Software Requirements Specification

for

Online Cake Delivery

Version 1.0

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Revision History

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| **Name** | **Date** | **Reason for Changes** | **Version** |
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1. **Introduction**

Lives are getting Hectic day by day and buying cakes in these busy schedules is bit tough. To make it simple and also to deliver the cakes through the available people that voluntarily registers online; making this a new value added feature to the customer, for a faster and user friendly approach. The main objective of this application is to deliver cakes to any corner of the city using the interactive website.

This project will help in revolutionize the way events, parties are celebrated across the city, with no permanent staff and scheduling issues, delivery on time will be taken care by using a single site with a few clicks of buttons.

**1.1Purpose**

Describing the functional requirements and software specifications for Online Cake Delivery. This document will cover each of the system’s intended features and also covers hardware requirements which are of high priority and committed for release 1.0.

**1.2. Document Conventions**

This document features some terminology in which readers may be unfamiliar with. See Appendix A (Glossary) for a list of these acronyms and their definitions. The format of the document would be Boldface and 12 fonts for headings and the rest with ‘Times New Roman’ 12 fonts.

* 1. **Intended Audience and Reading Suggestions**

This document is intended for all individuals participating in and/or supervising the Online Cake Delivery such as Developers, Customers, Administrator, Business analysts, QA team, managers (TA).

**1.4. Project Scope**

This project is to develop a web application, which helps customers to get cake from their preferred choice of store without a walk to the store. The scope so far has been the completion of the basic interfaces that will be used to build the system. The database used, has been set up and given the necessary permissions.

**1.5. References**

* <https://en.wikipedia.org/wiki/Gantt_chart>
* <https://www.youtube.com/watch?v=TjxL_hQn5w0>
* <http://economictimes.indiatimes.com/definition/risk-management>
* [www.processimpact.com](http://www.processimpact.com/)
* <http://reqtest.com/requirements-blog/functional-vs-non-functional-requirements/>

1. **Overall Description**

**2.1 Product Perspective**

The ‘Online Cake Delivery’ replaces the existing system of customers manually going store and buying cakes only after visiting their preferred stores. Users simply need to login into application, enter the type of the cake they want and from the store they need it. When they submit the order from their preferred choice of from their preferred store Then they get confirmation. Depending on the type of users i.e. Customers, Deliverer and Admin they are assigned different privileges. Customers can order cakes online as they

wish from preferred store. Admin can delete/edit/add deliverer, stores etc. admin can also add cake details. Deliverer gets the notification about the order details like where to get the cake and where to deliver it. Here delivery guy buys the cake with is money and it is collected from the customer after delivery.

**2.2 Product Functions**

* Customer registration
* Login to the system for registered users
* Search the availability of cakes
* Payment is flexible with card
* Confirmation for the delivery to the customer
* Sending the confirmation and mailing the address to the deliverer
* Deliver the cake for the mailing address at given time
* Feedback for the delivery

## 2.3 User Classes and Characteristics

**User** The main functionalities of user were Registering, Login. First User has to register by giving his details like Name, Email Id, Phone number, Address. After successful registration user can login by using his Username and Password.

**Customer User** Customer user is a type of User class who is distinguished based on the functionalities offered. After Login to the system Customer can have functionalities like Search a cake, Order Request, Feedback.

**Deliverer User** Deliverer user is a type of user class who is distinguished basing on the functionalities offered**.** After Login to the system Delivere can have functionalities like View the orders, selection of an order, delivering the cake in time.

**Admin** After sign up process, admin logs in into the application. Admin can add/delete/edit information of customers, deliverers etc. who signed up into the application. Admin would send the deliverer details to customer once the order is confirmed.

**Order** Order has the details like Order ID, Address details, Deliverer details, Customer details. Customer initiate’s order once deliverer selects the order It would be get confirmed.

**Order List** Order List consists of all orders with their Order id, order status. Deliverer view the order list and selects the particular order based on his interest.

**Shipping Information** It consists of complete details of Delivery address. It is associated to each order.

**Payment** Payment is like Cash on delivery, once customer pays money deliverer updates delivery and payment status.

**Feedback** After completion of delivery customer can give is feedback on Cake, Deliverer, and Service.

**2.4 Operating Environment**

This application is compatible on Windows vista and above and Mac 10.1.

It requires mostly used web browsers like Internet Explorer, Mozilla Firefox, Google Chrome.

Memory: device will have 2GB internal hard drive. Software and database cannot exceed this amount

**2.5 Design and implement constraints**

Its front end should be implemented using PHP, HTML and Java-script.

At the backend we used by the MYSQL database.

The web server XAMPP is used to store the data and recover the data.

**2.6 Assumption and dependencies**

It is assumed user should have the basic knowledge with computer.

This system of application connection in the system.

It is assumed that all information given by the user for delivery is appropriate.

1. **External Interface Requirements:**

**3.1 User Interfaces:**

The main page, where user can login or register as a new user.

The registered user will be a given the option to edit their profile, search for the available cakes, order the cakes.

After the cake is ordered, it redirects into interface where payment can be made.

If the user is deliverer the interface has the available orders.

If the user is admin then it takes to a new page where admin can manage the cakes availability and order confirmation.

**3.2.   Hardware Interfaces**:

* Processor: Pentium or Higher.
* RAM: 512MB or Higher

**3.3.   Software Interfaces**:

* Operating System:  Unix, Linux, Mac, Windows etc.
* Development tool: XAMPP, PHPMyAdmin.
* Data Base: MySQL

**3.4. Communication Interface:**

* HTTP is used for send data between the server and the client and also for establishing connection between user and database.
* SMTP is used to send and receive emails and receive the confirmation of order.

