

ZAD زاد

CCSW-225 Human Computer Interaction Course Project

2024



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1. Project Title & Overarching Idea

- An application aimed at collecting surplus food from restaurants, events, and parties, and distributing it to those in need for free.
- The project aims to reduce food waste and contribute to improving the living conditions of individuals in need.

2. Target Users

- **Needy Individuals:** Individuals and families facing economic difficulties who require food support.
- **Restaurants and Events:** Restaurants and event organizers who wish to donate surplus food instead of disposing of it.
- **Charitable Organizations:** Charities that can act as intermediaries in distributing food to those in need.

3. The problems

- **Food Waste:** Utilizing the amounts of food that are wasted daily in restaurants and events.
- **Food Insecurity:** Providing free food to individuals and families suffering from food shortages.

4. Data Collection

- We can use online surveys or conduct interviews with those in need to understand their food requirements and opinions on receiving surplus food.
- Data can also be collected from restaurants and organizations that wish to participate.

5. Finding users

- **Collaboration with Charitable Organizations:** Communicating with charities and humanitarian institutions that work with those in need.
- **Engaging with Restaurants:** Convincing restaurants to donate surplus food by raising awareness about the importance of reducing food waste and helping the community.

6. Survey questions

Survey for Individuals in Need:

1. What type of food do you need the most?

- Ready meals
- Healthy meals
- Beverages
- Sweets and baked goods

2. What features would you like the app to provide?

- Pre-booking food feature
- Map showing nearby distribution points
- Food and service rating feature
- Reminder for food pick-up or delivery times

3. How do you prefer to receive food?

- Home delivery
- Pick-up from a distribution center
- Both

4. What is the best time for you to receive food?

- Morning
- Afternoon
- Evening
- No preference

5. Do you have any allergies to the following foods?

- Nut allergy
- Fish allergy
- Wheat allergy
- No allergies
- Other

6. What could be improved in the food distribution service you receive?

- Improve food quality
- Increase food variety
- Improve food quantity
- Improve the delivery method (e.g., packaging or delivery)
- Other (please specify)

Survey for Restaurants and Charitable Organizations:

1. What motivates you to donate surplus food?

- Helping those in need
- Reducing food waste
- Enhancing brand image

2. How often do you have surplus food that can be donated?

- Daily
- Several times a week
- Weekly
- Monthly

3. What challenges do you face when donating surplus food?

- Timing (difficulty in finding the right time to donate)
- Transportation and distribution
- Organization and coordination with charities
- Other (please specify)

4. What could make the donation process easier for you?

- Providing appropriate transportation
- Better coordination with charitable organizations
- Flexible scheduling system for donations
- Other (please specify)

5. Would you like to receive notifications or reports on how your donations are distributed?

- Yes
- No
- Maybe

6. What features would you like to see in the app to facilitate the donation process?

- Flexible scheduling system
- Detailed reports on donations
- Improved communication with recipients
- Other (please specify)

7. Do you think there are ways to encourage more restaurants to join the food donation initiative?

- Yes, through awareness campaigns
- Yes, through tax incentives
- Yes, through financial or non-financial rewards
- No, I believe the idea itself is sufficient

8. What are your expectations from participating in the food donation initiative?

- Enhancing brand image
- Connecting with the local community
- Achieving corporate social responsibility goals
- Contributing to reducing food waste

9. Do you prefer scheduling donations in advance or providing them on demand?

- Scheduled in advance
- On-demand donation
- Both

7. Survey links :

<https://docs.google.com/forms/d/e/1FAIpQLSfIF3akSKemjsxVQCpS3ATj1MUEgjzsQ.g5lv-WEXquJCgWOyg/viewform>

<https://docs.google.com/forms/d/e/1FAIpQLSfIF3akSKemjsxVQCpS3ATj1MUEgjzsQ.g5lv-WEXquJCgWOyg/viewform>

8. Raw data

Survey 1 (For individuals in need):

- Most needed food type: Most participants prefer ready meals, followed by healthy meals and beverages.
- Preferred app features: The most requested features were the ability to pre-book food and a map showing nearby distribution points.
- Preferred method of receiving food: There was a strong preference for home delivery, though a notable number of participants also preferred picking up food from a distribution center.
- Preferred time for food pick-up: The majority of participants prefer receiving food in the morning or afternoon.
- Food allergies: Some participants reported allergies to nuts or fish, indicating the need to provide information about food ingredients.
- Food quality rating: Most participants rated the quality of the food they received as "Good," but there were requests to improve both quality and variety.
- Areas for improvement in food distribution: The most requested improvements were in the variety and quantity of food provided.

