Software Requirements Specification

Food Ordering and Restaurant Management System

Author(s): D Sarulatha

Version: 0.1

Date: March 1, 2023

Contents

1. Objective and Scope

The objective and the scope of the project is to build a Food Ordering and Restaurant Management System that can order food, managing the restaurant by adding / remove /update menus etc.

The scope of the product includes the following basic features:

- The food ordering and restaurant management system is a website that is created efficiently to manage the restaurant and the food orders through online.
- This online system will be particularly useful for managing the restaurant.
- This system reduces the paperwork, and this will reduce the time
- The customer can be able to add their need like they need in dine or they want to take away the orders.
- The customer does not need to wait in the restaurant after booking. They can be able to book and mention the time when they can be able to collect the orders

2. Project End Users

This system can be used by both the customers who want to order food online and the owners who want to manage their restaurants and their orders online.

3. Features

3.1 Home Page

The website starts with the homepage. The homepage also has details of the restaurant, menu details, contact forms, search, and login / register.

3.2 Customer Account

The customer must create an account in the system by registering themselves. Without an account the customer cannot be able to place order or cancel order.

3.3 Admin Account

Admin has to login to the system to access their resources like add menu, update menu, remove menu and to manage order status.

4. Functional Requirements

4.1 Login to the System

Each user should be authenticated with an Email ID and Password to login into the system.

Validations for Email ID and Password.

Email ID: It accepts only the valid email address.

Password: It can be anything of the users' choice.

(Once the information given is verified then their will have a navigation to the website based on their profession)

4.2 Register to the System

The customer needs to register before logging into the system. The customer must fill in the details on the registration form.

Details: name, email id, phone number, password, confirm password.

4.3 View Menu

After logging in the customer can be able to view the menus and they can be able to add menus in their cart by clicking the add to cart button.

4.4 Add to Cart

The menus are added in the cart then the customer can be able to increase the menu quantity, remove the menu, or add new menus etc.

4.5 Place Order

Once they are ready to place the order, they click the proceed to order button and then choose the time, date, mode of order, type of payment and they click confirm order to place the order.

4.6 Cancel Order

Once the customer places their order, their order details are stored on the orders page. The customer can be able to cancel their orders, or they can be able to know their order status whether the order is ready or the order is cancelled by the admin.

4.7 Add/Remove/Update Menu

Admin can be able to add new menus, remove an existing menu, and update an existing menu after successful login.

4.8 Manage Order Status

The customer order details are stored on the manage orders page. So, the admin can change the order status whether the order is ready or cancel the order if the restaurant is closed for certain reason.

4.9 Log Out from the system

The users can click logout button to terminate their session on the website.

5. Non-Functional Requirements

5.1 Usability

The system should provide an interactive user-friendly interface that is easily understandable for all customers.

5.2 Availability

The system should be available at least during the restaurant operating hours and must be recovered within an hour or less if it fails. The system should respond to the requests within ten seconds or less.

5.3 Performance

The most important quality is system performance. The system should provide consistent performance with easy tracking of records and updating of records.

