

# Codepop User Manual



## Overview

CodePop is an application meant to be used by soda shop customers to order customized drinks from an automated soda shop run by a robot. Using this app enables a user to create an account, create their own customized drinks, save their drink preferences, use AI to generate drinks based on their preferences and order drinks from the soda shop.

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# Installation instructions

Note: If you have already run this app before on your device, skip to the bottom of this section where the “IMPORTANT” notice at the top of page 7, below the android studio picture.

Open two different tabs in your terminal

*Terminal 1:*

## 1. Install Dependencies

- Navigate to the base directory/file of the project and run the following command to create the virtual environment for the backend:

```
python -m venv codepop_virtual_enviroment
```

- The following command activates the virtual environment (Note: this must be run in either git bash or in a bash shell, i.e. mac terminal):

Windows command using git bash

```
source codepop_virtual_enviroment/Scripts/activate
```

Mac and Linux version

```
source codepop_virtual_enviroment/bin/activate
```

- Run the following command once the virtual environment has been activated to install dependencies

```
python -m pip install -r requirements.txt
```

- Run the following command to confirm you have the proper dependencies installed

```
python -m pip list
```

Your “pip list” output should look like the following

Package	Version
asgiref	3.8.1
certifi	2024.8.30
charset-normalizer	3.4.0
colorama	0.4.6
Django	5.1.2
django-cors-headers	4.4.0

djangorestframework	3.15.2
filelock	3.16.1
fsspec	2024.10.0
huggingface-hub	0.26.2
idna	3.10
Jinja2	3.1.4
joblib	1.4.2
MarkupSafe	3.0.2
mpmath	1.3.0
networkx	3.4.2
numpy	2.1.2
packaging	24.2
pandas	2.2.3
pip	22.2.1
psycopg2	2.9.9
python-dateutil	2.9.0.post0
pytz	2024.2
PyYAML	6.0.2
regex	2024.11.6
requests	2.32.3
safetensors	0.4.5
scikit-learn	1.5.2
scipy	1.14.1
sentencepiece	0.2.0
setuptools	63.2.0
six	1.16.0
sqlparse	0.5.1
stripe	11.2.0
sympy	1.13.1
threadpoolctl	3.5.0
tokenizers	0.20.3
torch	2.5.1
tqdm	4.67.0
transformers	4.46.2
typing_extensions	4.12.2
tzdata	2024.2
urllib3	2.2.3

- When you want to deactivate the virtual environment, run the following:  
`deactivate`

## 2. Download and Install PostgreSQL

- Download PostgreSQL from the following link: [PostgreSQL Downloads](#)

- Refer to the installation guide for PostgreSQL: [PostgreSQL Installation Guide](#)

**Important:** When installing PostgreSQL, use the following credentials:

Username: `postgres`

Password: `password`

### 3. Sign in to PostgreSQL

- After installation, sign in to PostgreSQL as your user by running:  
`psql -U postgres`

### 4. Create the Database

- The first time you run the app, you will need to create the database using the following command (do not change the database name):  
`CREATE DATABASE codepop_database;`

### 5. Install Stripe

Windows:

`pip install stripe`

### 6. Run Migrations, Populate Database and Start the Server

- Navigate to the `codepop_backend` directory that contains the `manage.py` file

`cd codepop_backend`

- Run the following script. This will populate the database with some pre-created drinks and users:

`./clean_database.sh`

- Before running the server, you need to get your IP Address. This is necessary for the Android emulator to access the backend. You can find your ip address by using the `ipconfig` command in the terminal, then find the following:

Wireless LAN adapter Wi-Fi:

Connection-specific DNS Suffix . :

Link-local IPv6 Address . . . . : \_\_\_\_\_

IPv4 Address . . . . . : <YOUR IP ADDRESS>

- Run the following commands to start the server:

```
python manage.py makemigrations
```

```
python manage.py migrate
```

```
python manage.py runserver <YOUR IP ADDRESS>:8000
```

- Note:** Each time you run the server, you will need to provide your IP address.

#### *Terminal 2:*

- Navigate to the base directory/file of the project

#### 1. Install Node.js

- Download and install Node.js from the official website: [Node.js Downloads](#)

#### 2. Install Android Studio

- Download and install Android Studio, then set up a virtual Android device: [Android Studio Downloads](#)

#### 3. Install Stripe Library for React Native

```
npm install react@18.2.0
```

```
npm install @stripe/stripe-react-native
```

#### 4. Start the React Native App

- Navigate to the codepop directory

```
cd codepop
```

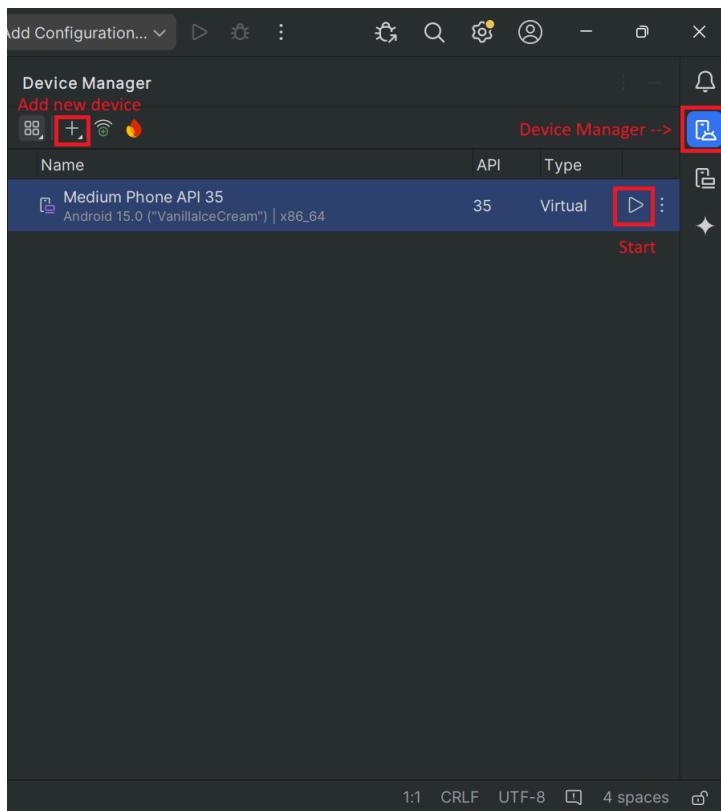
- Edit the BASE\_URL variable in `ip_address.js` to match your IP address and port.

```
const BASE_URL = 'http://<YOUR IP ADDRESS>:8000'; // Your backend URL
```

- Install dependencies by running the following command:  
`npm install`
- Open android studio and start an emulator.
  - On the right side of the screen, click the “Device Manager” icon
  - Click the start button on the phone to the right of the “Type” header
    - If there is no phone, you may need to add a new device

Make sure that the device is “Medium Phone API 35 – Android 15.0 (“VanillalceCream”) | x86\_64”

(See picture below)



- Once the emulator is done loading and open, run the following command in the terminal to start the app:

`npm run android`

You should now see a terminal displaying logs from the backend and an Android emulator with the app running!

**IMPORTANT:** Now that everything is installed, any time you use the app from now on you can just follow these instructions:

Open two different tabs in your terminal

*Terminal 1:*

- Go into codepop\_backend directory

```
cd codepop_backend
```

- Then, run the following:

```
python manage.py migrate
```

```
python manage.py runserver <YOUR IP ADDRESS:8000>
```

Start an android studio emulator (see page 5 step 4)

*Terminal 2:*

- In the base directory, start a virtual environment

```
python -m venv codepop_virtual_enviroment
```

Windows command using git bash:

```
source codepop_virtual_enviroment/Scripts/activate
```

Mac and Linux version:

```
source codepop_virtual_enviroment/bin/activate
```

- Go into the codepop directory

```
cd codepop
```

- Then, run the following

```
npm install
```

```
npm run android
```

# Getting started

## Welcome to the CodePop App!

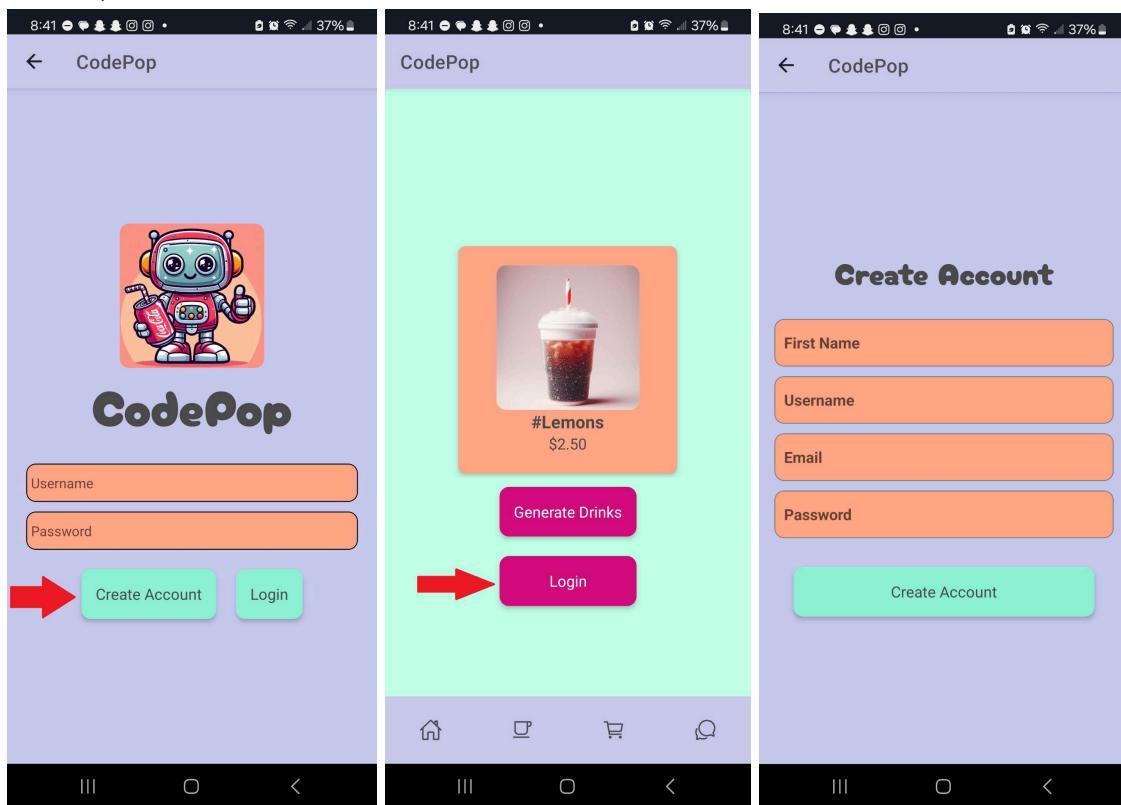
Your one-stop destination for creating, and enjoying your perfect soda combinations. This guide will help you get started and familiarize you with the app's key features.

### 1. Make sure you have the app downloaded.

- If the app is not available to you on your device or on android studios visit the installation instructions portion of this guide.

