

CS 30700 - Team 19 - Product Backlog

Team Members

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Problem Statement

When students try to have meals on-campus or off-campus, there are often times when they face difficulties finding seats or eat by themselves. Foodie will help people establish connections and help people around campus who have the same preference of food or are eating alone to get together. We will provide information about on and off campus restaurants, real time users who can get connected, and recommendations based on students' preferences or tastes. This will provide new or current students necessary information that will aid them in choosing restaurants or dining courts as well as meeting new people. Also, students who find it difficult to go to restaurants that are far from their dormitories will be able to get there with ease by carpooling with other students who might be going to the same restaurant.

BackGround Info

Users:

Nowadays, people tend to be connected via internet. Students should be connected beyond their comfort zone to continuously interact with others. Before, rather than texting everyone you know to see their availability, users will just login to the application and see who is free at that time. While eating food, they will be able to start their conversation easily with the same topic, and keep them connected. Also, carpool will be encourage as people who would like to go to restaurants that are from off-campus as they find out that other people are going to that same restaurant.

Similar features:

Within the application we will be presenting some similar features within applications such as Yelp, Zomato, Let's eat and Snapchat. These services provide reviews and interaction with students in various ways. Yelp provides reviews about restaurants, Zomato provides filters by mood and discount coupons, and Let's eat allows students to make appointments for students. Snapchat allows us to add one another to our snapchat accounts through QR scan codes.

Limitation:

All of these services are useful, their limitation is that they do not know the current users online or are limited to school students. Our team believes that students should broaden their social connections beyond students within their major. Also, some of these features do not include options that would let us know the availability within the dining courts, which is specific to the university campus. Incoming students will know about restaurants and menus on and off

campus with different menus, while current students will be able to build a stronger relationship within the community.

Functional Requirements

- As a student, I would like to be able to connect with other people while having my meal
- As a user, I would like to be able to see the menus of nearby restaurants
- As a user, I would like to be able to get locations of restaurants around me
- As a user, I would like to be able to reserve a table at the restaurant
- As a user, I would like to be able to talk in a live chat room so that my questions can be answered quickly
- As a student, I would like to be able to get recommendations of food within various menus
- As a user, I would like to be able to introduce some secret menu on the restaurant
- As a student, I would like to be able to carpool with people who might be going to the same restaurants which are far from campus
- As a user, I would like to be able to know the total price of the meal including tax.
- As a user, I would like to be able to make comments on the foods I've eaten
- As a user, I would like to be able to read reviews for the restaurant
- As a user, I would like to be able to rate the restaurant
- As a student, I would like to be able to save my preference about the items I have from the restaurant.
- As a user, I would like to be able to pay with Apple Pay directly
- As a user, I would like to be able to get notifications about new menu items.
- As a user, I would like to be able to get notifications about any coupons.
- As a student, I would like to be able to split the bill with friends who go with me.
- As a student, I would like to be able to get notifications about promotions or events of restaurants
- As a student, I would like to be able to filter the restaurants around me.
- As a student, I would like to be able to get contact information of the restaurant
- As a student, I would like to be able to track the position of people who are coming to the dinner party
- As a student, I would like to be able to turn on and turn off the tracking service.
- As a student, I would like to be able to see other people's most recent activated time so that we can contact them.
- As a student, I would like to be able to track my monthly spending when I use the app to pay
- As a student, I would like to be able to get a series of data showing where I dine the most
- As a student, I would like to be able to have a feature that will prevent me from calling or texting when I'm drunk
- As a student, I would like to be able to see the restaurant's hours each day.
- As a student, I would like to be able to share my recent activity with my friends
- As a student, I would like to be able to share photos I took with people at a party

- As a student, I would like to be able to get real time feedback from people who are in certain restaurants (space, waiting time, etc...)
- As a student, I would like to be able to add people to my contact by just scanning their unique QR code.

Non-Functional Requirements

Architecture and Performance:

We are building an app that is based on an iOS platform by using Swift as the core programming language. We will be using the MVC structure. We expect the time for searching people around you to be finished in 5-10 seconds without the user specifying (and if they do, we can set the upper bound of it to around 30 seconds), and the time for login should be less than 5 seconds. We also expect the result of searching restaurant returns in less than 10 seconds. We will be mainly separating our app into two parts, the front-end, and the back-end. For the front-end, we will be using the auto-layout offered by Xcode, and also some of the icons that are free and provided by the various website. As for the back-end, we are planning to use firebase to create our user database, yelp's API for the restaurant information, and Google Maps' API for the location service.

Security:

Foodie's security is mainly dependent on the login as well as the tracking of a contact's location. We are planning to build a login system which can link accounts by using Facebook or Google accounts. On top of that, we are going to allow users to switch on or switch off their current locations whenever they'd like. If the user switches off his or her current location then the locations of friends or colleagues cannot be seen as well. We will also implement a series of tasks for the user to finish before they can access their phone when they are drunk. We will add the mechanism of checking the identity (such as checking the fingerprint before paying or accessing the app) just in case if someone robbed a phone from our user, which has already logged in their account.

Usability:

The interface should be easy for users to navigate through applications and be simple enough that users can understand. As there are various features within our application, it is important to know which tab offers what.

Hosting/Deployment:

Using firebase as a database, there should be continuous communication between the server. Also there should be another server for the number of people went into dining courts.