5.4 Maintainability

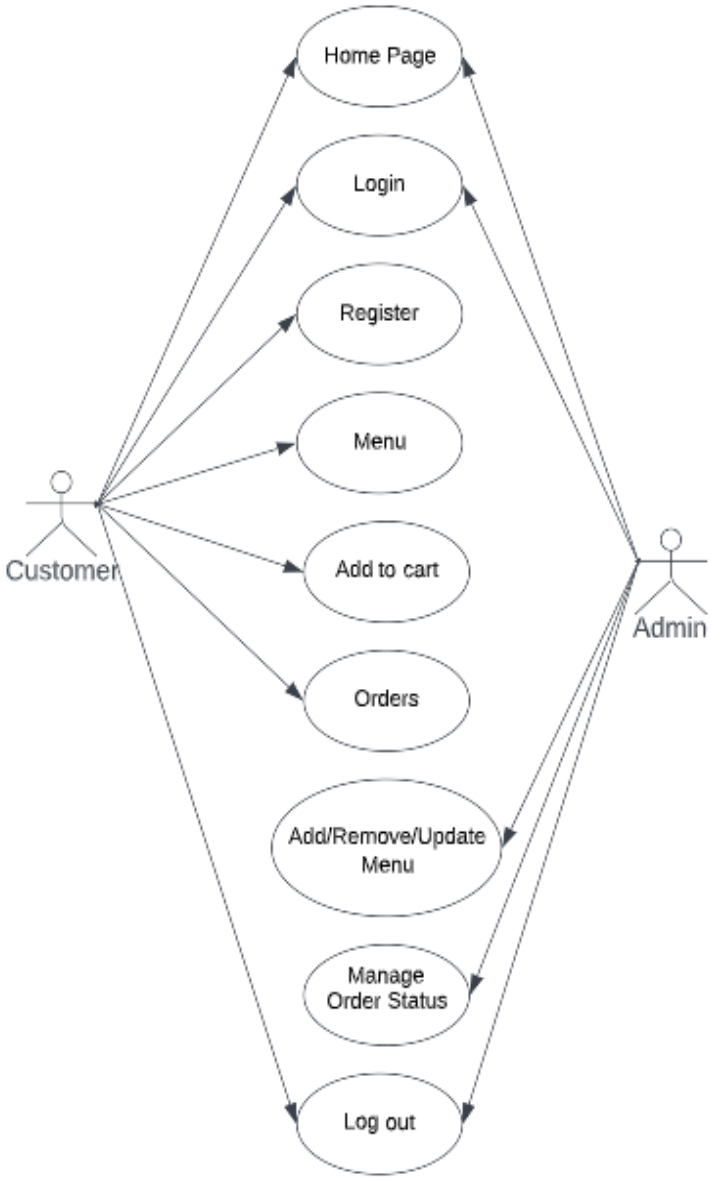
The system should be easily maintainable and adding new features and making changes to the system must be as simple as possible.

5.5 Security

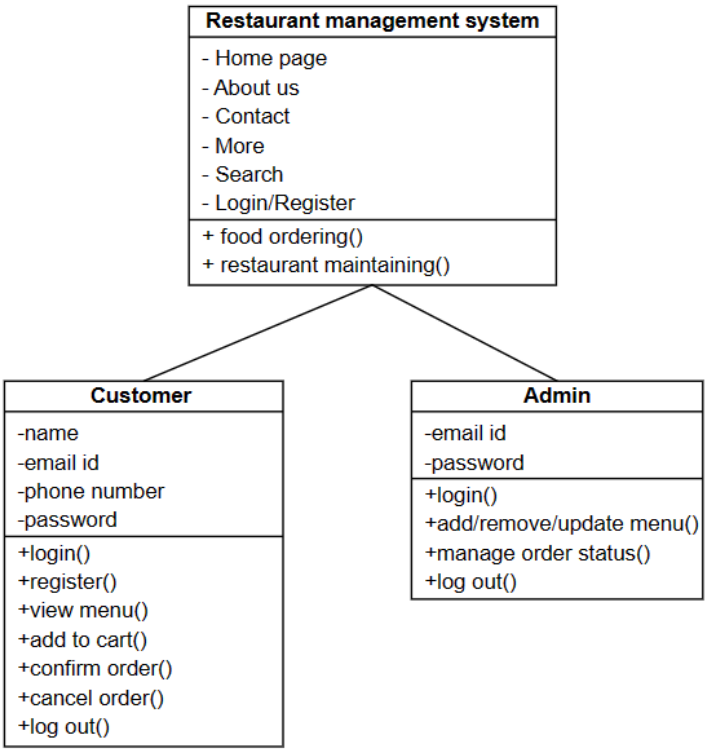
Security is the most important feature; it allows only authorized customers and admin to access the system and view and modify the data. Without Register to the system the customers cannot be able to place orders.