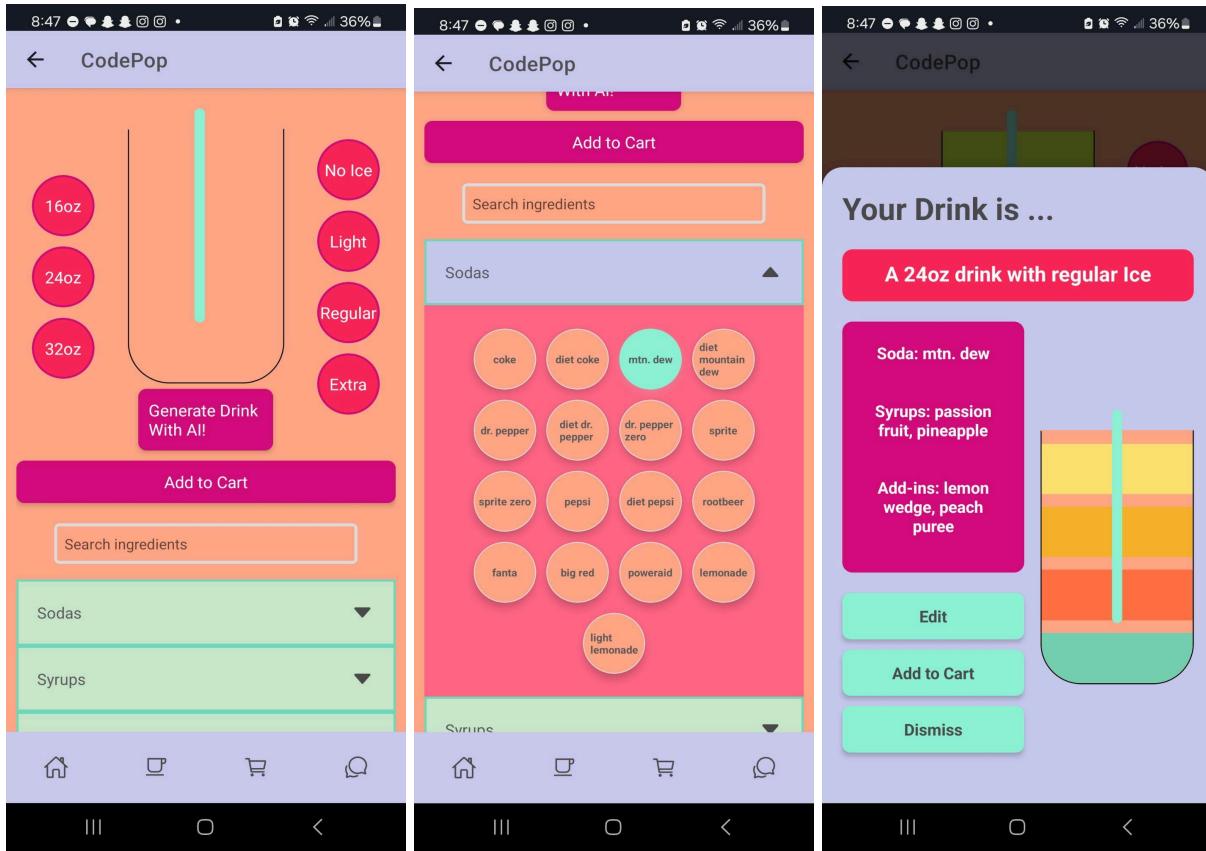
### 2. Creating an Account

- Open the app and select the **Login** button. After that you can choose to either login with an existing account or create a new account.
- If you are a new user, follow the on-screen prompt to set up your profile.



### 3. How to Navigate

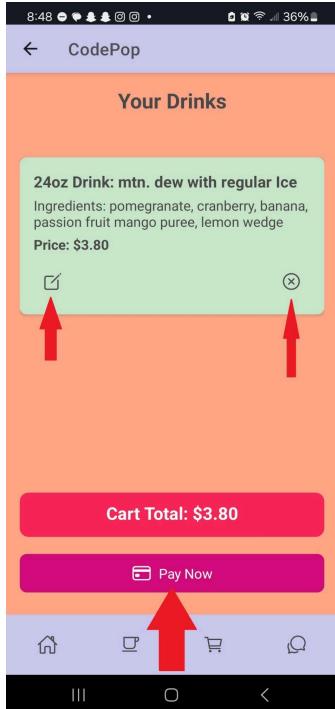
- The app features a user-friendly **navigation bar** that gives you access to the following
  - Home Page**
    - The home page gives you the options to either Login/Logout or Generate a Drink
  - Create Drink Page**
    - To have the AI generate you a drink press **Generate Drink With AI!** And to create your own drink simply select what you would like in your drink and select **Add to Cart**



- When a drink is generated with AI the screen above should appear. You can either edit your drink, add to cart, or dismiss and either create your own drink or have the AI generate you a new drink.

### iii. Cart Page

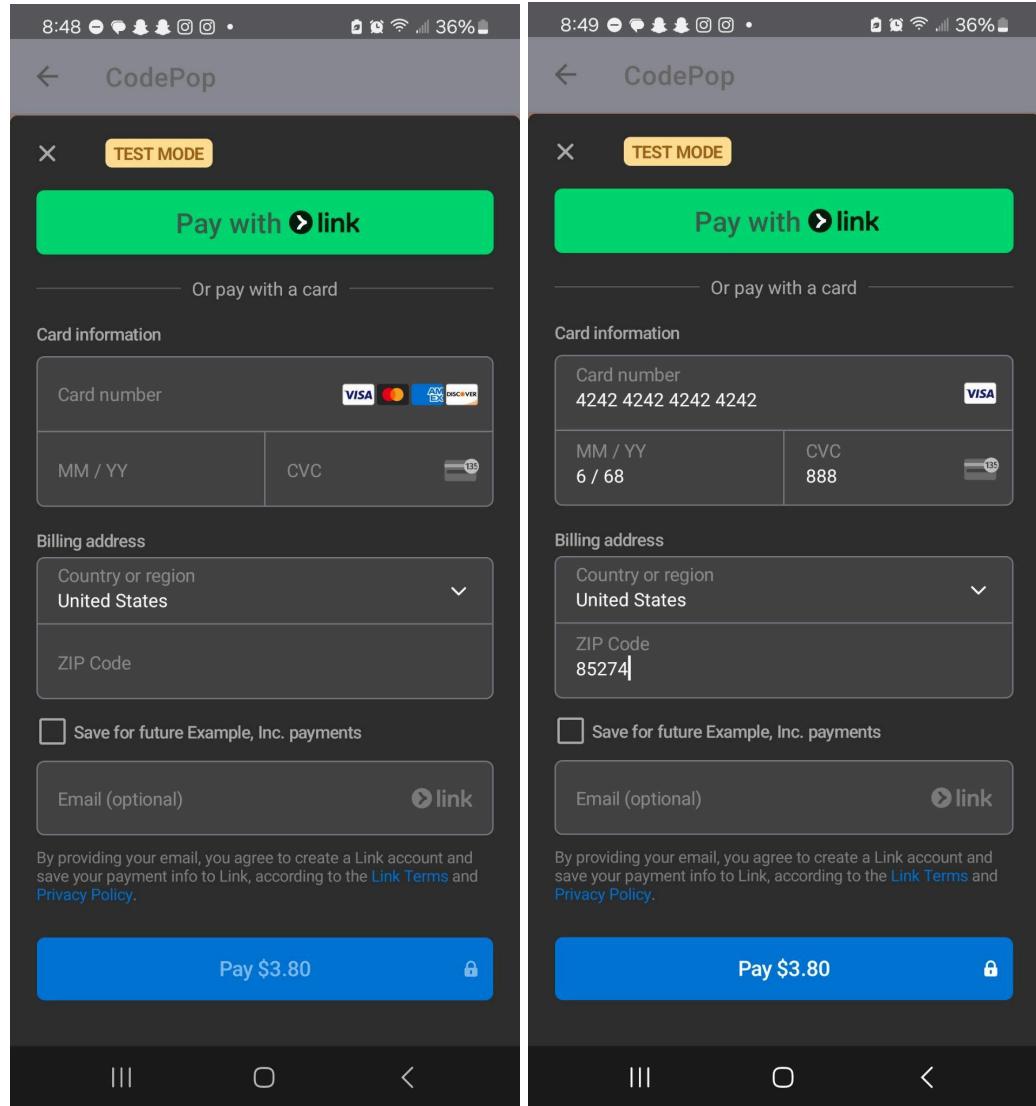
- To view your drinks visit the Cart Page by simply pressing the cart icon in the navbar.



2. Once at the cart page you can either **Edit** your drinks, **Delete** your drinks, or **Checkout**.
  - a. To **edit** your drink select the notepad and pen on the left of the drink
  - b. To **delete** your drink select the X on the right
  - c. To **checkout** select the Pay Now button

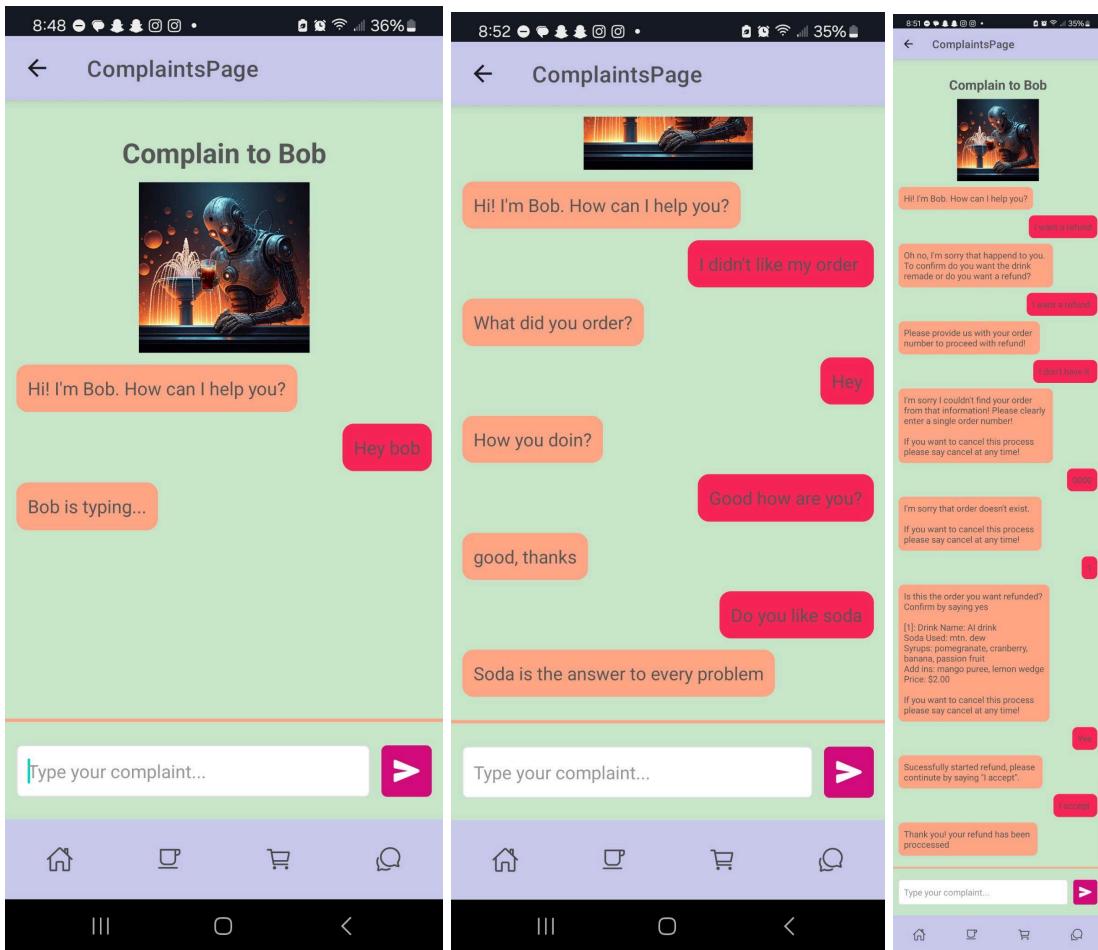
#### iv. Checkout Page

1. One gets to the Checkout Page after selecting Pay Now one the Cart Page.
  - a. To complete a checkout one must simply follow the on screen instructions and fill out their credit card. If using on test mode follow the card info on the right image.



