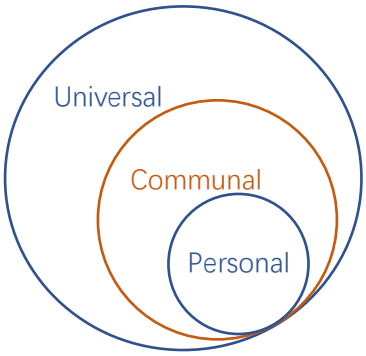
ECE-GY 9953 Advanced Project Plan - Spring 2022

Jiahao Wang – jw7394
Jiazhao Shi - js12624

Introduction:

Developing an application that mixed the function of “Yelp!” and “Uber Easts”.
The recommendation and content of app in most of apps are based on personal or universal rating and habits. We want to make an app based on concern of community. Users can join diverse communities, like Asian Community, Brooklyn Community, NYU Alumni Community.



Motivation:

American community has a different taste from East Asian community. Thus, they have a quite different rating criterion on Mexican food, and East Asian may not prefer the food if most of ratings are from American, even though overall rating of the restaurant is high. Our app will show both the overall rating and the individual ratings from different communities.

Technique

Database, UI/UX design, Geo-based search, GUIs, Threads, Networking, Algorithm. (May include machine learning)

Programming Language (May use)

Java, Swift, Python, HTML, CSS, JavaScript, C++ and more

Platform

iOS/Android/website (We will choose a platform)

Function

Function 1: Account System

1) User Account
    a) Login, create, delete account
    b) find forgotten password and username, edit profile, manage payment method and more.
2) Business Account
    a) Login, create and delete account
    b) find forgotten password and username, edit profile, manage collection method and more.
3) Customer Representative account
    a) Login account
    b) Response the questions of users
4) Admin Account
    a) Delete ratings, comments, and other accounts
    b) Create, delete customer Representative account
    c) Check status of all orders

Function 2: Rating System

1). Environmental Rating System

2). Filter based on different communities, food type, date and more.

3). User account can post their rating

Function 3: Searching System

1) User account can search restaurants, locations or foods.
2) Filter based on different communities, food type and more

Function 4: Map System

1) Show direction for user to restaurant.

Function 5: Order System

1) User can place, delete, and track the order status.
2) Restaurant can accept or reject order.

Function 6: Recommendation System

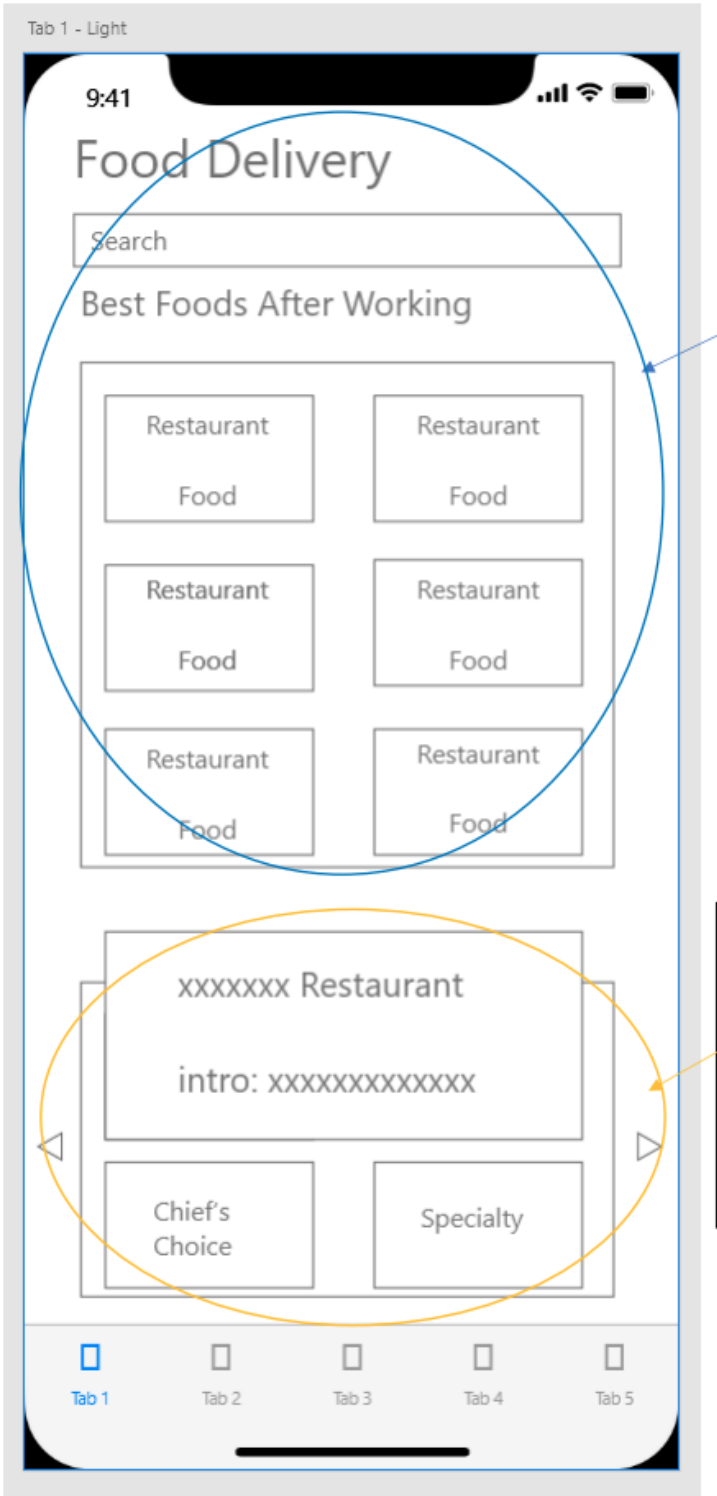
1). The recommendation system can pop the restaurant information based on community, food type and popularity.

Function 7: Reservation System

1). Restaurant can open or closed the reservation function.

2). User can book the seat for restaurant.

Some Brainstorm ideas



The Best Foods After Working Part will display at 16:00 to 21 :00. See, the white-collar worker can directly see the "Best Foods After Working" when they open the app. Best Foods After Working contains 6 popular restaurants that orders by workers with high frequency. People want to eat something, but they don't know what they want to eat. They may be inspired by this part. If the users cannot find the foods they want, they can use the search bar.

Sometimes, a name of restaurant and a name of a food cannot let user to choose. So, I make the bottom half as a small introduction window for restaurant. User can see the specialty of the restaurant and brief introduction. And click the small triangle on the two sides can quickly switch to the next one.

For the users who cares about price at most, I make a Today's Deal page. It has a filter bar based on the number of people. And this page has a wide range of food deals.

And the Deal block shows the foods in the deal with larger pictures, and I highlight the price of deal. The tag of price can tell people this is a real nice deal for (x number) of people to eat! And users can click the order button to order the foods quickly. The restaurant name is for memorizing, but I think pool people care about the price at most.