

Software Requirements Specification

&

High Level Design Document

For

Nexwave Food Ordering Site

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1. Introduction
   1. Document Purpose

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

* 1. Product Scope

This system will help to manage and run the online food ordering business systematically. In this ordering website, we will provide an interface that can be used by the customers to select and order food online. Customers can see the price and quantity available for each item and then choose the required items.

* 1. Intended Audience and Document Overview

This document is intended for different types of readers such as the students who made the project and the Professor to whom the project is submitted to. By reading this document a reader can learn about what the project is implemented for and how it will present its 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. Definitions, Acronyms and Abbreviations

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 | Definition |
| System Admin | System Admin is a person who is responsible for managing the whole system and who has full access to the system |
| 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 |
| Field | A cell within a form |
| Software Requirements Specifications (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 |

* 1. References

1. Google.com
2. Github
3. W3Schools.com

2. Overall Description

2.1. Product Perspective

The food ordering app helps the customer or the user to order different types of food or different delicacies more effectively as everything is computerized from meal ordering to billing and check out. The app stores the selected food items and processes the transaction to be made with respect to the food we ordered. Reports will be generated on the type of food which is ordered and the quantity as well. For example, a limited amount of certain dish is present and the app will decrease from the total quantity if the user decides to order that particular dish. Total amount is calculated at the end.

The whole app is designed for a general Restaurant so basically any other restaurant can use take up the software for them while making the necessary changes to it.

2.2. Product Functionality

All the functions are performed in the following order:

• Login or Register

• Make a choice whether veg or non-veg

• Select the dish

• Select the quantity of the dish

• Bill is generated

• Make payment at checkout

2.3. Users and Characteristics

‘The Food ordering site has three active actors and one cooperating system. The customer can access the site make an account and order the desired food. The chef can provide with the information telling the admin the quantity and the availability of a dish and can prepare the food, when he gets the order through the site. The admin can edit the prices and the quantity of a particular dish and keep track of the bills.

2.4. Operating Environment

Operating System: Minimum Windows 7.Better environment Windows 8, 8.1, 10.

Language: Java

Any computer or mobile phone, which has access to the internet, can access the site. It’s preferred to be connected to a Wi-Fi or have a fast internet connection so as to make a hassle free order and transaction.

2.5. Design and Implementation Constraints

There are some constraints which makes the site less effective and less efficient and should be avoided or overcome to provide the best performance. The following can be implemented to avoid constraints-

1. Faster server system

2. Different languages for different cities (if implemented there)

3. Information flow or data flow can be controlled and be made more effective.

4. IOS App, Android App and Windows App should be made to make it more efficient.

2.6. Assumptions and Dependencies

If the site is implemented on Android, IOS or Windows app then it’ll become easier for the customer to just use smartphones (or Tabs) to make orders. It’ll be faster and more secure and the performance of the app will be faster than the site and more efficient.

3. Specific Requirements

3.1. External Interface Requirements

There are many types of interfaces as such supported by this software system mainly: User Interface, Software Interface and Hardware Interface.

3.1.1. User Interfaces

The user interface will be implemented using any browser. This interface shall be user friendly so that every kind of customer can place the food order easily.

3.1.2. Hardware Interfaces

For the development phase it exists on the local host of tomcat server.

3.2. Functional Requirements

3.2.1. Food Order via the Website

Customers can order food through the website but it needs an internet connection.

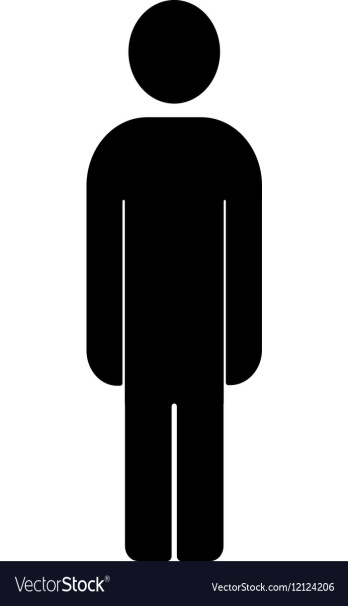
3.2.2. Process the Order

The admin will receive and process the order and make it available to be delivered and display the bill.

3.2.3. Customer Information

The customer will be registered and the information stored on the database for future use.

4. Use Case Diagram



5. Activity Diagram

Display Final Bill

Submit Order

Display Order

Select Quantity

Select Dish

Submit

Submit

Create Password

Create Username

Enter Username

Enter Password

Register

Login

Login / Register

6. Tools Used

1. Tomcat compiles JSP pages into servlets to be displayed through Apache.

2. Apache – An open source web server that will display requested pages.

3. The project has a relational database backend that is SQL based. The actual software used is SQL Plus.

4. Eclipse IDE for Java, HTML, JSP, CSS and Bootstrap Programming.

7. Conclusions

Java has significant advantages not only as a commercial language but also as a teaching language. In this project we used Java and HTML to help create the website along with the help from various websites.