Survey 2 (For restaurants and charitable organizations):

- Motivation to donate: The majority of restaurants and organizations donated surplus food to support those in need and reduce food waste.
- Challenges in donating: The main challenges identified were related to timing, transportation, and coordination with charities.
- What would make donating easier: Providing suitable transportation and better coordination with charitable organizations were the top priorities for making the donation process easier.
- App features needed: A flexible scheduling system and detailed reports on donations were the most requested features to improve the donation process.
- How to encourage more restaurants to join the initiative: Awareness campaigns and tax incentives were seen as effective ways to encourage more restaurants to participate.

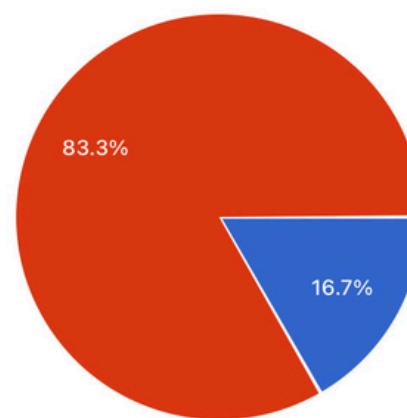
Visualization of Survey 1: (For Individuals in Need)

1. What type of food do you need the most? ما نوع الطعام الذي تحتاجه بشكل أكبر؟

6 responses



وجبات جاهزة - Ready meals
وجبات صحية - Healthy meals
مشروبات - Beverages
حلويات ومخبوزات - Sweets and baked goods



2. What features would you like the app to provide? ما هي الميزات التي ترغب في أن يوفرها التطبيق؟

6 responses

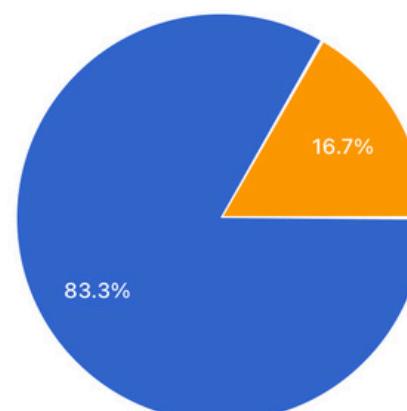


3. How do you prefer to receive food? كيف تفضل استلام الطعام؟

6 responses



التوسيbil إلى المنزل - Home delivery
الا... Pick-up from a distribution center -
كلاهما - Both