#### 4. Customer Service Chat

- Need help? Ask Bob! Just follow the navbar and click on the far left chat bubbles. This will open the chat window where you can ask bob for anything.



## Features and functions

### AI Drink Generation

- Do you want a computer to tell you what's good to drink? This is the feature for you. We use a state of the art AI model to give you delicious recommendations.
- Begin by opening the app the to home page (which looks like the following and can also be accessed through the highlighted button)



- To generate an AI drink press the Generate Drinks button



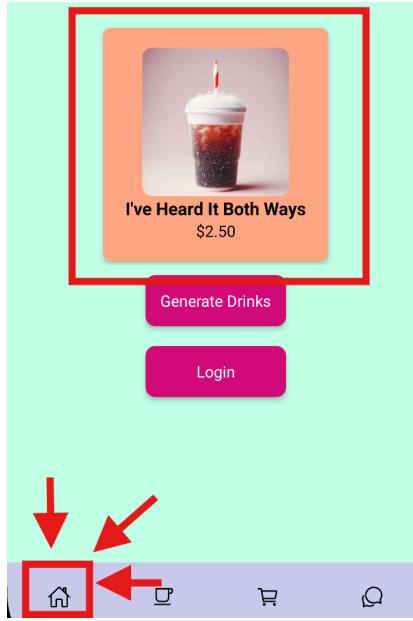
- This will make the following pop up appear.



- There are 3 options for you to choose from
  - Edit: this will take you to a page that lets you edit the contents of the drink.
  - Add to Cart: If you like how this drink looks you can add it straight to the cart.
  - Dismiss: If you don't like it and don't want to edit it you can dismiss the pop up by clicking this button.

## Ordering Drinks

- There are three types of drinks you can order
- Premade
  - You see the seasonal premade drink in the rotating carousel located on the home page. Highlighted in the picture below along with the button to get to the home page.



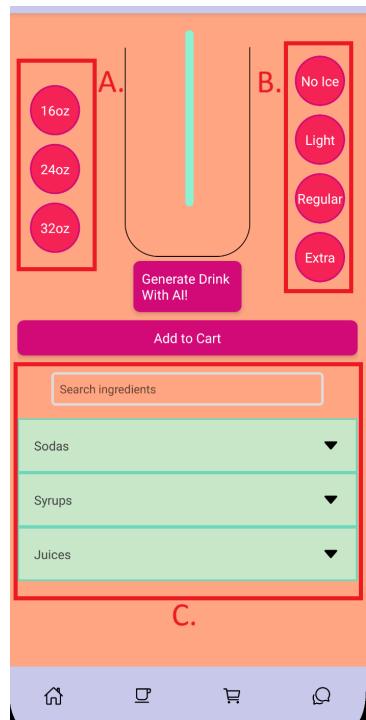
- To order a premade drink simply tap on the drink you want and it will automatically add it to the cart and take you to the cart page.
- Instructions on how to finish the order using the cart page will follow later in this section.

- Custom

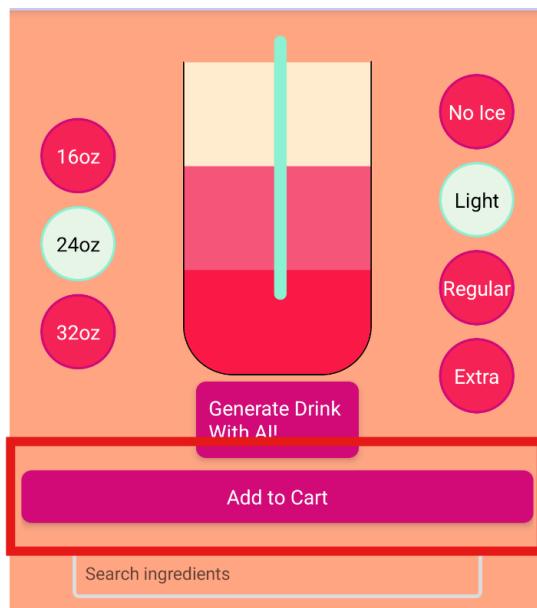
- Begin by navigating to the create drink page.



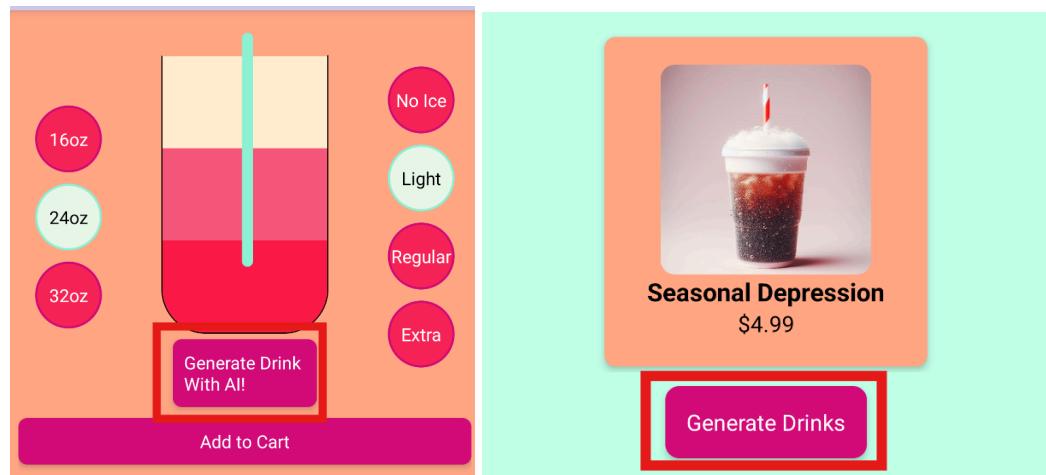
- This page looks like the following



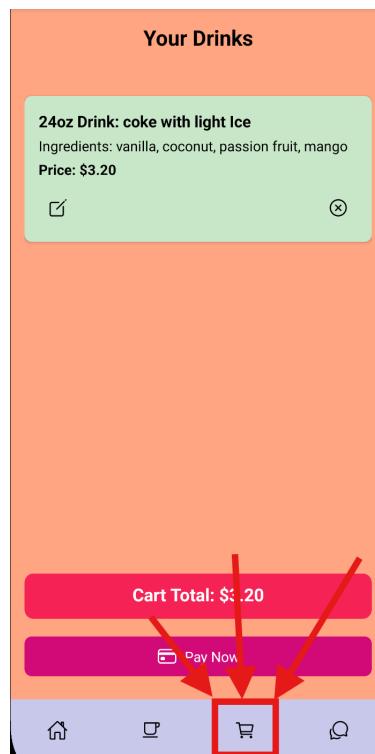
- The different parts are labeled to talk about in more depth.
  - A: This selects what size drink you want
  - B: This is your Ice preference
  - C: Each of these contain drop down that have soda types, Syrups and Juices to be added to your drink. You can add as many of these as you want. You can also search for the ingredients you want using the search bar.
- Once you have selected the drink you want you can add it to your cart by pressing the add to cart button shown below.



- AI generated
  - You can generate an AI created drink using the two buttons shown below

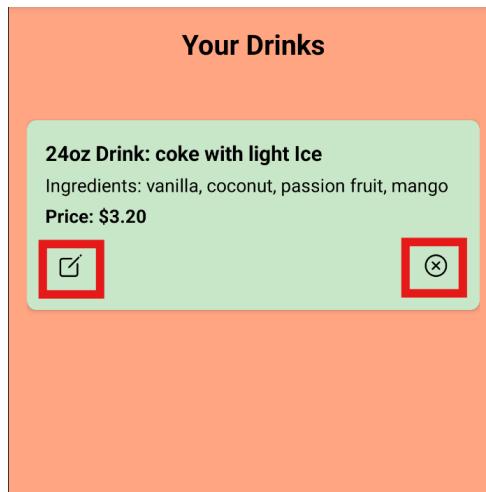


- Refer to the AI drink generation section above for more information about how this works
- How to checkout
  - Once you have added drinks to your cart it will appear as shown which can be accessed through the button highlighted in the screenshot.

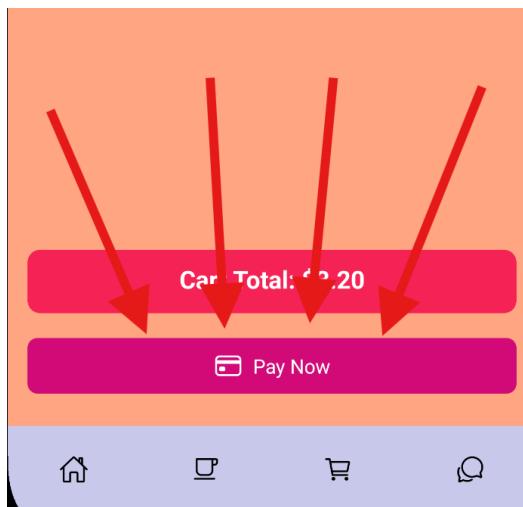


- To remove a drink from your cart press the x button on the drink(highlighted below).

- To edit a drink previously added to cart press the edit button on the drink (highlighted below).



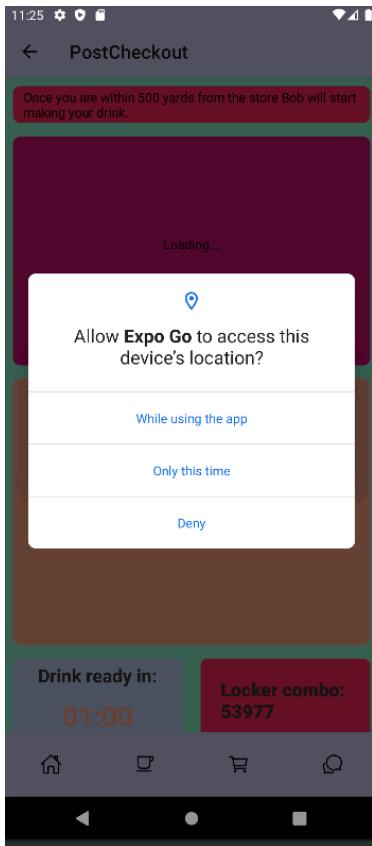
- Once you are ready to checkout press the pay now button



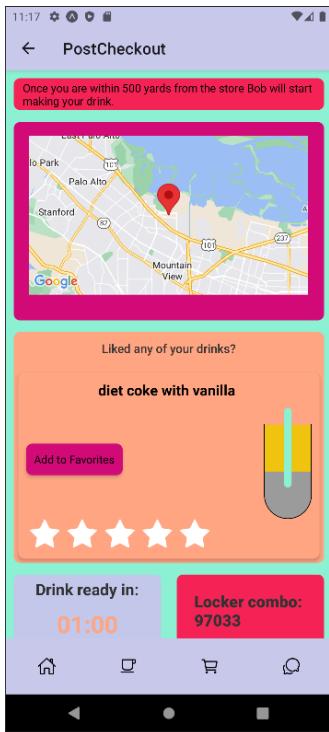
- This will provide you with a payment form to fill out. Once completed your order will be placed

## Picking Up Drinks

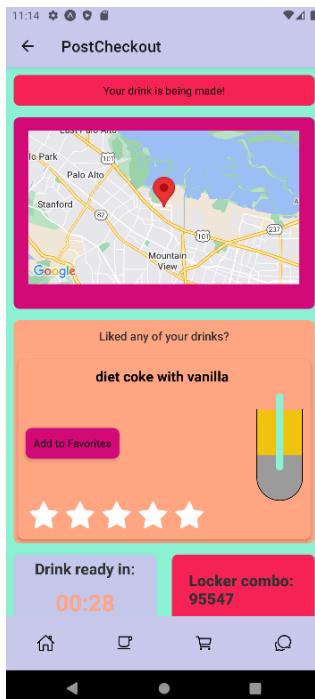
- Once your order has been placed you will automatically be sent to the post checkout page. You will be asked if you would like to share your location so that the bots know when to start creating your drinks



- If you don't allow that, you will see an "I'm here" button to notify the bots you are ready instead of the geolocation tracking. If you do allow location sharing, you will see the full post checkout page as listed below
- You will see a map with your soda location
- You will see a timer that tells you how long you have before your drink is ready
- You will also see a locker combo you will use to pick up your drink.



