Software Requirements Specification

for

Food Delivery Application

Version 1.0 approved

Prepared by Harsh Rawat (210001023)

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Revision History

Name	Date	Reason For Changes	Version
Food delivery Application	15/03/23	-	1.0

1.PREFACE

Food delivery application is an application which will help customers to get their ordered food at their doorstep. It will save time involved in waiting at restaurant and efforts involved in going to restaurants. This application improves efficiency of restaurants.

This application allows the users to scroll through the menu of restaurants, select their desired food item and make the payment online or pay-on-deliver. Thus , this application make the entire process smooth and fast.

Existing system

In the existing system, to give any orders, the customer has to go to a restaurant, know about the food Items then order and pay. In this method, time and manual work is required. Also, maintaining critical information in the files and manuals is a tedious risky process.

Proposed system

This online application enables the users to register online, select the food items from the menu card and order food online. The results after ordering the food will directly reach the restaurant from whom you want to order. In this way, work of the waiter is nullified. A benefit of this application is also that if there is a rush in the restaurant and the waiter is unavailable then users can directly order the food to the chef using this application. This application also greatly lightens the load on the restaurant's end, as the entire process of taking orders is automated. Once an order is placed on the webpage, it is entered into the database and then retrieved, in pretty much real-time, by a desktop application on the restaurant's end.

2. Introduction

Due to tedious manual work and time consumed in the existing system in IIT Indore , there is dire need for an application in our campus which helps the student, faculty and everyone else residing on the campus order food from their doorsteps. Thus, This food delivery application is made to make the process of food delivery smooth and easier for everyone.

The purpose of this document is to mention the requirements specification of "Food Delivery Application". This document includes the specifications and features of the software in detail. It helps understand the target audience and user classes accordingly and functional and non-functional requirements.

To use our food delivery application, first users will have to register. Then, they will scroll through the menu of their desired restaurant. Now, they will select their desired food item and place order. After this, They will choose between options of paying online or pay-on delivery and pay accordingly.

3. System Model

The structure of the system can be divided into three main logical components. The first component must provide some form of menu management, allowing the restaurant to control what can be ordered by customers. The second component is the web ordering system and provides the functionality for customers to place their order and supply all necessary details. The third and final logical component is the order retrieval system. Used by the restaurant to keep track of all orders which have been placed, this component takes care of retrieving and displaying order information, as well as updating orders which have already been processed.
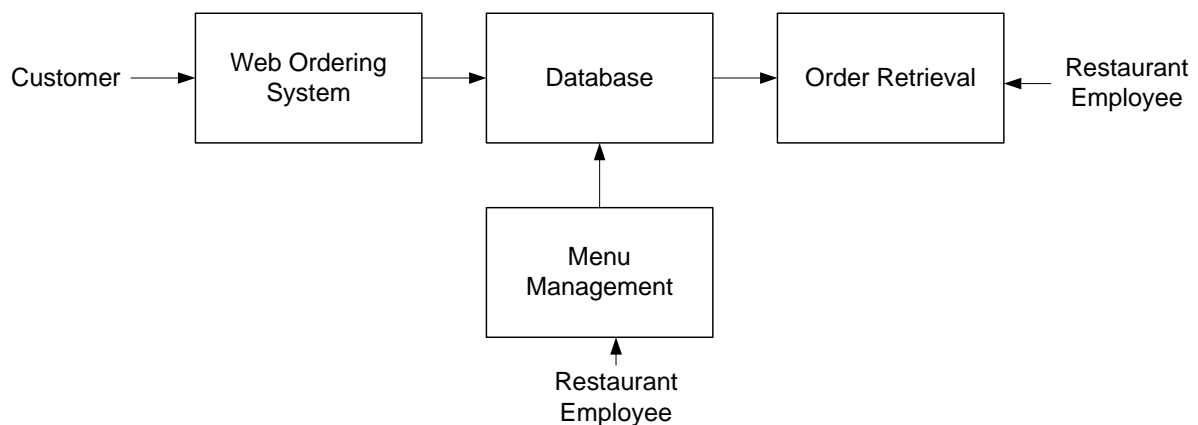

FIG-3.1

4. System Evolution

As mentioned in the system model, at the heart of the entire ordering system is the database. In fact, the system could be completely operational using nothing but the database On the other hand, it is very probable that the other components will continue to evolve with time.

I am also certain that if this system goes into actual use, many requests will arise for additional features which I had not previously considered, but would be useful to have. For this reason, I feel as though the application can be constantly evolving, which I consider a very good thing.

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5. Functional Requirements

As can be seen in the system model diagrammed above, each of the three system components plays an essential role in the smooth management of the food delivery application.

The Web Ordering System

Users of the web ordering system, namely restaurant customers, must be provided the following functionality:

- Create an account.

- Manage their account.

- Log in to the system.

- Navigate the restaurant's menu.

- Select an item from the menu.

- Add an item to their current order.

- Review their current order.

- Remove an item/remove all items from their current order.

- Provide delivery and payment details.

- Place an order.

- Receive confirmation in the form of an order number.

As the goal of the system is to make the process of placing an order as simple as possible for the customer, the functionality provided through the web ordering system is restricted to that which most pertinent to accomplish the desired task. All of the functions outlined above, with the exceptions of account creation and management, will be used every time a customer places an order. By not including extraneous functions, I am moving towards my goal of simplifying the ordering process.

Menu Management System

The menu management system will be available only to restaurant employees and will, as the name suggests, allow them to manage the menu that is displayed to users of the web ordering system. The functions afforded by the menu management system provide user with the ability to, using a graphical interface:

- Add a new/update/delete vendor to/from the menu.

- Add a new/update/delete food category to/from the menu.

- Add a new/update/delete food item to/from the menu.

- Add a new/update/delete option for a given food item.

- Update price for a given food item.

- Update additional information (description, photo, etc.) for a given food item.

It is anticipated that the functionality provided by this component will be one of the first things noted by the restaurant user, as they will have to go through it to configure their menu, etc. before beginning to actually take orders. Once everything is initially configured, however, this component will likely be the least used, as menu updates generally do not occur with great frequency.

Order Retrieval System

Of the three components, the order retrieval system is functionally the simplest. Like the menu management system, it is designed to be used only by restaurant employees, and provides the following functions:

- Retrieve new orders from the database.

- Display the orders in an easily readable, graphical way.

6. Non Functional Requirements

The non functional requirements of the application are

1.Security: The system should prevent unauthorised access or misuse of sensitive information, such as consumer payment and personal information. This could include regulations for the use of encryption, secure servers, and other data integrity safeguards. 2.Scalability: It refers to the system's ability to accommodate increases in the number of users or orders without deteriorating performance. This could include the capacity to add more servers or other hardware as needed to accommodate rising demand.

3.Reliability: The system should be available and working when required, with as little downtime as possible. This could include requirements for the system's ability to handle failures or unforeseen events, as well as the utilisation of backup systems and processes to assure service continuity.

4.Maintainability: With a clear and well-documented codebase and a solid testing and deployment procedure, the system should be simple to upgrade and maintain over time. This could include requirements for using version control, automated testing, and other tools and processes to keep the system reliable and up to date.

5.Usability: The system should be simple to use for both customers and restaurant employees, with a clear and intuitive interface and simple navigation. This could include criteria for the system's layout and design, the use of clear and simple language, and the provision of assistance and support.

6. Performance: The system should be able to process a high volume of orders efficiently. This could include system speed, the number of orders it can process at once, and the ability to handle peak periods of activity.