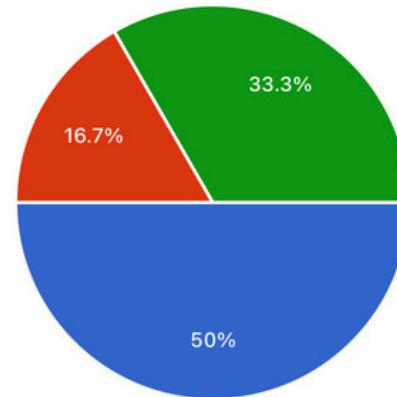


ما هو الوقت الأفضل لاستلام الطعام؟

6 responses

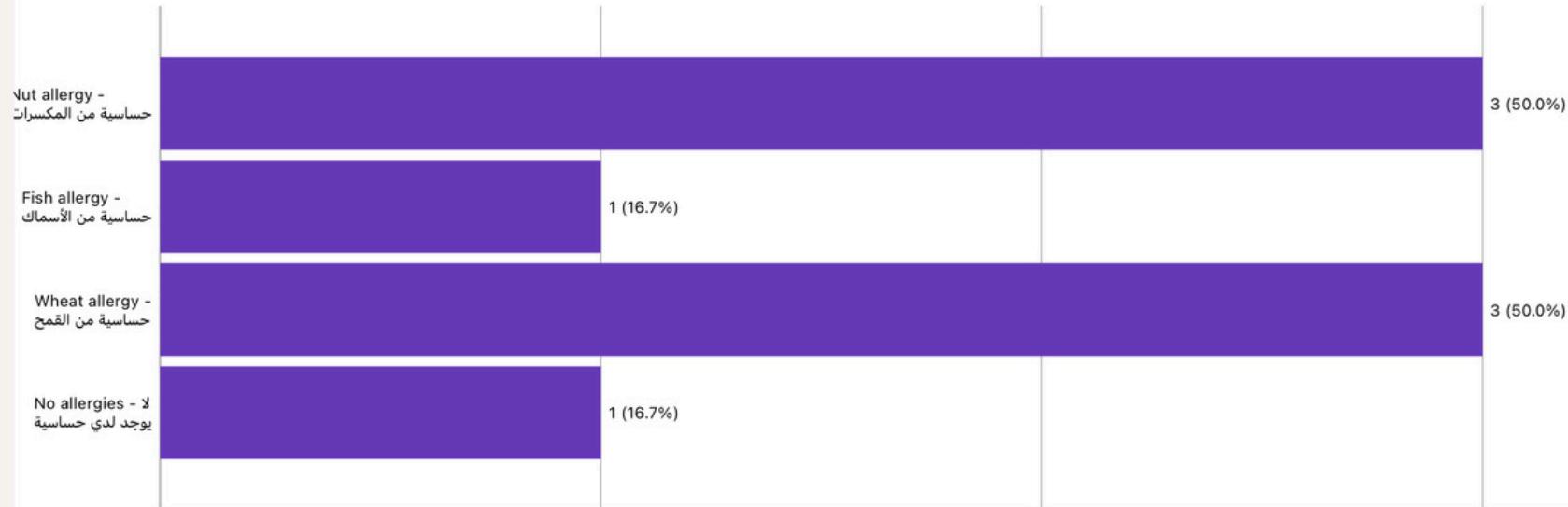


صباحاً - Morning
ظهراً - Afternoon
مساءً - Evening
لا يوجد تفضيل - No preference



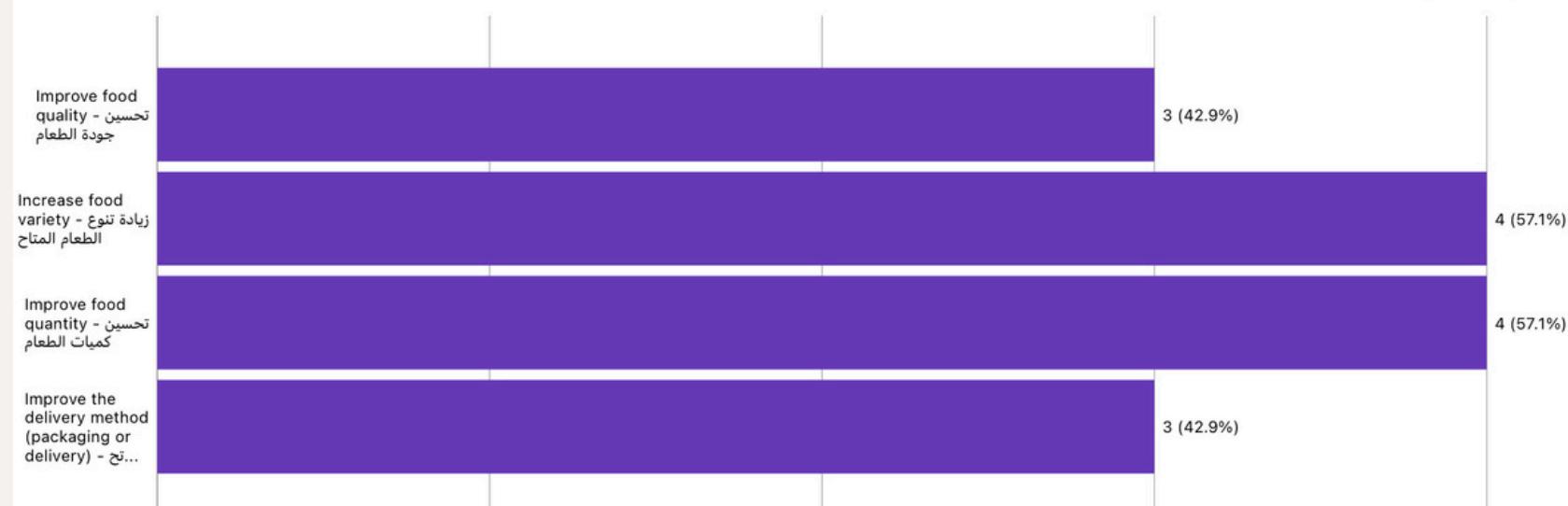
هل لديك حساسية من إحدى هذه الأطعمة؟

6 responses



ما الذي يمكن تحسينه في خدمة توزيع الطعام التي تتلقاها؟

7 responses



9. visualization

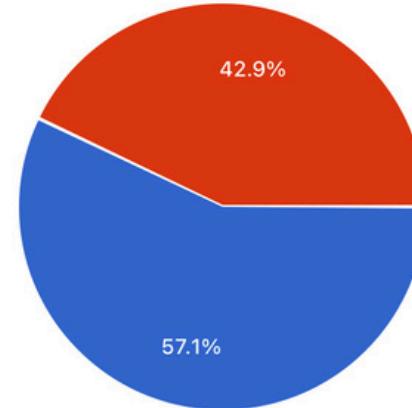
Visualization of Survey 2: For Restaurants and Charitable Organizations