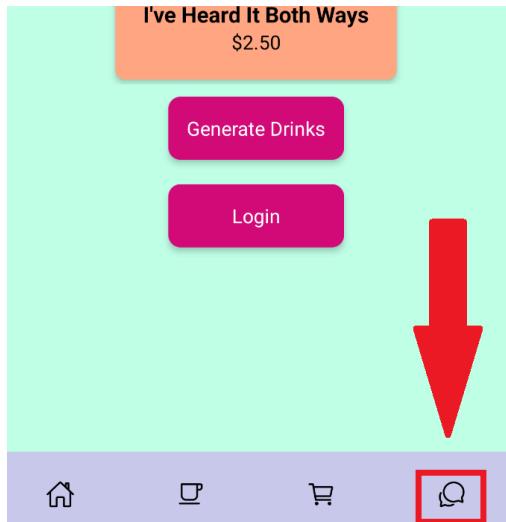
- Once you are within 500 yards of the location, the bots start creating your drink and the countdown begins. This is shown in the image below



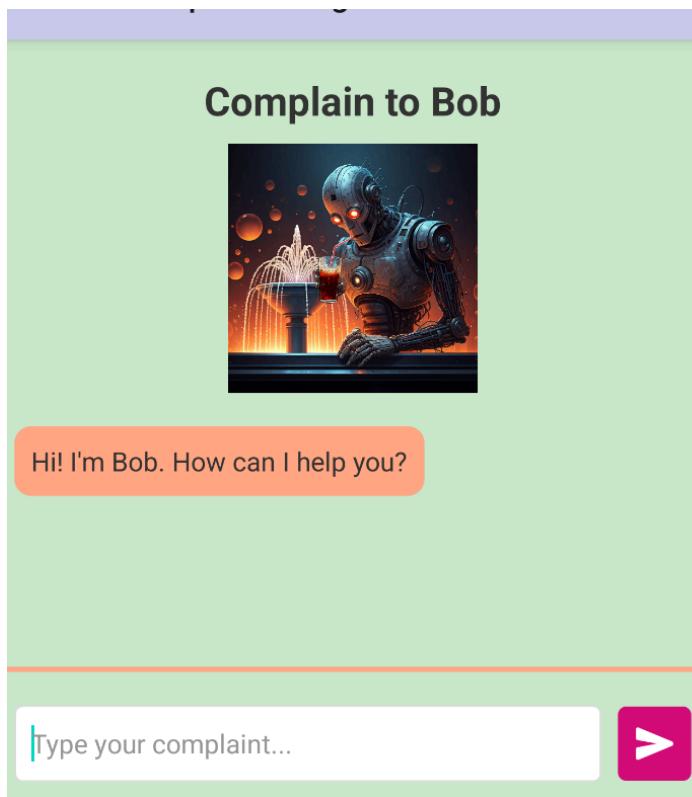
- Once you arrive at our soda location you will walk in and enter your locker number to retrieve your soda

## Remade Drinks/ Refunds

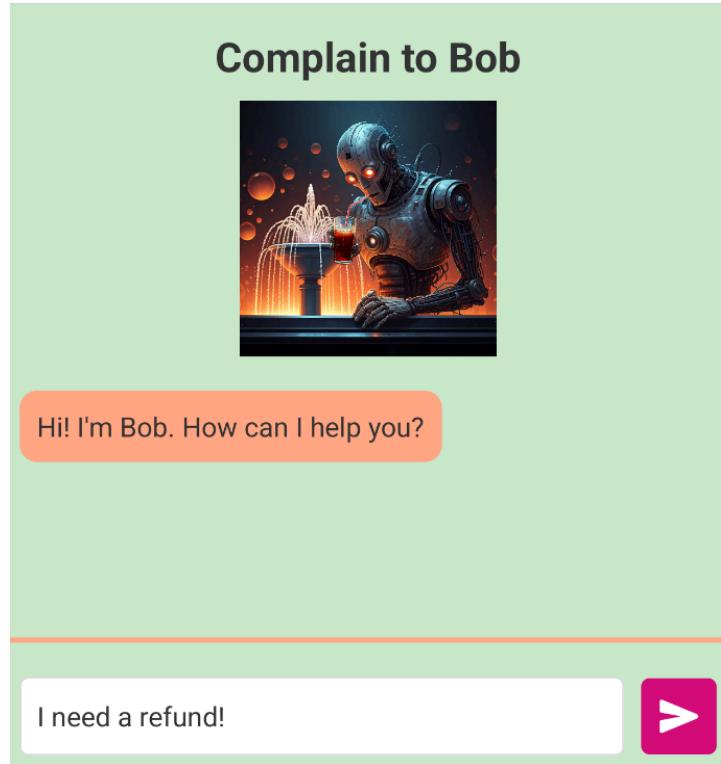
- Order Refund
  - Navigate to complaints page



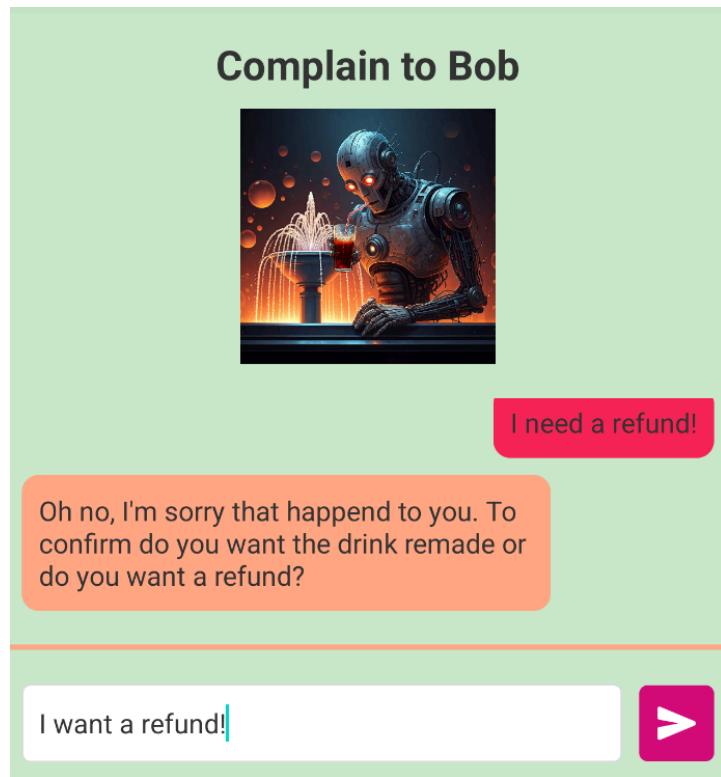
- All customer service interactions are run through our AI Bob.



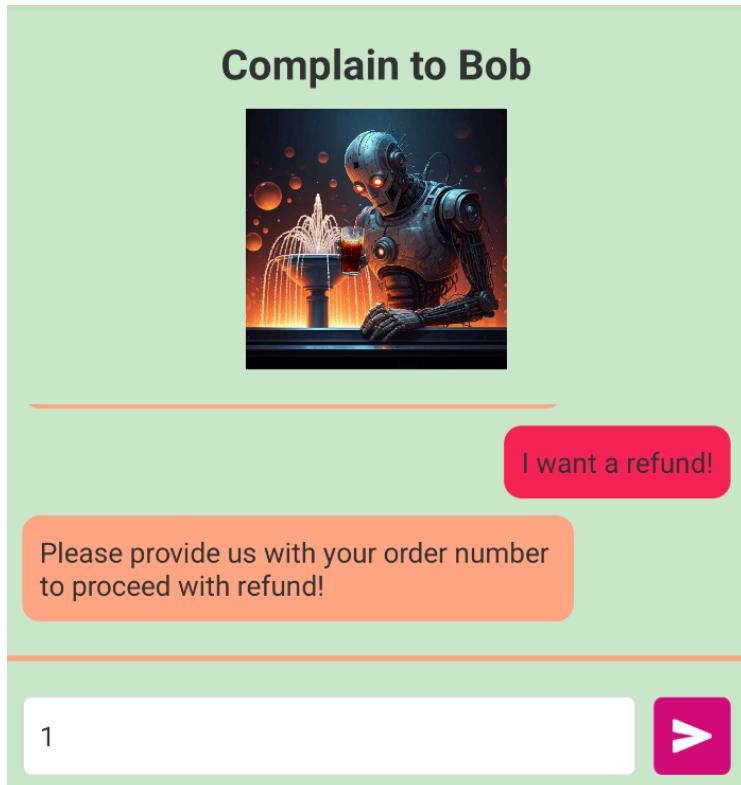
- To request a refund simply tell Bob you need a refund for an order



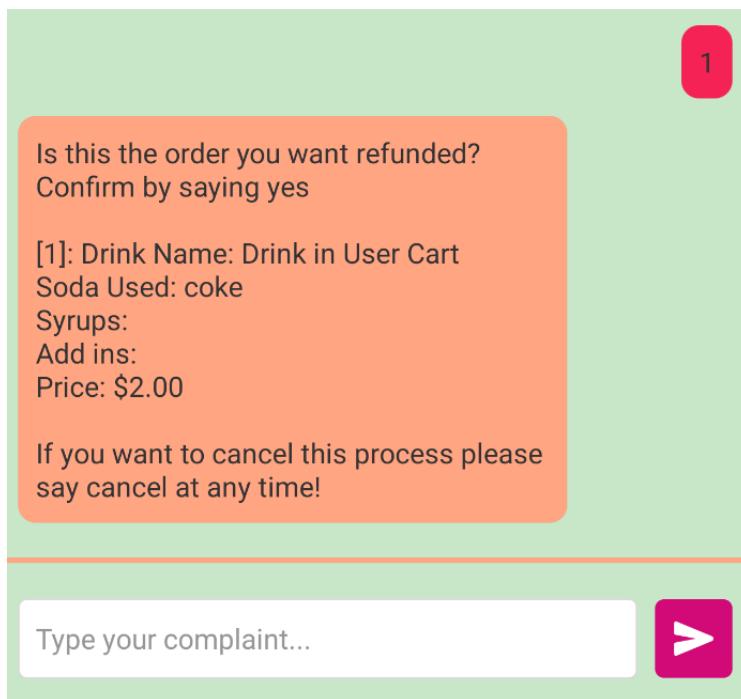
- Bob will ask you to confirm that you want a refund, confirm by saying you want a refund



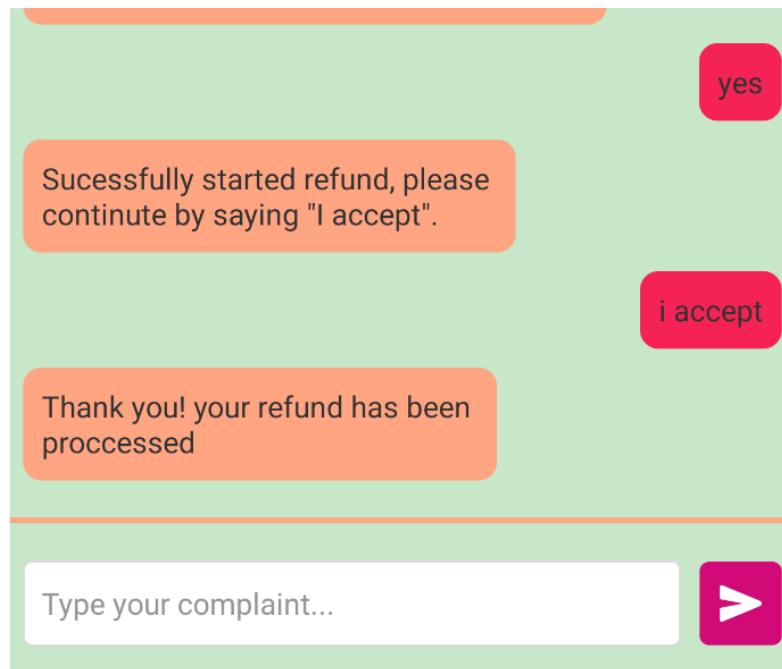
- Next Bob will ask you for the order number you would like a refund for.