1. **System Features**

**4.1 Sign Up/Register**

**4.1.1 Description and Priority**

To all the new users they have to register by clicking the register button.

Priority: 1.

**4.1.2 Stimulus/Response Sequences**

The user will be redirected to register interface. It asks for the user info and checks whether the user id and other details are previously saved in the database, if so it generates a message that the user is already registered and asks to sign in with his details.

**4.1.3 Functional Requirements**

REQ 1: - full name mandatory TYPE: **-** String

REQ 2: - emailmandatory TYPE: - Alphanumeric

REQ 3: - password mandatory TYPE: - Alphanumeric

REQ 4: - address mandatory TYPE: - Alphanumeric

REQ 5: - mobile mandatory TYPE: - Numeric

REQ 6: - Register button TYPE: - Submit Button.

**4.2 Login**

**4.2.1**  **Description and Priority**

Login is function where the user logins each time.

priority is 1.

**4.2.2 Stimulus/Response Sequences**

If the user is a customer he should enter the valid user id and the password it also has a link when the user has forgotten the password when the user clicks on that the user will send the password reset link to the email.

**4.2.3 Functional Requirements**

REQ - 1: - User Name Mandatory TYPE: -String

REQ - 2: -Password Mandatory TYPE: - Alphanumeric

REQ - 3: -Login Button Mandatory TYPE: -Submit Button

**4.3 Search for the cakes**

**4.3.1 Description and Priority**

The valid user can search for the cakes available in the website, he can see price of each cake and select the cake he likes.

Priority :1

**4.3.2 Stimulus/Response Sequences**

The user can select the any of the available cakes, if he wants any cake which is out of stack, he can request it for the cake with the delivery time then he gets the valid response, whether the cake can be delivered in the feasible time.

**4.3.3 Functional Requirements**

REQ - 1: - Cake Details mandatory TYPE: - STRING

REQ - 2: - show available cakes mandatory TYPE: - BUTTON

**4.4 Order**

**4.4.1 Description and Priority**

Only the validated/registered user can order a cake and post his mailing address and other details for the order to be completed.

Priority :2

**4.4.2 Stimulus/Response Sequences**

The user can order a cake, and he could update his appropriate mailing address which should be deliverable, if the address is not deliverable, he gets an error message that delivery is not available, and asks for another address.

**4.4.3 Functional Requirements**

REQ - 1: - Name Mandatory TYPE: - String

REQ - 2: - Mailing Address Mandatory TYPE: - String

REQ - 3: - Phone Number Mandatory TYPE: - Numeric

REQ - 4: - Zip Code Number Mandatory TYPE: - Numeric

REQ - 5: - Time of delivery Mandatory TYPE: - String

REQ - 6: - Date of delivery Mandatory TYPE: - Time

REQ - 7: - Submit Mandatory TYPE: - Button

**4.5 Confirmation**

**4.5.1 Description and Priority**

The confirmation of the order is given by the available deliverer with in the slack time of 30 min from the delivery time specified by the user. After the order is accepted by the deliverer the confirmation email is sent to the user email and the updated in the database.

Priority :2

**4.5.2 Stimulus/Response Sequences**

If the order is confirmed by the delivery person then a confirmation mail will be sent to the customer, else if the slack time nears the delivery time and no one accepts the order then cancellation mail will be sent to the user.

**4.5.3 Functional Requirements**

REQ - 1: - Deliverer Id Mandatory TYPE: -String

REQ - 2: -Expected time of delivery mandatory TYPE: -String

REQ - 3: -Contact Number of deliverer mandatory TYPE: -Numeric

* **Priority Legends**

|  |  |
| --- | --- |
| Priority | Explanation |
| 0 | Low |
| 1 | Normal |
| 2 | High |

1. **Other Non-functional Requirements**

**5.1 Performance Requirements**

Internet connection is needed for the customers for using the application.

In case of opening forms, of popping error messages there is delay much below 2 seconds.

In case of opening databases, sorting questions and evaluation there are no delays and the operation is performed in less than 2 seconds.

**5.2 Safety Requirements**

Only authorized person can login into the system.

The data which is to be transmitted to the server without any changes.

**5.3 Security Requirements**

The administrator has the access permissions to update the database.

No user gets access to system until he gives valid user id and password.

If the user requests for the new password it should be reset by email.

**5.4 Software Quality Attributes**

**Availability:**

Checking that the system always has something to function and always pop up error messages in case of component failure. In that case the error messages appear when something goes wrong so to prevail availability problems. **Usability:**

Checking that the system is easy to handle and navigates in the most expected way with no delays. In that case the system program reacts accordingly and transverses quickly between its states.

**Functionality:**

Checking that the system provides the right tools for editing question databases, creating session tests and analysing the test sessions. In that case the tools that the Database editor provide are the ones that provide that attribute.

**5.5 Business Rules**

* Once the user has ordered the cake and got the confirmation, he can only cancel the order 2 hours before the time to be delivered.
* The user cannot cancel the delivery after the deliverer reached the destination
* No refund will be provided if the cake gets damaged.

**6 Other Requirements**

• The deliverer should have his own medium of transportation.

Appendix A: Glossary

|  |  |
| --- | --- |
| SMTP | Simple mail transfer protocol |
| PHP | Hypertext preprocessor |
| XAMPP | Cross platform Apachy- Maria – PHP-Perl |
| HTTP | Hypertext transfer protocol |