ما الذي يدفعك للتبرع بفائض الطعام؟

④ 7 responses



مساعدة المحتاجين -
تقليل الهدر الغذائي -
تعزيز صورة العل...

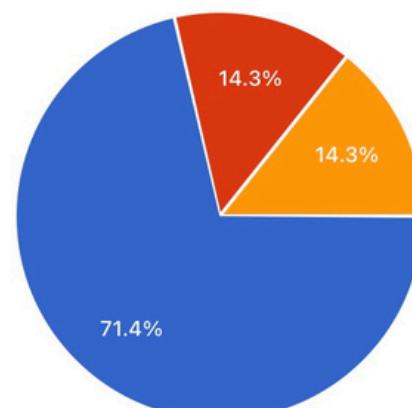


كم مرة تكون لديك كميات فائضة من الطعام يمكن التبرع بها؟

④ 7 responses



يوميا -
عدة مرات في الأسبوع -
أسبوعيا -
شهريا -

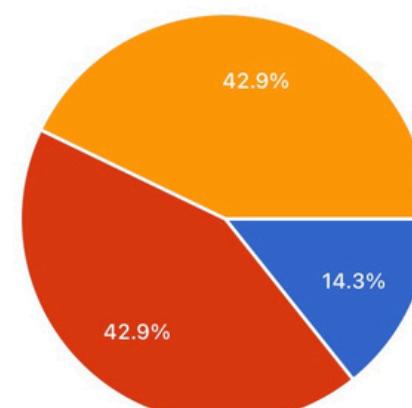


ما هي التحديات التي تواجهك عند التبرع بفائض الطعام؟

④ 7 responses

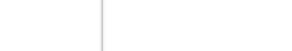


Timing (difficulty in finding the right ti...
النقل و...