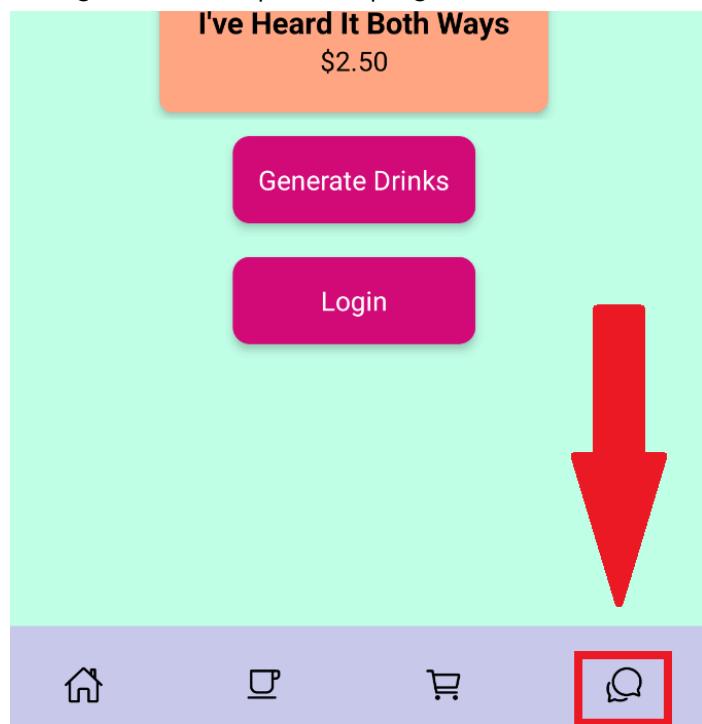
- Once provided with an order number Bob will look up the order and provide the details of the order so you can confirm that it's the correct order.



- Confirm that the order is correct by saying yes.
- Bob will ask you to accept the refund by saying I accept.
- Finally you will receive confirmation that your refund was processed.



- Remake Drinks
  - Navigate to complaints page



- All customer service interactions are run through our AI Bob.

## Complain to Bob



Hi! I'm Bob. How can I help you?

Type your complaint...



- To remake a drink simply tell Bob you need a drink remade.

## Complain to Bob

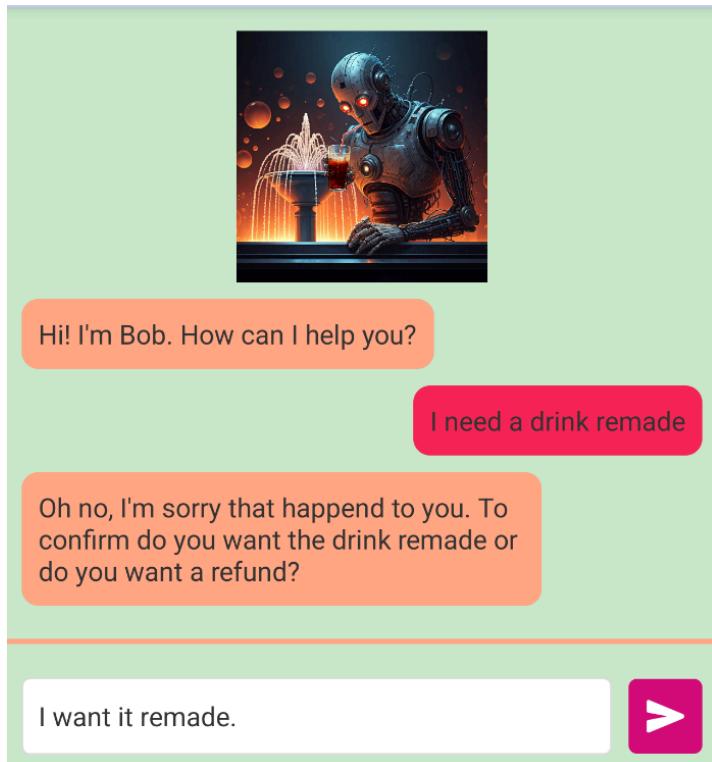


Hi! I'm Bob. How can I help you?

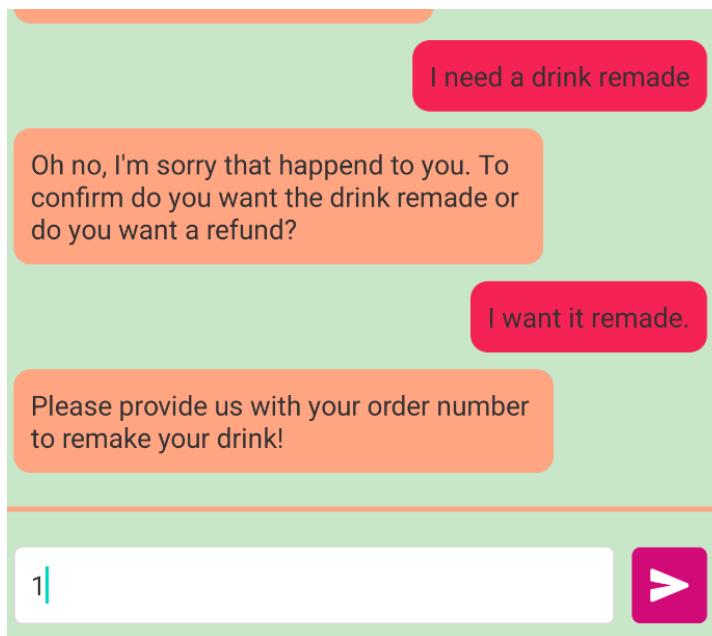
I need a drink remade



- Bob will ask you to confirm that you want a drink remade. To which you will confirm that you want a drink remade.



- Bob will then ask you for the order number with the drink that was made wrong (you can find this in your receipt)



- Once provided with an order Bob will look up an order and provide a list of drinks within the order.

We found your order! Please tell us which drink(s) we can remake for you?  
if you want all drinks remade say "all"

[1]: Drink Name: Drink in User Cart  
Soda Used: coke  
Syrups:  
Add ins:  
Price: \$2.00

If you want to cancel this process please say cancel at any time!

Type your complaint...



- Bob also asks you what drink you need remade. Respond with the number next to the drink in the list Bob provides to you.
- Bob will then confirm that the number entered is a valid option and ask you to say I accept to confirm that you want the drink to be remade.

[1]: Drink Name: Drink in User Cart  
Soda Used: coke  
Syrups:  
Add ins:  
Price: \$2.00

If you want to cancel this process please say cancel at any time!

1

Sucessfully started remaking drinks, please continue by saying "I accept".

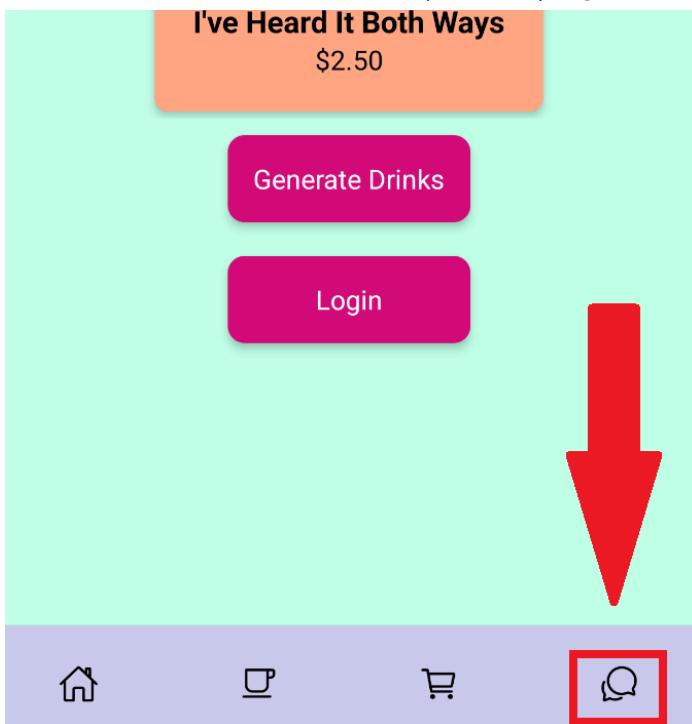
Type your complaint...



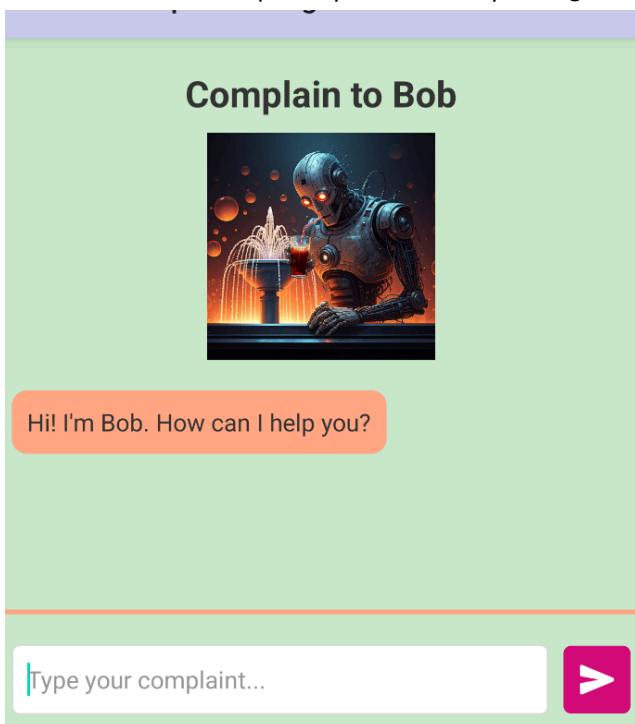
- After this you will be redirected to the Order Pickup screen which will provide you with details about the status of your order.

## Complaints

- Most complaints can be directed to our AI assistant Bob!
- He can be found in the complaints page as shown below.



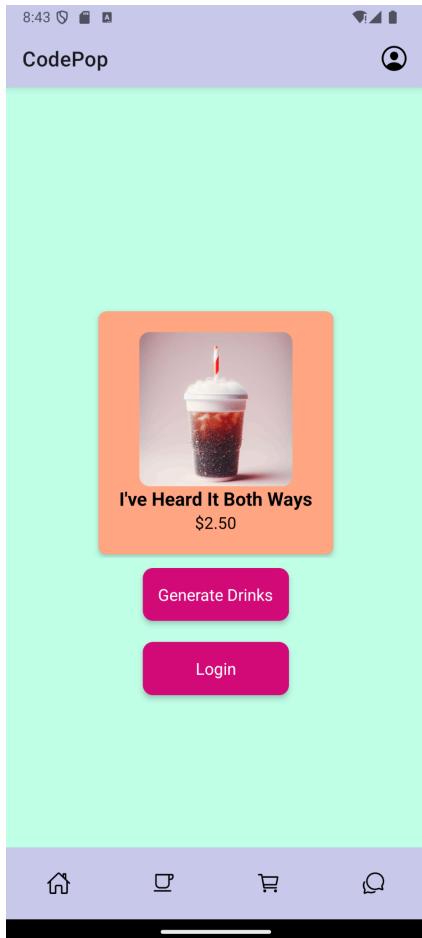
- You can ask him pretty much anything!



