system has 3 roles namely the broker, doner and donee

* Registration Process:
  + doner:
    - The doner must be a restaurant only
    - The donors must register themselves on the app by filling up their name, location phone number and the type of cuisine they make
  + donee:
    - The donee can either be an individual or an organization
    - The donees must register themselves on the app by filling up their first name, last name, number of family members, phone number, address(city,country).
    - Donees can mention their dietary preferences such as the type of cuisine, spicy or non-spicy food
    - while registering a donee can choose to get alert from a specifically rated restaurant eg: 3stars and above or 5 stars only.
  + broker:
    - During registration of a donor, the app will generate a unique identification number for the broker to identify the donor.
* Operations:
  + doner:
    - The donees can request for receiving a particular quantity of food. A family of n member can request to get food for 1,2,3…maximum n people.
    - When a doner notifies the app about food, they must be able to mention the name of the dish, the type of the cuisine(optional-for multicuisine restaurants), and the ingredients of the dish.
    - A donor can be in 5 states:
      * registration
      * active- a restaurant that has been approved and donates atleast x times a weak will be marked as active
      * approved- after registration the donor may be approved to donate food as it has been successfully
      * verified
      * not approved- after registration, if the donor is not successfully verified then it will be send to not-approved state.
      * suspended
    - Each donor can set a price at which they would like to sell their food
  + donee:
    - A donee can be in any of the 3 states
      * registration state
      * approved state - Only an approved donee will receive notifications/alerts about food donation
      * suspended state- not eligible to receive notifications or re-register
    - Each donee can select the price range of food for which they would want to be notified.
  + broker:
    - if supply is greater than demand, then the app will send out food broadcasts on a first-come-first-serve basis
    - If demand is greater than supply, then app will make food reservations on a first come first serve basis
    - After a reservation is made, the app informs the donee about the location and phone number of the restaurant from where the food package must be picked up.
    - After a reservation is made the app notifies the restaurant about the name and quantity of the food that they need to prepare/pack.
    - The broker has a view the information of all registered members
    - if the number of complaints and bad reviews exceed the limit set by the broker, the app will automatically suspend the donor/donee
    - After probation the user can change the state of a donor/donnee from suspended back to approved
* Match making process:
  + doner:
    - A donor should try to notify the app about the food that they would like to donate before the set deadline
    - The donor can file complaints against the donees if there is any misbehavior or if the donee did not show up-> which led to an ultimate wastage of food
  + donee:
    - A donee should try to make a request on the app before the set deadline
    - After consuming the food, the donees can rate the donor.
  + broker:
    - Broker sets a deadline for sending in requests.
    - The app finds matches based on 3 filters: the type of cuisine preferred by the customer, the price if food set by the donor and the price range selected by the donee
    - Once a match is made the app sends alerts to both the donner and the donee.
* Rating process:
  + doner:
    - After donating a food package to a donee, the doner can rate the donee based on their behavior.
    - A new donor is given no ratings.
  + donee:
    - A donee can file a complaint against a donor if the donor violated rules eg they did not deliver
  + broker:
    - The app takes a mean of the first 5 ratings to set a rating for each restaurant

The broker can dynamically change standards

The donee /doner can dynamically edit their profiles

need to ask about the performance, how do we make the id-> is there a specific format?

user interface?

did not understand the set deadline guarantee-? what if supply is less then demand -> for donees

or if demand is more than supply?

New clearifications:

* Registration:
  + Donee:
    - Indivisuals must enter the number of family members
    - Organizations donot need to enter the number of family members
  + app:
    - The app should not restrict the organization to a maximum number of meals
    - The app should request an individual to be able to request meals for a maximum of the amount of family members
    - The app generates a unique identification number for the donors. This unique id is only visible to the broker and can only be for admin use
* Operation:
  + Donor:
    - while notifying the app about a food donation, the donor must choose the amount of discount they want to set on their menu. 100% discount means that the donor wants to give the food for free.
    - while notifying the app about a food donation, the donor must select food items from their menu which they will be selling for a day.
  + app:
    - If a donor is newly approved or has not posted any notification for food in the last 2 weeks, the app will mark the donor as inactive.
    - If a donor posts every day for 2 weeks in a row, then the app will automatically label the donor as an active donor.
    - the app allows the broker to approve, disapprove, and suspend a donor/donee.
    - whenever a broker manually changes the state of the donor/donee, they will be notified about it via the app.
    - a disapproved donor/donee will not be able to reregister on the app.
    - the app will only permit an approved (non-suspended) donor to post notifications
    - the app will only permit an approved (non-suspended) donee to make requests for food
    - a suspended donor/donee will not be able to use the app temporarily until they are marked out of the suspension state by the broker.
  + Donee:
    - Once a successful, reservation has been made, the donee will not be permitted to make another food reservation for the next 3 hours.
* Profile
  + Donee:
    - Dietery Preferences
      * food allergies- meat/red meat/pure veg/vegan/dairy products
      * preferred ratings-
      * cuisines- The donee can select what cuisine they prefer ( eg: Arabic/Indian)
  + App: The app will do match making based on the donees profile
  + Donor:
    - A donor must submit their food menu along with their original prices
    - The original prices set by the donor should be fixed
* Ratings:
  + app:
    - The app allows a donee who received food from a donor to rate that particular donor within 4 days time

single time zone- every one can make a single account only- there is only one broker

This is just a small overall frame—need to make lots of additions:



# 1 Introduction

*ID* : 2

## 1.1 System Overview

The Restaurant for charity: Food donation platform is an application that will allow restaurants to reduce food wastage by offering the food to signed up underprivileged users at discounted prices.

*ID* : 3

## 1.2 Operating Environment

The application will be a web application run on a browser. The optimal and minimal configurations have not been captured yet.

*ID* : 1

*ID* : 4

# 2 Functional Requirements

*ID* : 5

## 2.1 Specific Functional Requirements

## 2.3 External Interfaces and Database Requirements

*ID* : 31

No specific interface requirements were captured yet.

## 2.5 Foreseeable Functional Changes and Enhancements

*ID* : 35

re-registeration for disapproved people

priority mechanism

*ID* : 36

# 3 Non-Functional Requirements

*ID* : 37

## 3.1 Specific Non-Functional Requirements

## 3.2 Error Handling

*ID* : 45

No specific exceptional conditions were captured yet.

*ID* : 46

## 3.3 Development Requirements

## 3.4 Foreseeable Non-Functional Changes

*ID* : 49

There are no foreseeable non-functional changes captured yet.

*ID* : 50

# 4 Glossary and Index