ما الذي يمكن أن يسهل عليك عملية التبرع؟

7 responses

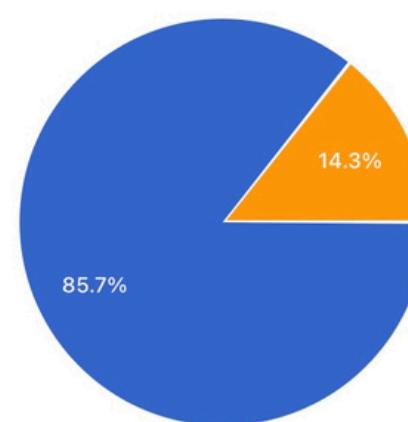


هل تود الحصول على إشعارات أو تقارير حول كيفية توزيع تبرعاتك؟

7 responses

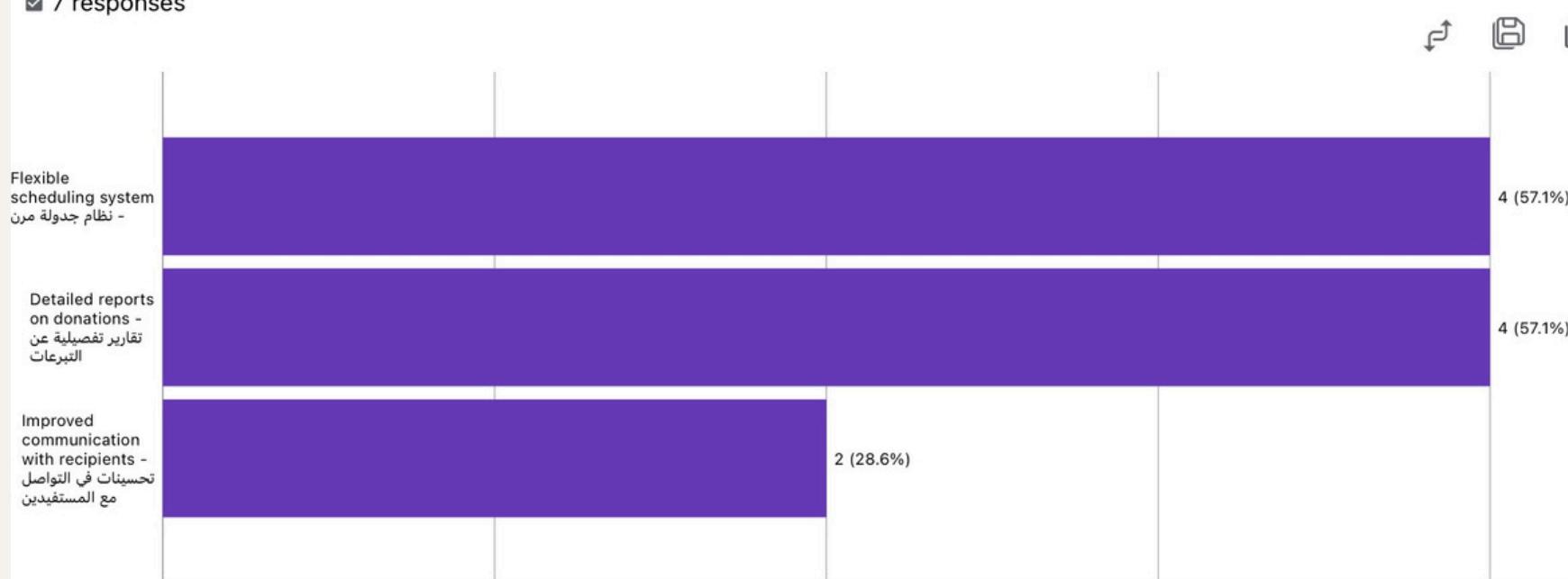


● Yes - نعم
● No - لا
● Maybe - ربما



