ONLINE FOOD ORDER MANAGEMENT FOR BLU EMBERS

Software Requirements Specification(SRS)

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1. Introduction

1.1 Purpose

Online Order Management provide service facility to restaurant and the customer. This service is to provide food ordering using an online platform . The main objective is to provide ordering by online to the customer in order to save the customer's time .

1.2 Document Conventions

OOMB - Online Order Management for Blu Embers

SRS – Software Requirements Specification

DBMS- Database Management System

IEEE 802.11 Wireless Local Area Network Standard

1.3 Intended Audience and Reading Suggestions

The primary audience of this SRS document will be the Blu embers management team employed to implement the Online Order Management System. The secondary document audience comprises the stakeholders of the project, that is, all students, all faculty and everyone who is residing in the university. To this audience group, this SRS should convey and confirm the required functionality and represent a contractual agreement between the involved parties.

1.4 Product Scope

In today's formal dining environments, some form of physical static menu is used to convey to customers the available food and beverage options. Because these menus are generally paper-based, they limit the amount of textual real estate available and the ability of a restaurant owner to update them. The general scope of the Online Order Management includes the related concepts. It refers to the electronic replacement of paper-based menus, so as to save the customer’s time by just placing the order through online.

1.5 References

IEEE Recommended Practice for Software Requirements Specifications, IEEE standards 830.

2. Overall Description

2.1 Product Perspective

The customized web application described in this SRS is the website for Online Order Management for Blu Embers. The system integrates various hardware and software components and further interfaces with external systems.

2.2 Product Functions

Online Order Management for Blu Embers with an existing food ordering system and payment system in order to easily handle customer ordering and billing. The payment should be operable such that it can return information to the OOMB system so as to whether the ordering and payment was successful or failed.

2.3 User Classes and Characteristics

There are two separate user interfaces used by Online Order Management for Blu Embers, each related to an interfaced physical hardware device. These two interfaces are admin interface and the customer interface.

2.4 Operating Environment

The Surface Computer UI is the interface used by the restaurant customers. This interface uses the surface computer paradigm. Users interact with the system by dragging 'objects' around on the flat screen touch sensitive display.

The Tablet UI is designed to run on a small, wireless-enabled touch screen tablet PC, to be used by admins to accommodate customer needs.

The Display UI provides the restaurant staff with simple functionality related to the ordered items.

2.5 Design and Implementation Constraints

The primary candidate tool chains are php (front end) , MYSQL(backend), APACHE and an application server for hosting PHP website that is XAMPP.The system must provide a capacity for parallel operation and system design should not introduce scalability issues with regard to the number of computers or displays connected at a time.

User Documentation

The end users of the Online Order Management fall into two primary categories, partially skilled and highly skilled.

2.6 Assumptions and Dependencies

The SRS assumes that the functionality of the system depends on the good internet connection of the user, so as to utilize the application effectively. It is

further assumed that the tablet PCs of Sufficient processing capability and battery life will be utilized.

3. External Interface Requirements

3.1 User Interfaces

The user interface will be implemented using any android app browser. This interface will be user friendly. So that every kind of customer can place the food order easily. This interface uses the surface computer paradigm – users interact with the system by dragging ‘objects’ around on the flat screen touch – sensitive display.

3.2 Hardware Interfaces

These devices are the surface computers, the wireless tablets and all the touch displays. All three devices must be physically robust as well as resistant. The devices must also have good design aesthetics, as it will be in direct contact with the customers.

Software Interfaces

The Online Order Management for Blu Embers (OOMB) will interface with a Database Management System (DBMS) that stores the necessary information for the OOMB to operate. The DBMS must be able to provide, on request and with low latency, data concerning the restaurant’s menu, and available requirements.

3.3 Communications Interfaces

The Online Order Management for Blu Embers (OOMB) will interface with a Local Area Network (LAN) to maintain communication with all its devices. It should use a reliable-type IP protocol such as TCP/IP for maximum compatibility and stability. All devices it will interface should contain standard Ethernet compatible, software accessible LAN cards to maintain communication between the server and the surface computers, tablets, displays and the external payment system.

4. System Features

Functional requirements are listed, according to the relationship to the overall system, customers and admin.

Customer

A customer shall be able to engage their menu by tapping the activated surface computer.
A customer shall be able to add an item to a pending order by dragging the item from the engaged menu onto the order.
A customer shall be able to remove an item from a pending order by dragging the item off the order.
When in billing mode, a surface computer shall display a representation of a bankcard payment for each customer.

Admin

Admin will be checking the status of the order. That is whether the order is delivered in time or not.

5. Other Nonfunctional Requirements

5.1 Performance Requirements

The server shall be capable of supporting arbitrary number of surface computers, tablets and displays. And also, the server must be able to support arbitrary number of active customer payments, ensuring that no payments and no orders are lost under any circumstances.

5.2 Safety Requirements

The system shall be capable of restoring itself to its previous state in the event of failure i.e. system crash or power loss.
The system shall offer users with a highly advanced and very secure login algorithms and permit the access only to registered and authorized users.

5.3 Software Quality Attributes

The software shall be capable of supporting an arbitrary number of surface computers, tablets and displays. It shall be capable of supporting an arbitrary number of active orders, that is, no orders shall be lost at any cost.