- If you have important complaints that Bob can't answer please reach out using the contact information below!

## Creating An Account

- Navigate to the home page
  - If you have just opened the app, you are already here



- Press the “Login” button
- Press the “Create Account” button

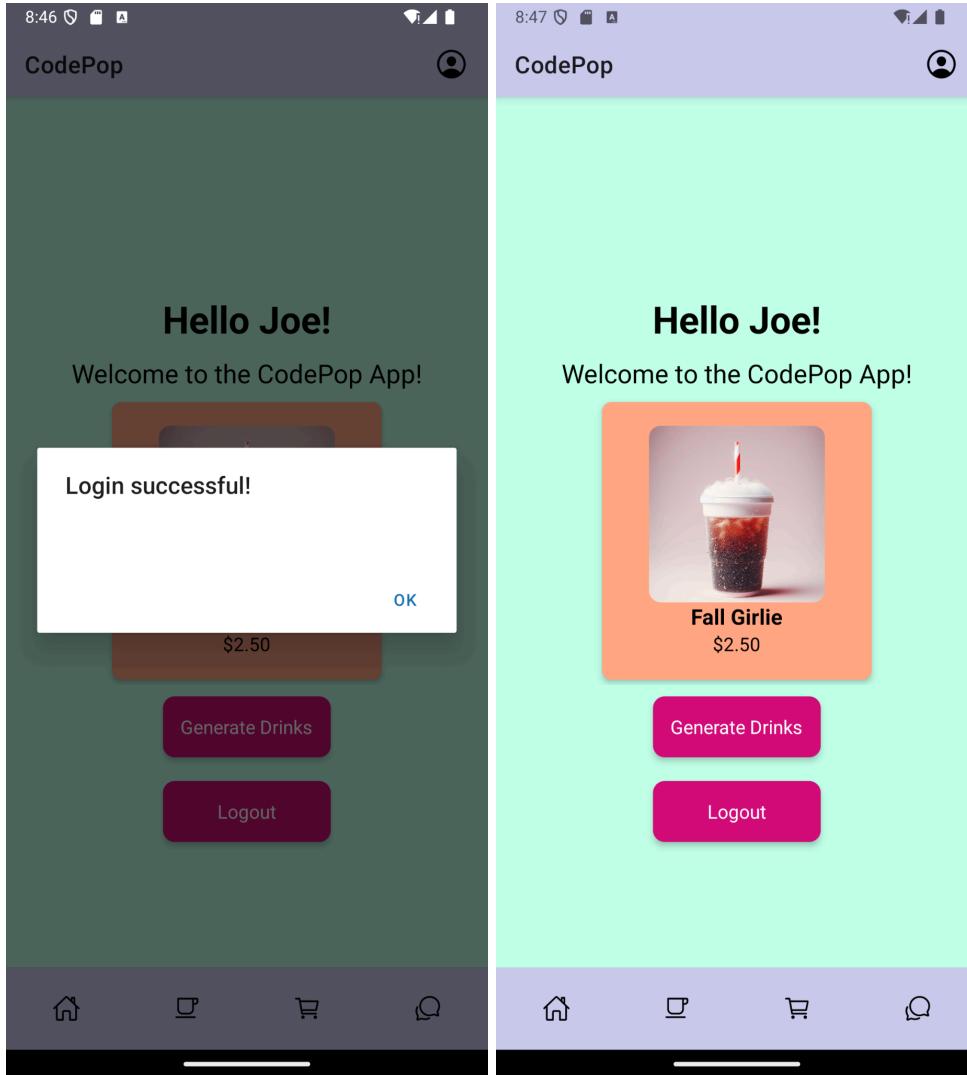


- Enter your name, username, email, and password



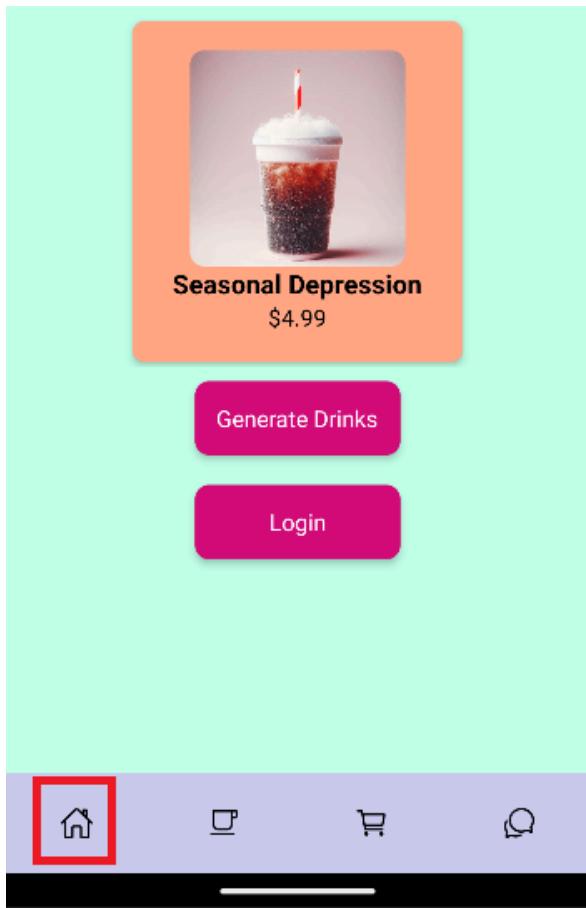
- Select "Create Account"

- You will be navigated to the Login page
- Login with your newly created account username and password
- A message will show that you have logged in successfully, and your name will show on the home screen.



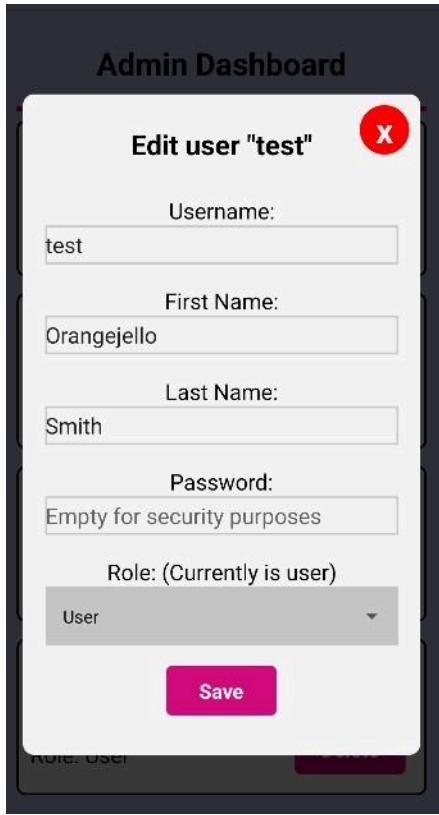
### Admin Dashboard (for admin eyes only!)

- Ensure you are logged out and navigate to the Home page
  - (see below for an image of the home page, and the navigation icon boxed in red. Note that the drink displayed may be different)



- From the home page, click “Login”
- Enter your admin username (“super”) and admin password (“password”), then login
  - You should get a “Login Successful!” notification
  - You should automatically get redirected from the login page to the Admin Dashboard
- The admin dashboard will give you a list of every Codepop user account. The list will update any time you refresh the dashboard or perform operations. There are two main operations admins can perform:
  - Delete a user: Deletes user from the database
  - Edit a user: Can edit the following multiple times:
    - Username
    - First name
    - Last name
    - Password (will not be explicitly shown for security purposes)
    - Role (User, Staff, Admin)

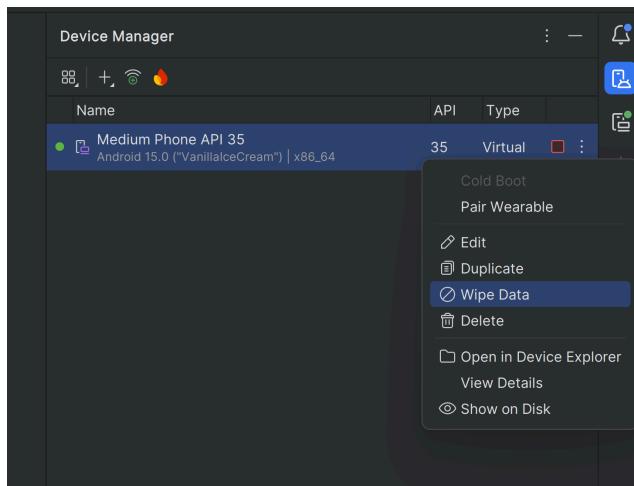
Note that a user’s edits will only get implemented once the “Save” button in the edit popup is clicked. “X” will exit out without saving.



## Troubleshooting

### Logout Failed

- If the emulator will not let you log out of your account, the best solution is to wipe the emulator's data. Note that wiping the emulator should not affect any of your account data.
  - To wipe the data go to Device manager, select the three dot dropdown on the desired emulator and select Wipe data.



- If using the Expo Go app clear your cache in settings

## Forgot Password

- If you forget your password contact the admin to reset.

## Network Communication Error

- If you get a Network Communication Error check that you have the right IP address for the backend command and in the front end ip\_address.js file.

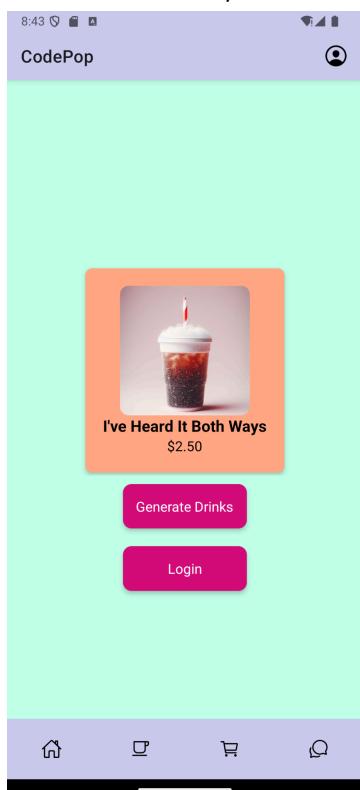
## Wrong Version of Expo Go

- Our application has yet to be updated with the newest version of ExpoGo follow this link to install the correct version
- <https://expo.dev/go?sdkVersion=51&platform=android&device=true>

## FAQs - Use cases

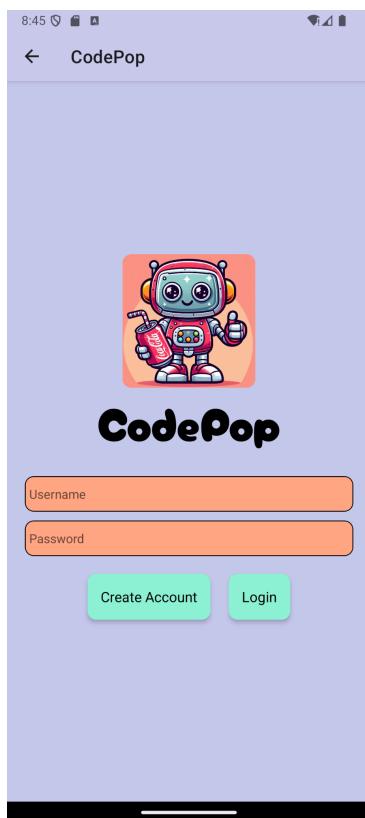
### Create a new customer account and set up a profile

- Navigate to the home page
  - If you have just opened the app, you are already here



