used in project is

- Visual paradigm

7.4 **DataBase Management Tools**

The database Management tools that are widely used in market are.

- Oracle database
- Firebse
- Mysql
- Ms access
- Ms excel

The tool that we have used in our project is

- Ms access

7.5 **Documentation Tools**

The documentation tools that are widely used and the most popular are .

- Ms word
- Google docs
- Notepad

The tool that we have done the documentation of our peoject is

- Ms word

8. Related Work

TossDown

Toss down is the brilliant food guide app if one wants to go out and eat. it is an option to find different types of menus in one place. the site also features special tips, reviews and pictures shared by the customers.

SuperMeal

Super meal is the portal for ordering online food. it has all the regular features like menus, reviews etc.

EatOye!

It is a recent startup that got acquired by Rocket Internet a few months ago. this special app also helps you to find out the nearby restaurants.

Olaround

It is an app that rewards combine check-ins with reward points. This smartphone loyalty app lets you find the restaurant and avail discounts and deals.

9. Results And Conclusion

We personally think that with the advancement in the technology people tend to get more and more comfort and ease in their lives and when it comes to the food people are conscious about the service as well as quality

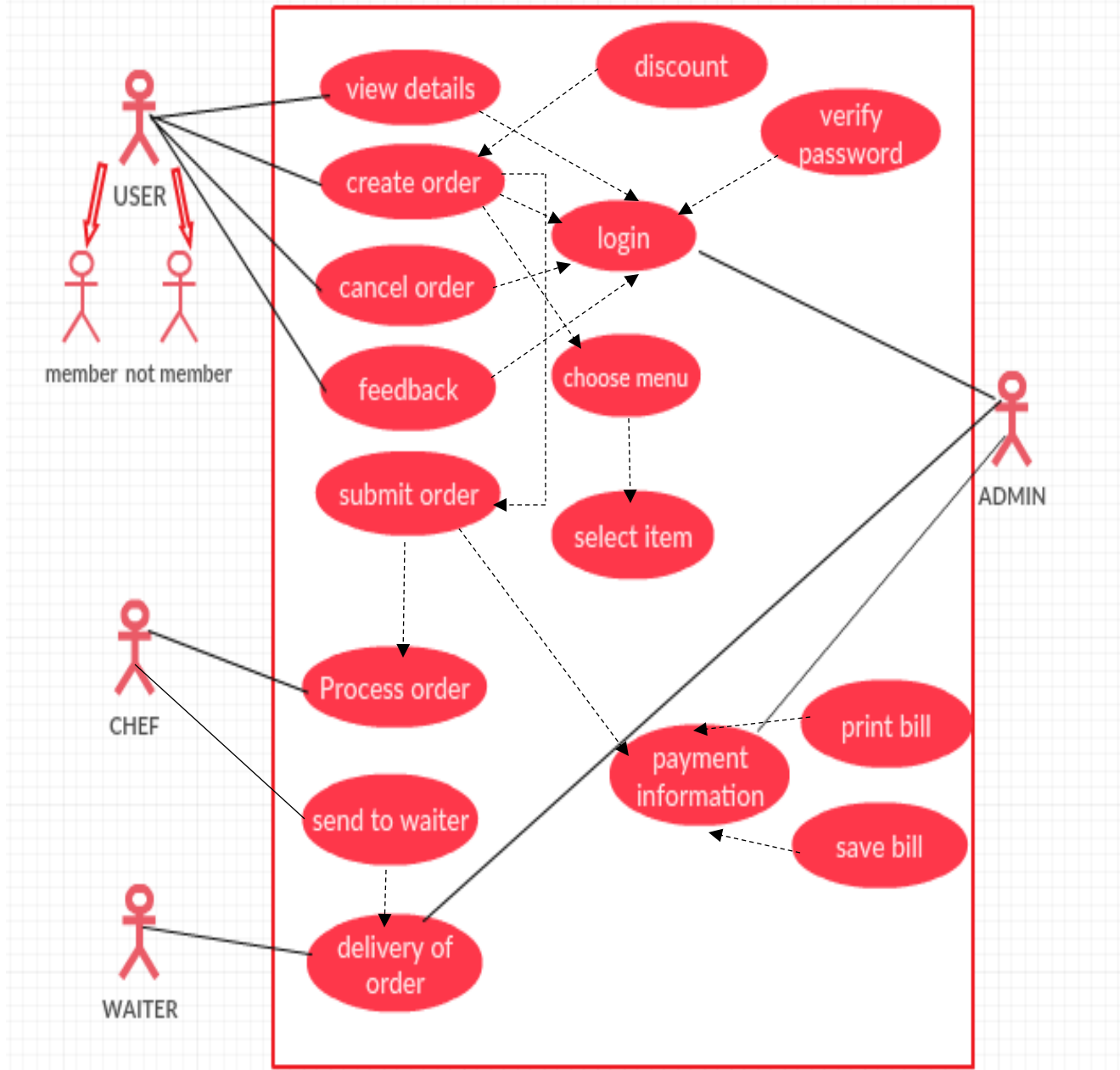
This app lets the customer to search the food, order the food and get the food in the quickest way possible .

This app also let the customer to run the business successfully. we strongly believe that this app will facilitate both the customer and the owner in the best way possible

10. References , Books, relevant links

- www.slideshare.com
- www.wikipedia.com
- www.youtube.com
- www.quora.com
- Visual c# how to program
- Learn about restaurant management system

FOOD COURT USE CASE



SEQUENCE DIAGRAM:

