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# **SOFTWARE REQUIREMENTS SPECIFICATION**

**FOR**

## **Social Serving Food Delivery System (SSFDS)**

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**<Malware>**

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# 1.Introduction

## 1.1 Purpose

The purpose of the project is to design and develop a food delivery system from which user can make an order for the food and NGO can also by the food at cheaper rate. It is an Non-Profit Organisation(NPO) that tracks the left over food from restaurants and hostels.

## 1.2 Document Conventions

The following standards document conventions are used in our document: IEEE STD 830-1998, IEEE Standard for Software Requirement Specification.

## 1.3 Project Scope

The our goal of project is to develop an application which can be helpful for customer, NGOs and will also reduce the wastage of food and will be helpful for the needy to get food.

## 1.4 Reference

The documents and websites referred to, are as follows:

- IEEE STD 830-1998, IEEE Standard for Software Requirement Specification.

## 2. Overall Description

### 2.1 Product Perspective

The Online Social Serving Food Delivery System is itself a self-contained product, which provides a platform for the Restaurants to give away the left over food available to NGOs and customers who can purchase for their own or donate it to NGOs.

### 2.2 Product Functions

⇒ The features provided by the application are:

- Login for different entities- Customer, NGO, Restaurant, NPO[Admin]
- The customer can add their details of location, email, password and name
- The NGO can fill the details and can order the food from restaurant at discounted rate
- The Restaurant can add details of food items, price per plate, address of restaurant.
- Customer and NGO can place the order and mention their address and opt for prepaid or cash on delivery option.
- Customer have an option to donate to an NGO after purchasing food items
- Details of food transaction will be updated in the order history

### 2.3 User Classes and Reference

#### • Restaurant

- Create account with login credentials.
- Add address.
- Add items, their respective count and price.

#### • Customer

- Create account with login credentials.
- Add address.
- Check out various food items available from various restaurants.
- Make order and choose whether purchasing for private use or for donating to an NGO.
- Make payment or opt for COD.

- **NGO**
  - Create account with login credentials.
  - Add address.
  - Check out various food items available from various restaurants.
  - Place order make payment.
- **NPO[Admin]**
  - Manage the status of Restaurants, Customers.
  - Assign time window of 1 hour to restaurants in which they can add details of left over food.
  - Validate login credentials of NGOs.

## **2.4 Computing Environment**

The software is an online based platform and needs internet connection for loading the data from the database. It is compatible on all the browsers which supports bootstrap 5, react js and mongodb.

## **2.5 Help Support**

The application also provides help support if any problem happens in the functioning of application

## **2.6 Dependencies**

The user should be able to install all the dependencies that are required like react and should be able to connect to the database and able to run the application.

## 3 External Interface Requirements

### 3.1 User Interface

The application has different functionality for different users, users can login and satisfy the credential and can access the functionalities.

#### • Homescreen

##### -Navbar

##### \* Login

Email

Password

##### \* Sign up

Name

Address

User-type: Restaurant , NGO, Customer

##### -Body

##### \* View Restaurant

#### •Restaurant

##### -Personal Details

##### -Add a new food item

##### \*Add a title

##### \* Add a description

##### \* Add price

##### \* Add availability quantity

##### \*Remove a food item

##### \*See order history

#### •Customers

##### – Personal Details

##### – List of available restaurants

##### \* List of food items their details

- \* Add to cart option
  - Go to cart
  - Option to donate to a NGO
  - Payment options : COD or prepaid
  - Purchase History
- **NGO**
  - Personal Details
  - List of available restaurants
    - \* List of food items their details
    - \* Add to cart option
  - Go to cart
  - Payment options : Prepaid
  - Purchase History
- **NPO[Admin]**
  - Personal Details
  - List of registered customers, NGOs restaurants.
  - Transaction History
  - Change time window of restaurant [when they can update the details of left over food items].
  - Process an order request assign a delivery agent

## 3.2 Software Interface

The Software interface of project are listed below:

- The application uses bootstrap 5 classes for styling and responsive nature of website.
- Beside of that react js a framework under java script is used for the client side.
- Mongodb is used as cloud database
- The application uses Express js for fetching data from database
- All the data after the interaction on client side will be stored in mongodb cloud based database.

## 3.3 Communication Interface

- All communication will be done via web browser with standard HTTP protocol.



## 4 System Features

### 4.1 Signup

#### Description

- A user can sign up thorough three modes: Customer, NGO, Restaurant
- Every profile have different functionality

#### Stimulus/Response

- For registration user will be asked to provide specific information like name, email, password, location.
- The registration link is available in navbar of home page

### 4.2 Profile

#### Description

- User can see their profile

#### Stimulus/Response

- The profiles will be only available if the user had register and logged in with some specific information.
- User can check the profile through the button on navbar.

#### Functional Requirements

- This requires the use of some common Bootstrap framework to display buttons.

### 4.3 Menu of Restaurant

#### Description

- At the time of registering the restaurant will not be asked to create the menu but after the redirection. They will be allowed to add items, delete items and change the details of the menu item. The menu will be displayed by request from the restaurant/customer/NGO.

#### **Stimulus/Response**

- After logging as a Restaurant, Restaurant owner can add food with price and quantity.
- The added food can be visible to customer and NGO, under the 'view Restaurant'
- The restaurant can add/edit/delete the food.

#### **Functional Requirements**

- Bootstrap is used for designing all the button of add food and creating a form for giving information about the food, hook property will be used to add the food into the database.

### **4.4 Cart**

#### **Description**

- After selecting food to order user can add the food to the cart list
- Cart list is different for different user it is the food they want to proceed for buying

#### **Stimulus/Response**

- The content of the cart will have the name, image, price of food and total plate ordered.
- The user can delete, edit or add food into cart
- There will be button to donate to the NGOs
- Button to make payment is also there

#### **Functional Requirements**

- Designing cart requires bootstrap framework cards.