- Press the "Login" button

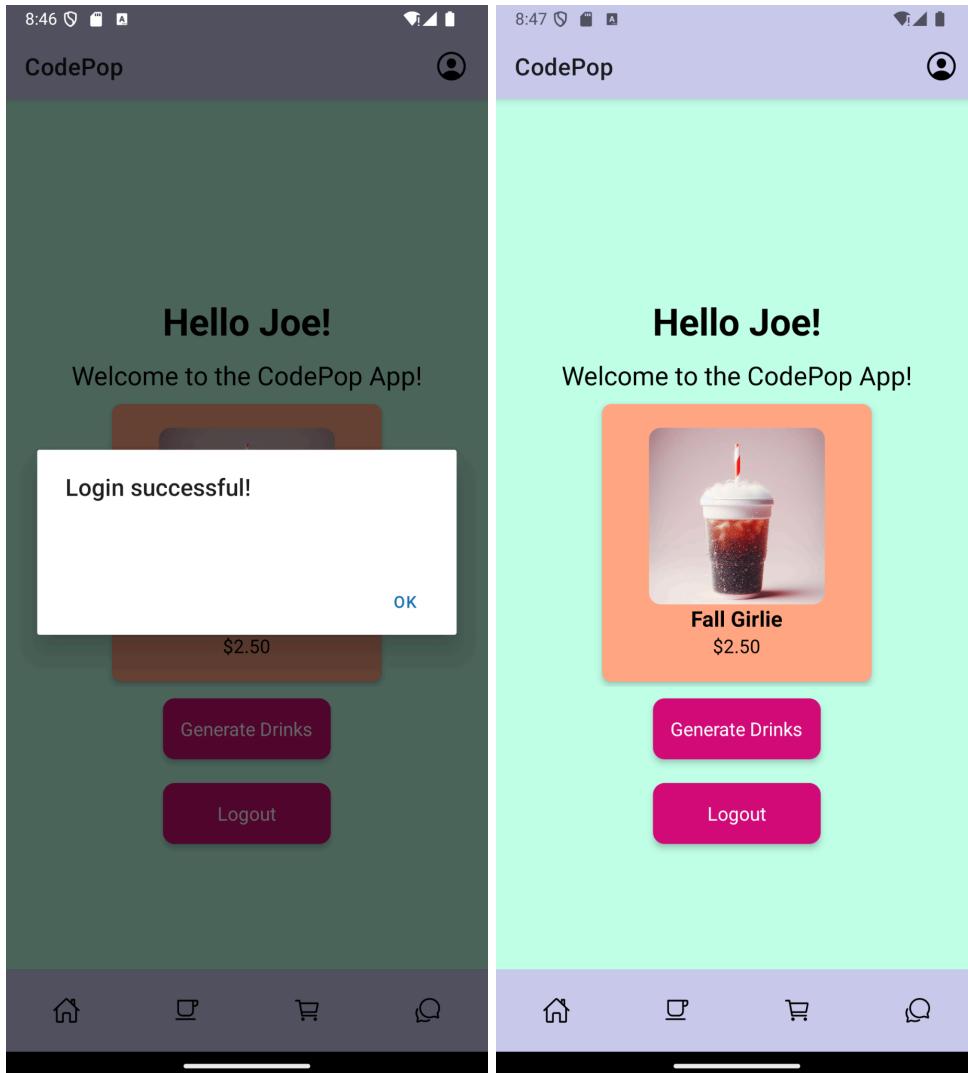
- Press the “Create Account” button



- Enter your name, username, email, and password

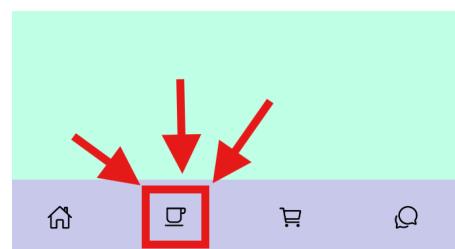


- Select “Create Account”
- You will be navigated to the Login page
- Login with your newly created account username and password
- A message will show that you have logged in successfully, and your name will show on the home screen.

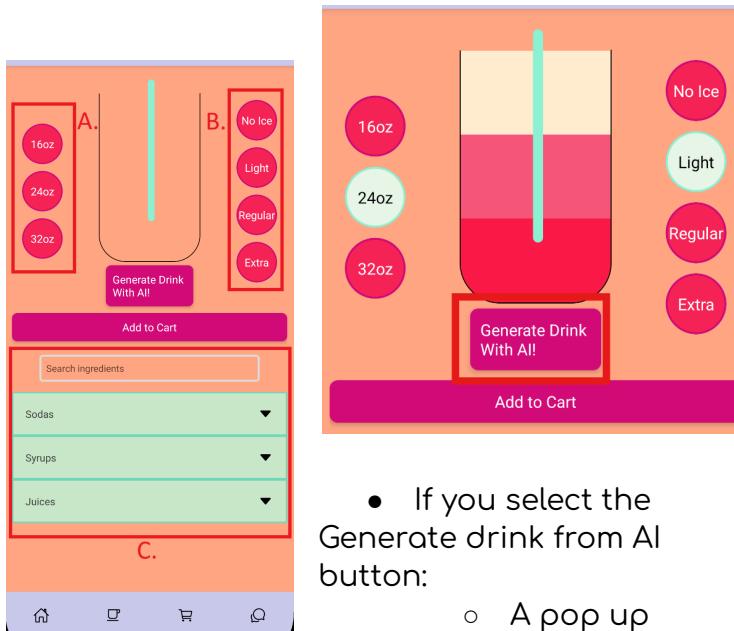


Order a pre-mixed drink from a list of AI-generated options

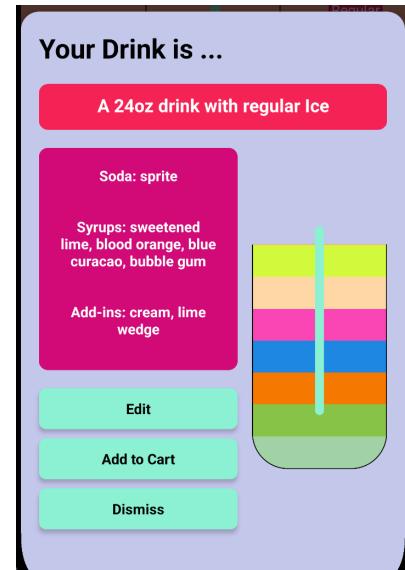
- Navigate to the create drinks page by clicking on the drink icon in the nav-bar located at the bottom of the screen or the Generate Drinks button on the Home page.



- Either add ingredients from the drop down menus to create your own drink or click the “Generate drink from AI” button



- If you select the Generate drink from AI button:
  - A pop up screen will appear with several options
    - If you like the drink as it is, click the “add to cart” which will take you to the cart page where you can see your generated drink as a cart item.
    - If you don't like the drink, click the “dismiss” button to close the window and click the button to try again or create your own drink
    - If you like the drink but want to edit it, click the “edit” button. This will add the drink to the cart and take you to the update drink page where you can edit the drink.
- If you choose to create your own drink:
  - Select ingredients from the drop down menu or search ingredients in the search bar.
  - Make sure you select an ice amount and drink size from the buttons on either side of the drink GIF and choose at least one soda option
  - Once your drink is just the way you want it, click the “add to cart” button. You will then be taken to the car page where you can see all the drinks you have added to the cart.
- From the cart page,
  - If you want to get rid of a drink in the cart, click the X button on the drink item you wish to get rid of.





- If you want to edit a drink item in your cart, click the edit button on the drink you wish to edit

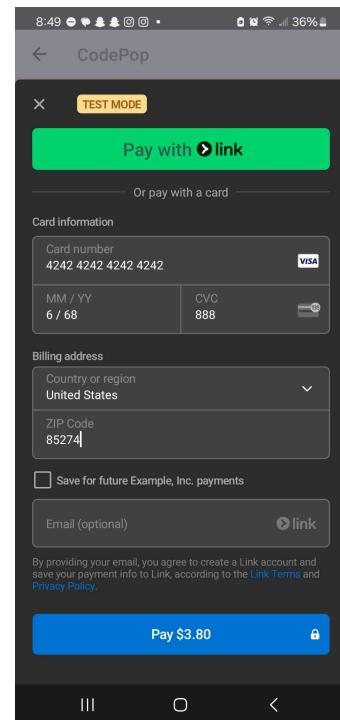
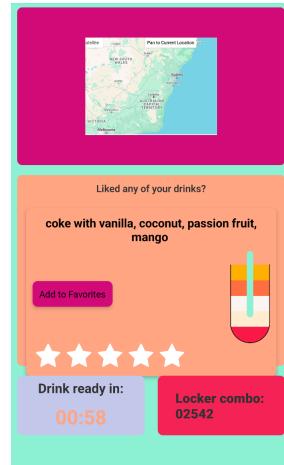
■ This will take you to the edit drink page where you can edit your ingredient selections and click the “Update” button to add the updated drink back to the cart.

- When you are satisfied with your drink order:
  - Click the “pay now” button
  - A Stripe payment window should appear where you can enter the following test payment information:

- Card number: 4242 4242 4242 4242
- Expiration date: 6/68
- CVC: 888
- ZIP Code: 85274

- Click the “Pay \$” button at the bottom of the window.

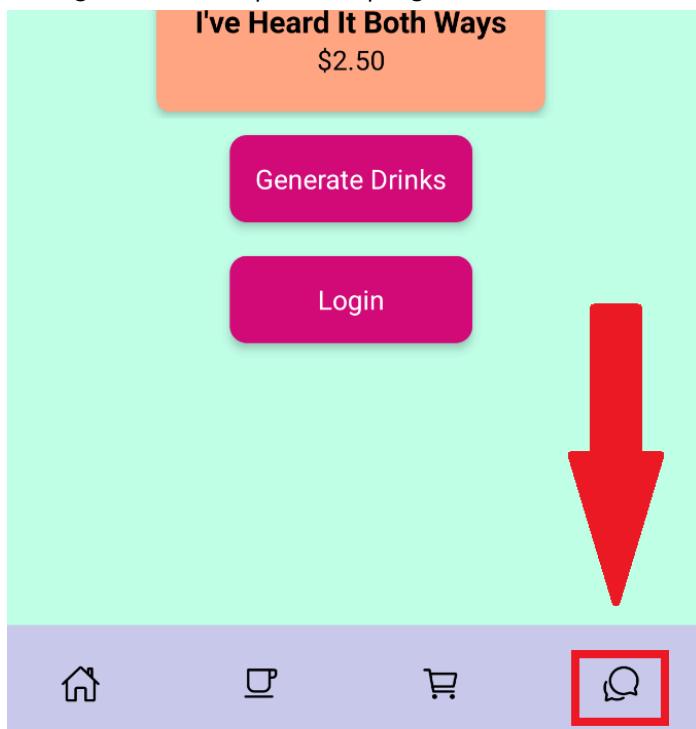
- Your drink order is confirmed once you see the Post checkout page which includes your geolocation, a carousel that displays your drinks with options to rate them and add them to preferences, a locker combo, and a timer until your drink is made.



