



Food Underutilization Optimization

README

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Introduction

Food insecurity is a common problem that a number of people struggle to deal with, and due to COVID-19, getting enough food may seem even more critical. FOU (Food Underutilization Optimization) is an app that strives to minimize the amount of unused and wasted food at grocery stores. What FOU does is create a universal online grocery catalog where users may search for items they need, add these items to a virtual shopping list, and use the coupons for those items when checking out in store. When the user is in the store, they may click to view the coupons for their items to scan them at checkout and get discounts for their purchase. By having easy access to coupons for foods, shoppers can buy discounted foods before they expire, thus reducing the amount of food that is thrown away and wasted due to expiration. FOU provides a way to make shopping for produce more accessible by allowing users to obtain food at a reduced price, while helping the problem of food waste by providing a way for grocers to sell otherwise unsellable food.

Login Credentials

There are two types of users: **customer users** and **business users**. **Customer users** are shoppers who are looking to shop for food items, while **business users** are representatives from business/store chains who are looking forward to selling their items at a discounted rate.

Customer Users:

1. Account with populated shopping list (primary):

- a. Username: [gary@ucsd.edu](#)
- b. Password: [gary123](#)
- c. For your reference, this customer user has the following delivery address:
[UCSD, La Jolla, CA 92093](#)

2. Account without populated shopping list (secondary):

- a. Username: [novicechef@yahoo.com](#)
- b. Password: [yummyyum](#)
- c. For your reference, this customer user has the following delivery address:
[3606 W 6th St, Los Angeles, CA 90020](#)

Business Users:

1. Account with populated store locations and listings (primary):

- a. Username: [bistrobora@ucsd.edu](#)
- b. Password: [abc110](#)

2. Account without populated store locations and listings (secondary):

- a. Username: [garysbakery@gmail.com](#)
- b. Password: [123g123](#)

Requirements

- Operating System: Windows 10 or the latest version of macOS
- Browser: Latest version of Google Chrome or any Chromium-based browser
- RAM: At least 8 GB RAM
- Screen Size: 13.3 inches or larger (running the web application on smaller screens is not fully supported at the moment)
- Screen Resolution: 1920x1080 or higher

Installation Instructions

No system installation is necessary if you are planning to use the web version of our application (the recommended way). Proceed to <https://corona-food.herokuapp.com/landing.html>

If you are looking to run our application on localhost (your local machine), please follow the installation instructions described in the following GitHub repositories:

Frontend: <https://github.com/MoonJiao123/corona-food-app>

Backend: <https://github.com/MoonJiao123/FUO-backend/>

How to Run

1. Proceed to <https://corona-food.herokuapp.com/landing.html> (use an HTTPS connection)
2. Click the **“Start Listing”** button.
3. Log in with the provided credentials on the previous page (the primary credentials are highly recommended), or sign up as a new business or customer user.

Known Issues

1. The application is not optimized for small screens yet (especially smartphones), meaning that the text, icon, and list formatings will not display correctly on those types of devices.
2. Please access our web application through HTTPS not HTTP, because HTTPS is more secure, and login information can be compromised through HTTP. If you access our web application through HTTP and attempt to log in, it will not work and shortly redirectly you to an HTTPS version of the login page.
3. For certain calls to the server, there are cases when a call returns a 500 Internal Server Error. In these cases, repeated calls of the same type will all be followed with this response. If this is the case, contact technical support.
4. The “geocoder” that we use for getting the validation of addresses may sometimes fail to recognize some valid addresses. It sometimes will return latitude and longitude values that may be less

accurate. The issue caused by the geocoder may sometimes cause the customer user to fail to register. To avoid unexpected failures, we suggest using “UCSD” as a valid test address.

5. On the FE, all links and fetches are directly to BE on Heroku. There will be no way of testing BE and FE locally completely. A local run of BE will require fetches to localhost:5000 since BE is using “localhost:5000” and FE is using “localhost:3000” locally.

Technical Support Contacts

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