**Software Requirement Specification (SRS)**

**Online Cake Shop**

1. **Introduction**

**1 .1 Purpose:**

The Online Cake Shop web application is intended to provide complete solutions for customers through a single get way using the internet. It will enable customer to check for various cakes available at the shop and purchase cake online without having to visit the shop physically. The user interface will be simple and easy to understand even by the common man.

The project consists of list of Cakes displayed in various categories. The user may browse through these items as per categories. If the user likes a product he may add it to his shopping cart. He may even pay through a credit card or cash on delivery. Once the user makes a successful transaction he gets a copy of the shopping receipt on his email id. User has also option for ordering custom cakes according to their requirements like cake’s flavor, size, shape and weight.

**1.2 Scope:**

This system allows the customer's to maintain their cart for add or remove cake orders over the internet.

**1.3 Definitions:**

OCS-Online Cake Shop

SRS-Software Requirement Specification

GUI-Graphical user Interface

Portal- Personalized Website

Stockholder –The person who will participate in the System. And Owner of system

Ex. Customer, Administrator

UML- Software Engineering Notation for visualizing System in the form diagrams.

**1.4 Overview:**

This system provides an easy solution for customers to buy the product without going to the shop and also to shop owner to sale the product. This proposed system can be used by any naive users and it does not require any educational level, experience or technical expertise in computer field but it will be of good use if user has the good knowledge of how to operate a computer.

**1.5 General Description:**

The Online shopping application helps to manage the items in the shoppers' carts and also helps customers to purchase. The online shopping system will use the internet as the sole method for selling goods to its consumers.

There will be four types of module. Those modules are admin, customer, billing. Following are the detailed description of the modules.

* **Admin**

This is the first and very important module in the system. The online cake ordering system cannot be completed without the presence of the admin. The admin single handedly manages the system. There is only one admin in the system. The admin will have the power to create new record of each type of users, delete the existing records of each type of user or update the existing records of each type of users in the system.

All these records will be inserted in the system and will be kept in the database. The database can be MySQL. It purely based on your requirement. You can select any type of database you want as per your needs.

* **Customer**
* **Registration**

Any type of user who wants to be the part of the system will have to register. It is a very simple process. They just have to provide their some personal information. These fields are:

* Name – The user just has to provide full name that would be used to address the person.
* Password – It is a mandatory field to fill up by the user’s own customized password which will be use to login into the system. There will be some JavaScript in the field to check whether the user has entered a powerful password or not.
* Email ID – For easy communication purpose.
* **Login**

After you are registered in the system, you have to login into the system. You just have to provide your username which was given to you at the time of registration and the password.

If the credentials are matched with the tables stored into the database, you are given access to your account. Now, you can enjoy your shopping.

* **Select Flavors** – You will also have the luxury to select the cake based on your taste. There are a lot of verities for that. Choose it from:

Pineapple

Black Forest

Blueberry

Chocolate

Strawberry

Butterscotch

Vanilla and many more

* **Weight of the Cake** – When you have selected your favorite cake, just click on the icon of the cake or the cake’s heading. You can read out all the details of the cake. If you are satisfied, you can order it. But wait, that is not it. Select the cake based on the weight, be it 1kg, 2kg, 5kg, 10kg etc.
* **Wish List** – If you want to select 3-4 cakes and choose only one out of them, you can do it. Just create a wish list, name it whatever you want, and add those cakes into your wish list. When you are done with adding the cakes into the wish list, go to your wish list and choose the best cakes you want and order it and add it to the cart. If you want to order more than one cake, you can do it. Just add as many cakes you want to order. It is as simple as that.
* **Billing**
* **Cart Checkout** – When you have chosen the best cake of your interest and ready to order it online, just go to the cart option and provide the required information for completing the ordering process. First you have to provide the address at which you want your cake to be delivered, and the payment method, whether you want to pay the money at the time of delivery as cash or pay it online by debit card or credit card.

1. **Overall Description:**

The Online Cake Shop activity is based on ordering and selling the cake for each customer. Each customer will be given unique order number. As soon as this the customer’s name and contact details are added for reference. The user should enter the date of delivery and also the quantity. A separate bill is produced for the confirmation and the customer can do any advance payment. During day of delivery, the customer will be producing the bill of order. According to it, again a bill is generated for selling purpose and the customer is supposed to pay the balance amount. All the data’s are being stored in the database.