6. Diagrams

6.1 Use Case Diagram

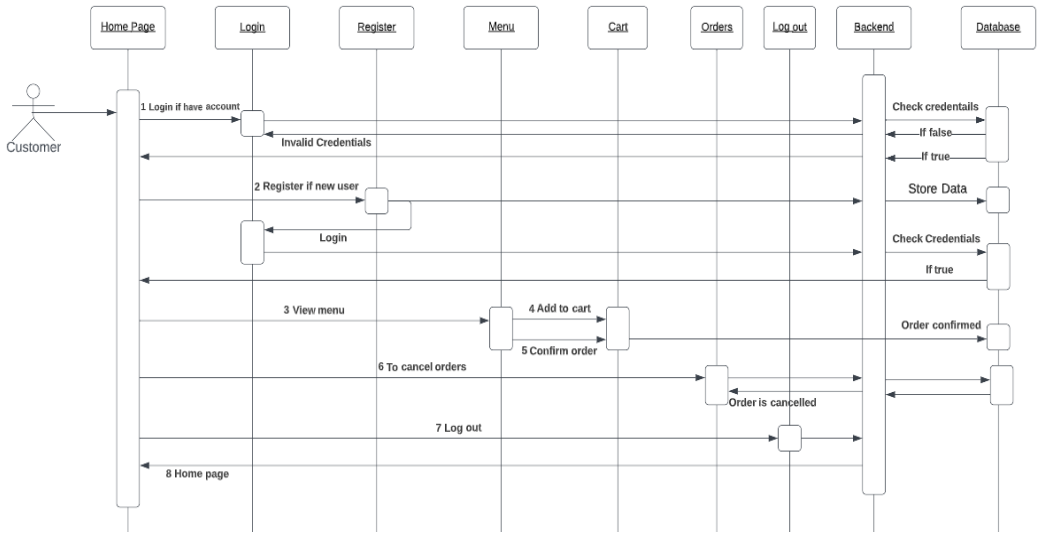


6.2 Class Diagram

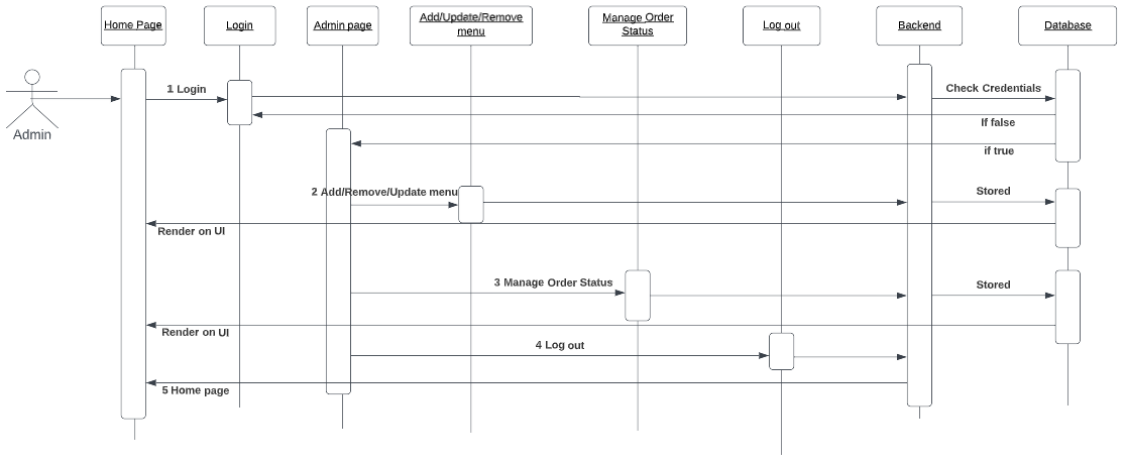


6.3 Sequence Diagram

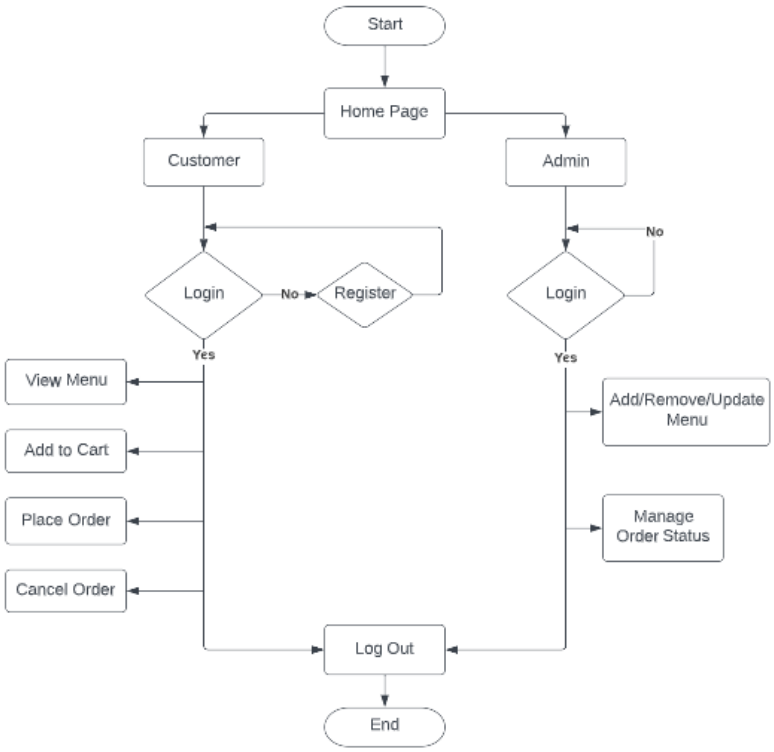
Customer:



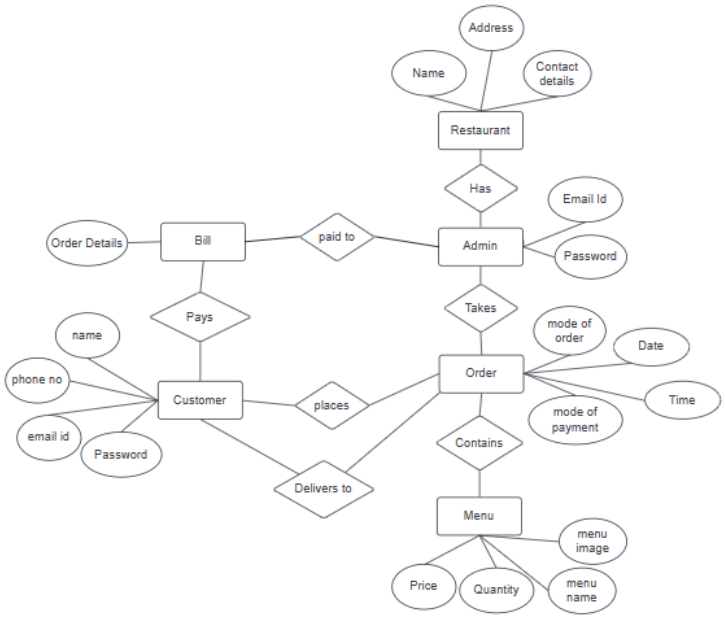
Admin:



6.4 Flow Chart



6.5 Entity Relationship Diagram



7. Test Cases

7.1 Test Case 1

While the user is registering, providing the invalid details should throw an error message.

7.2 Test Case 2

Login with invalid email id and password should throw an error message.

7.3 Test Case 3

Adding the menus to cart without login into their account should throw an error message.

7.4 Test Case 4

Place the order without adding menus to the cart should throw an error message.