### **4.5 Donate to NGO**

#### **Description**

- After Add To Cart button, Food and their number of plates are stored in the cart list. The cart list is different for every customer/NGO and can be accessed or will be displayed by request from the respective Customer/NGO.

### **Stimulus/Response**

- Donate to NGO button is in the cart page
- User can donate the food to the NGOs
- After clicking the button user will be directed to the page where he can choose the NGO to which he want to donate.
- A payment mode will be displayed in the radio button
- User can choose to pay

### **Functional Requirements**

- It requires basics framework of bootstrap, but for payment we will use ?? API

## **4.6 Customer/NGO payment**

### **Description**

- After Donating NGO Button, Page redirects to choose Mode Of Payment among the list.

### **Stimulus/Response**

- All Payment Mode will be displayed in the radio button.
- The User can choose anyone among them.
- Button To Make Proceed is also provided.

### **Functional Requirements**

- This requires the use of some common Bootstrap framework to add the modes on the page and to display buttons. After the button, we used ?? API, to make online transaction.

## **4.7 Order History**

### **Description**

- User can see the order history of their order

### **Stimulus/Response**

- Link for order history is present in navbar

#### Functional Requirements

- The content of order history will be shown in the form of card
- This requires to use the bootstrap framework to add cards

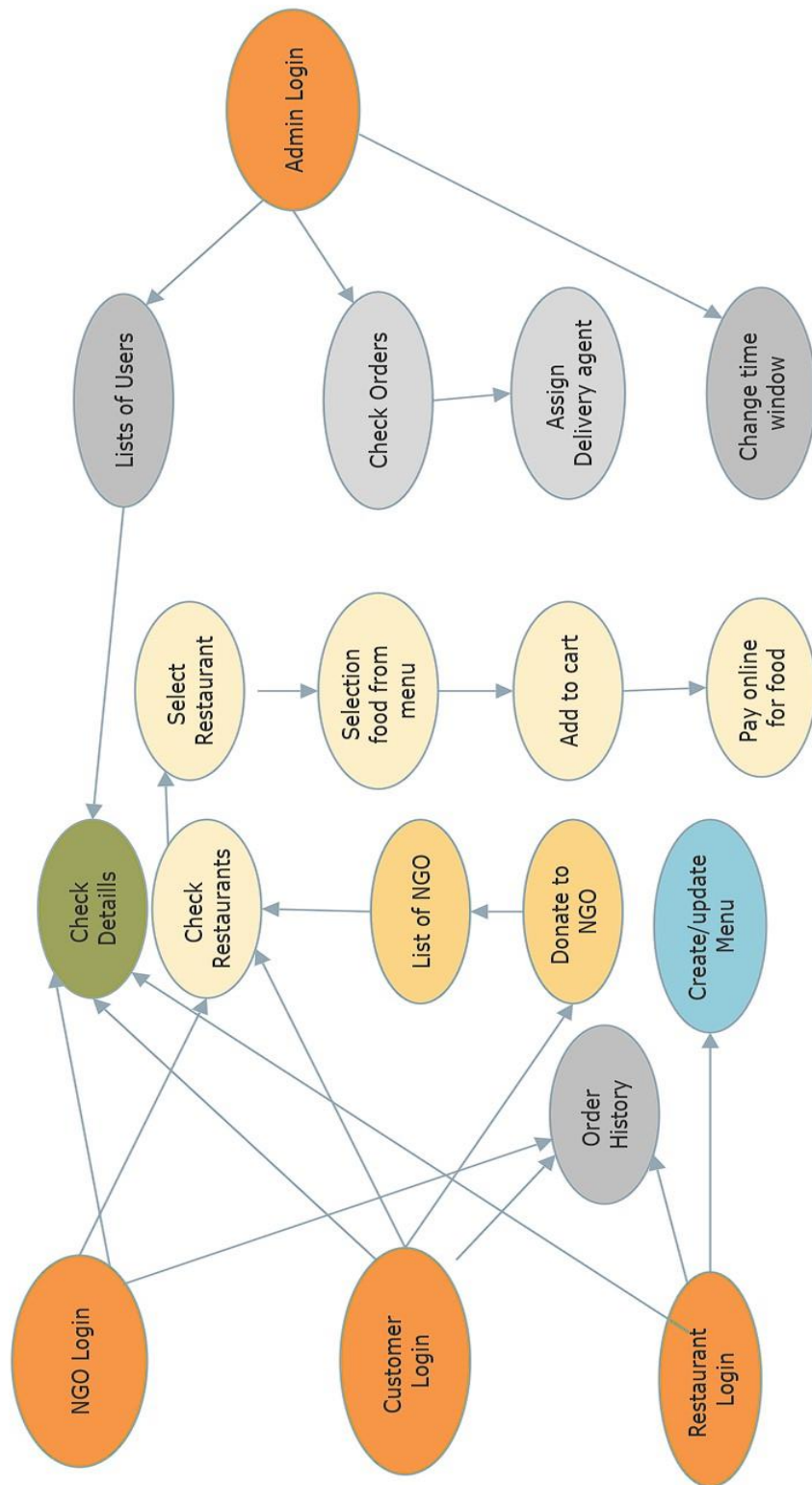
## 5. Other Requirements

- Server can securely capable to handle data upto 512MB
- A server capable of handling heavy workload and queries

### 5.1 Appendix A: Glossary

- React.js: A powerful javascript library that can be used for creation of client site
- Express.js: A javascript backend framework for web development
- MongoDB: Online cloud based database

### 5.2 Appendix B: Analysis Model



Class Diagram