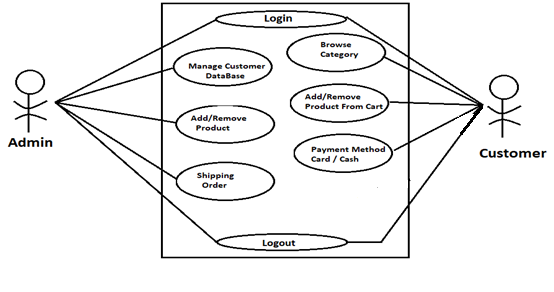
Admin has the authority to add cake details, flavor details and rate. And he also has the right to edit and delete those details to/from the list.

**2.1 Product Perspective:**

This system aimed towards a person who don’t want to visit the shop as he might don’t get time for that or might not interested in visiting there and dealing with lot of formalities.

**2.2 Product Function:**

OCS should support this use case:

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**2.3 User Characteristics:**

User should be familiar with the terms like Login, register, order etc.

**2.4 General Constraints:**

A full internet connection is required for OCS.

**2.5 Assumptions and Dependencies:**

Working of OSS need Internet connection.

1. **Specific Requirements :**

This section provides requirement overview of the system.

Various functional modules that can be implemented by the system will be –

**3.1 Description:**

**3.1.1 Registration**

If customer wants to buy the product then he/she must be registered, unregistered user can’t go to the shopping cart.

**3.1.2 Login**

Customer logins to the system by entering valid user id and password for the shopping.

**3.1.3 Changes to Cart**

Changes to cart means the customer after login or registration can make order or

cancel order of the product from the shopping cart.

**3.1.4 Payment**

In this system we are dealing the mode of payment by Card or Cash.

**3.1.5 Logout**

After ordering or surfing for the cake customer has to logout.

**3.1.6 Report Generation**

After ordering for the cake, the system will sent one copy of the bill to the

customer’s .

**3.2 Non-Functional Requirements:**

Following Non-Functional Requirements will be there in the insurance to the internet:

(i) Secure access to consumer’s confidential data.

(ii) 24X7 availability.

(iii) Better component design to get better performance at peak time.

(iv)Flexible service based architecture will be highly desirable for

future extension. Non-Functional Requirements define system

properties and constraints.

Various other Non-Functional Requirements are:

 **Security**

The System use SSL (Secure Socket Layer) in all transactions that include any confidential customer information.

The system must automatically log out all customers after a period of inactivity.

The system's back-end servers shall only be accessible to authenticated administrators.

 **Reliability**

The main pillar of reliability of the system is the backup of the database

which is continuously maintained and update to reflect the most recent changes.

 **Availability**

The system should be available at all times, meaning the user can access it using web browser, only restricted by the down time of the server on which the system runs.

In case of a of a hardware failure or database corruption, a replacement page will be shown.

 **Maintainability**

A commercial database is used for maintaining the database and application server takes care of the site. The maintainability can be done efficiently.

 **Accessibility**

Only registered users should be allowed to process the orders after authentications. Only GUI access of the system should be permitted to end users.

 **Efficiency**

The system should provide good throughput and response to multiple users without burdening the system by using appropriate number of servers.

 **Safety**

Software should not harm ethical and environmental conditions of the end users machine.

 **Modularity**

The system should have user friendly interface. It should be easily updated, modified and reused.

**3.3 Performance Requirements:**

There is no performance requirement in this system, because the server request and response to client is totally based on internet connection of customer.

**3.4 Technical Issues:**

This system will work on client-server architecture. The system should support some commonly used browser such as Mozilla Firefox, chrome etc.

**4 . Interface Requirement:**

The Customers may select the different options which will be open in another screen as :

1). Login Page

2). Registration Form

3). There will be a screen displaying information about product that the shop having.

4). If the customers select the buy button then another screen of shopping cart will be opened.

4.1) Shipping Details

4.2) Payment Details

5). After ordering for the cake, the system will

sent one copy of the bill to the customer’s Email address.

1. **Hardware Interface:**

The System must run over the internet, all the hardware shall require to connect to internet will be hardware interface for the system. e.g. modem, WAN, LAN

Specialized Server Infrastructure Hardware

The system should use distributed servers i.e. cloud for managing large amount of data so as to make it appear as single unit for end-user.

The system should have proper clusters for backup.