The 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 types of cuisines 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: 3 stars 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:
  + donor:
    - When a donor notifies the app about food, they should 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:
    - 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.
    - 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:
    - the app will send out food broadcasts on a first-come-first-serve basis
    - After a reservation is made, the app informs (through a pop up notification)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(through a pop up notification) 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 broker 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.
    - Donee can file complaint against the doner if food is spoilt
  + 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

do wee need to offer an online payment or cash on delivery mechanism/receipt/

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?

Non-FR

properties:

reliability

response time

storage requirements

scalability

accessibility: After the reservation has been made, pop notifications to both the donor and the donee should be sent with a latency of no more than x seconds/

compliance:

documentation

fault tolerated

privacy

quality: If a food item has been posted for more than x hours, then the app will not allow the reservation of that item and will also not broad cast it any further.

response time

robustnes

effectiveness

performance: An app should be able to handle x users without affecting its performance

useability: The error rate of donees reserving their food requests must not exceed

Constraints:

i/o device capability

system representation