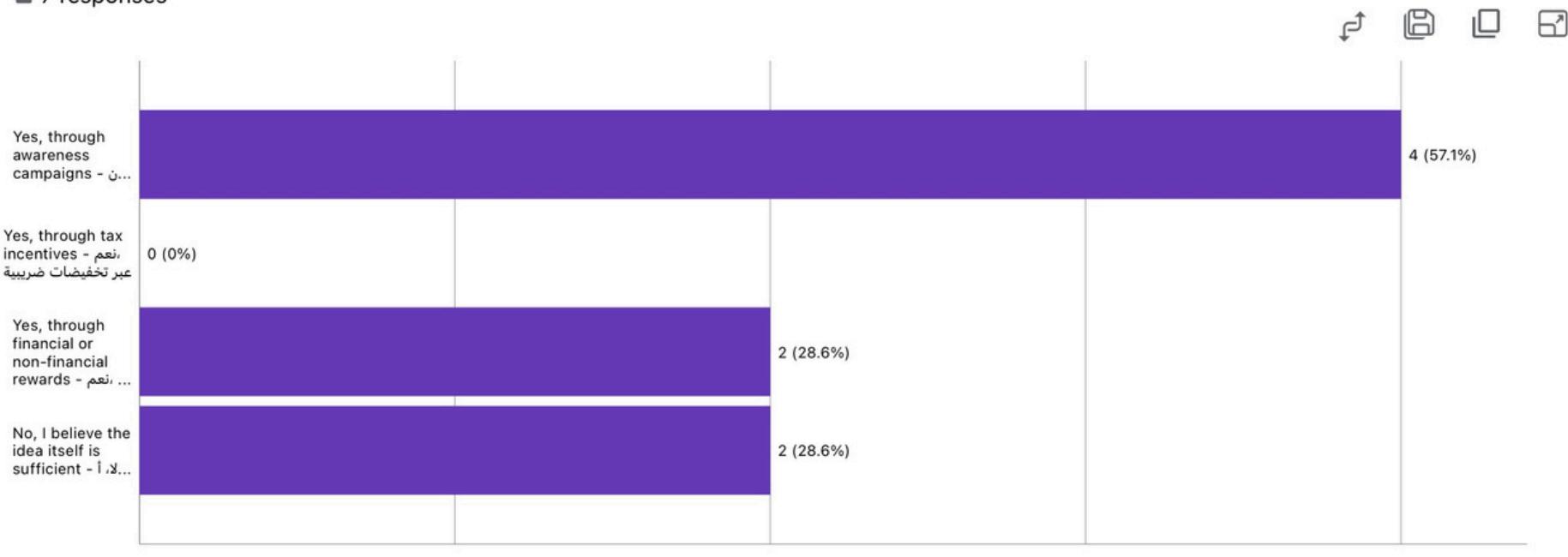
ما هي الميزات التي تود رؤيتها في التطبيق لتسهيل عملية التبرع؟

7 responses



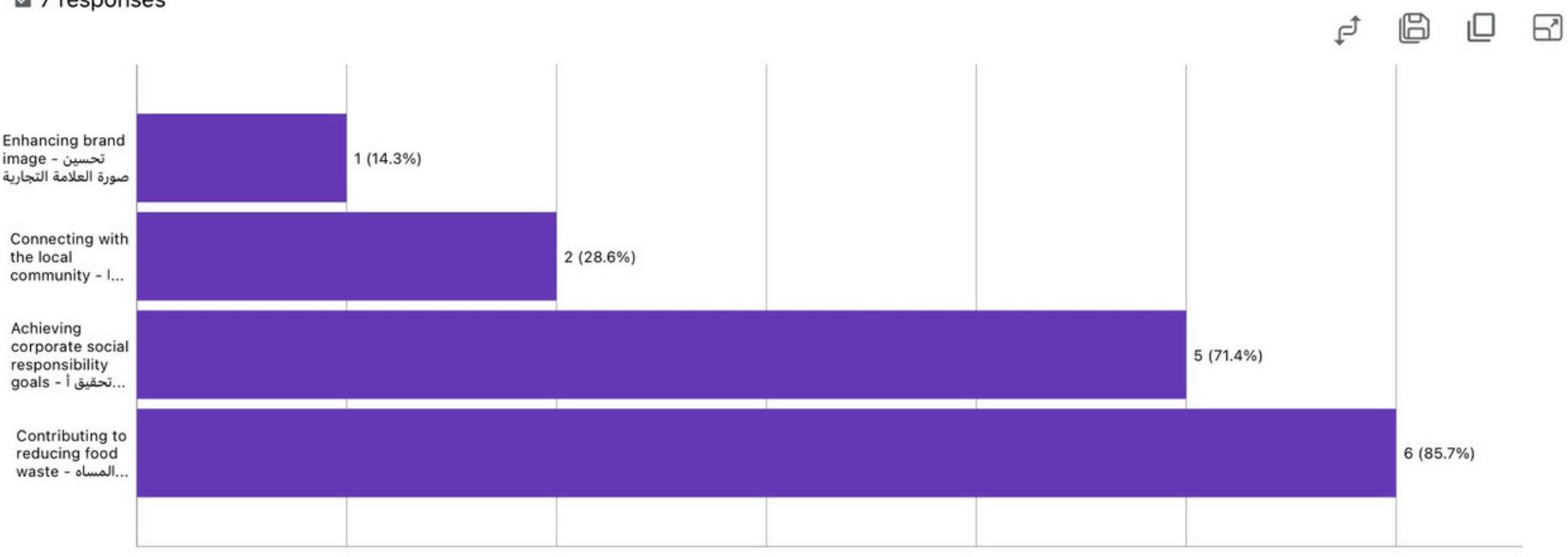
هل تعتقد أن هناك طرقاً لتحفيز المطاعم للانضمام إلى مبادرة التبرع بفائض الطعام؟