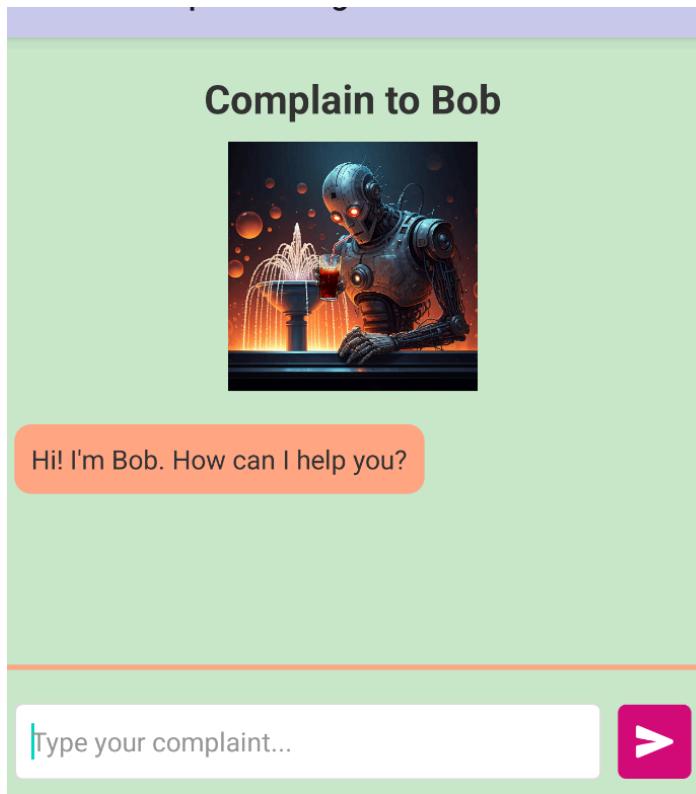
## Request a refund on a bad drink

- Order Refund

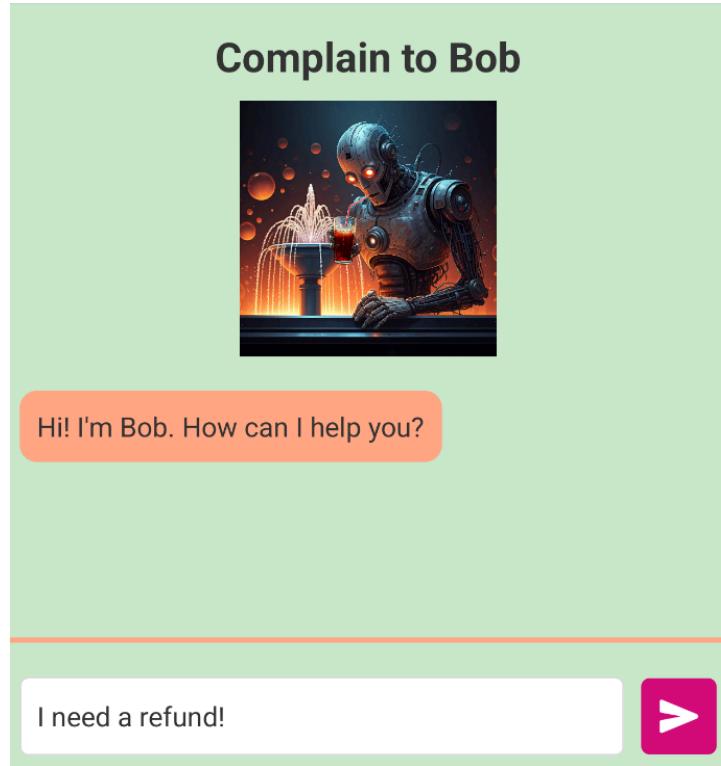
- Navigate to complaints page



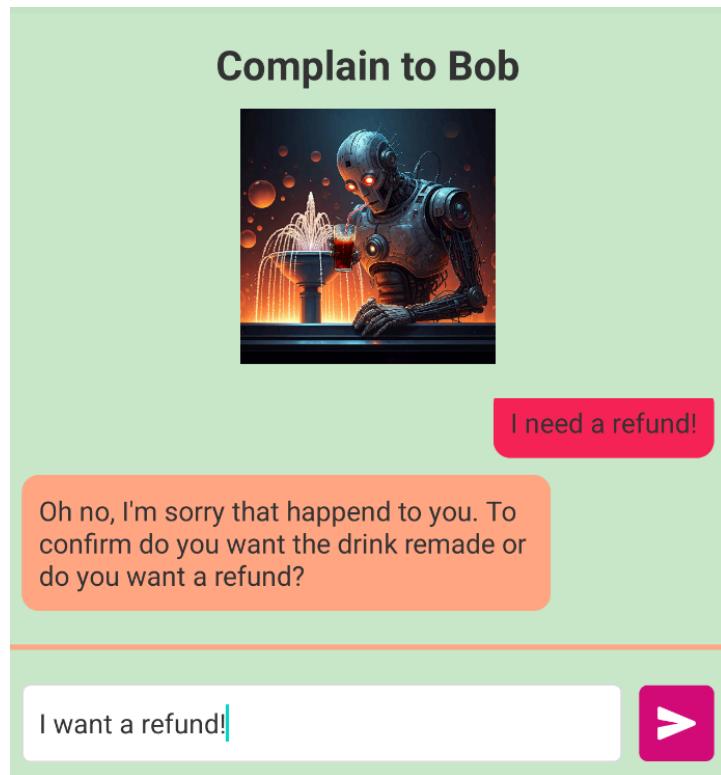
- All customer service interactions are run through our AI Bob.



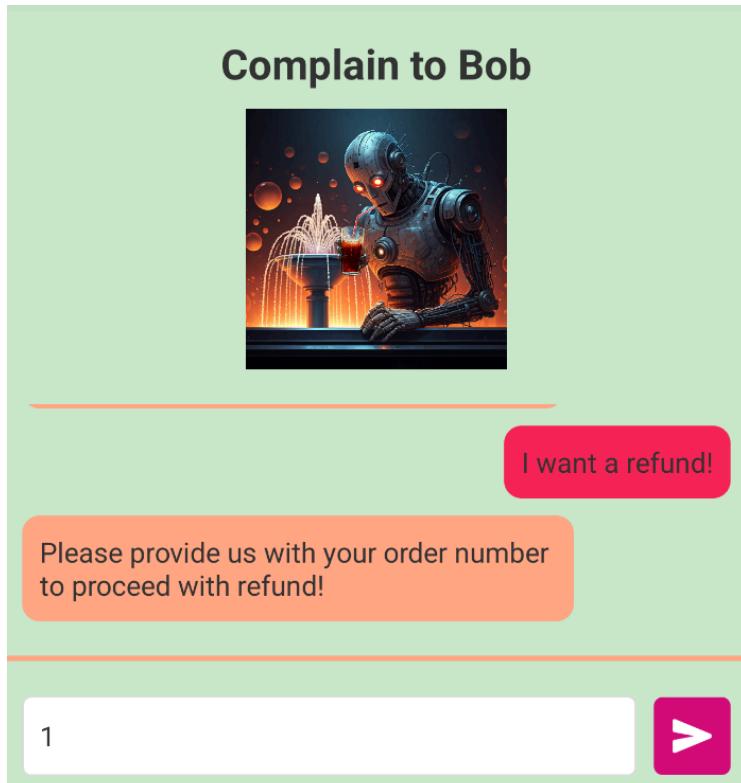
- To request a refund simply tell Bob you need a refund for an order



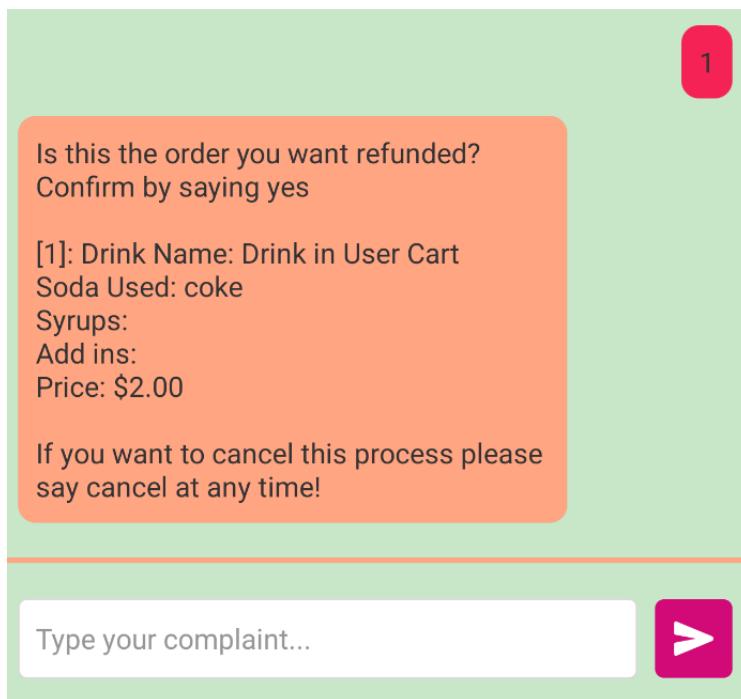
- Bob will ask you to confirm that you want a refund, confirm by saying you want a refund



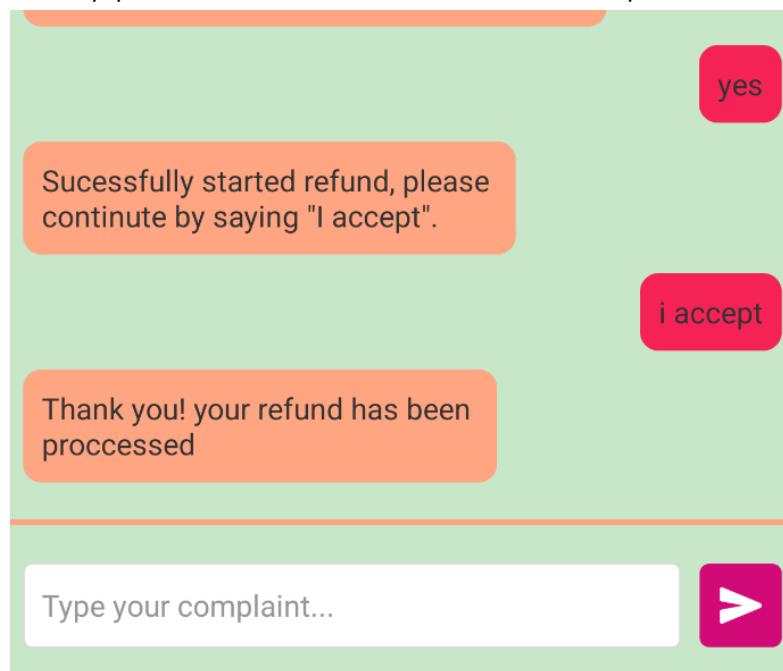
- Next Bob will ask you for the order number you would like a refund for.



- Once provided with an order number Bob will look up the order and provide the details of the order so you can confirm that it's the correct order.

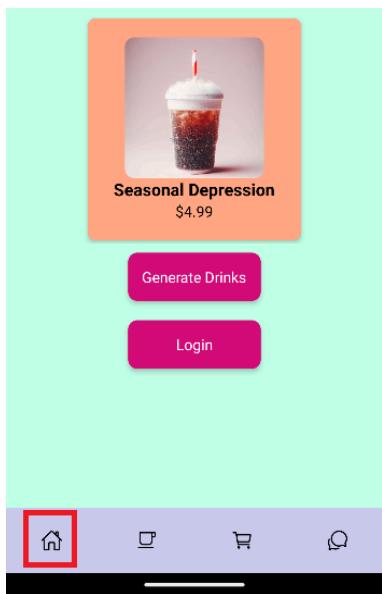


- Confirm that the order is correct by saying yes.
- Bob will ask you to accept the refund by saying I accept.
- Finally you will receive confirmation that your refund was processed.



## View the admin dashboard

- Ensure you are logged out and navigate to the Home page
  - (see below for an image of the home page, and the navigation icon boxed in red. Note that the drink displayed may be different)



- From the home page, click “Login”
- Enter the admin username (“super”) and admin password (“password”), then login
  - You should get a “Login Successful!” notification
- You should automatically get redirected from the login page to the Admin Dashboard! You can delete and edit users while on this page.

## Contact information

For questions ask Bob:

[bob@codepop.com](mailto:bob@codepop.com)

808-507-3909 (Note: please do not actually call this)