7 responses



ما هي توقعاتك من المشاركة في مبادرة التبرع بفائض الطعام؟

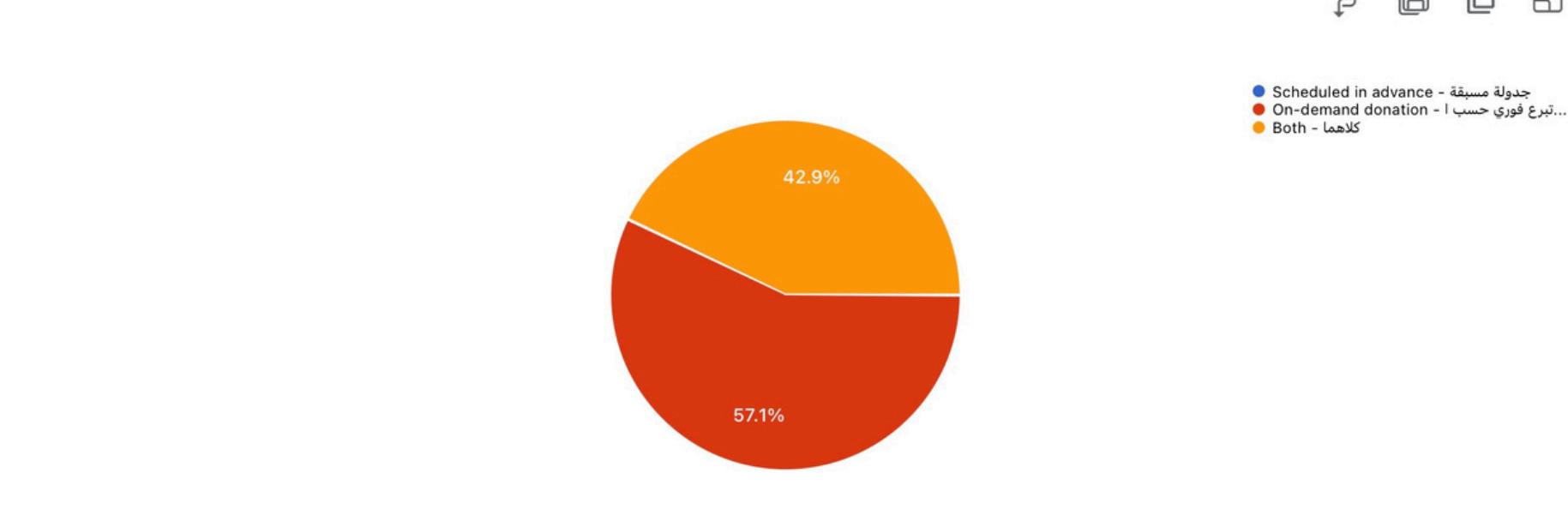
7 responses



هل تفضل جدولة التبرعات مسبقاً أم تقديمها؟

بشكل فوري؟

7 responses



10. List of needs

- Users need assurance that the available food is safe, consumable, and meets hygiene and quality standards
- Beneficiaries need a convenient and quick way to locate and access surplus food distribution points without complications
- Users require assurance that the available food options cater to their specific dietary needs, such as avoiding allergens
- Beneficiaries need flexible collection times that fit their personal schedules and circumstances
- Food providers and restaurants need to ensure that the food reaches the intended recipients, specifically the targeted individuals in need

11. List of insights

- People are concerned about the safety and quality of food. Ensuring food quality is important because if people receive poor-quality meals, they may avoid using the app and accepting donations.
- Users, especially those with transportation issues, struggle to receive food from distribution centers, so they need food delivered to their homes.
- People have different food preferences and restrictions, requiring a variety of food choices and clarification of food allergens it has.
- Lack of dependable transportation is one issue that donors face, which might result in food waste even though they want to donate.
- Donations will likely increase when documented and ensured to reach the intended recipients.

12. List of tasks

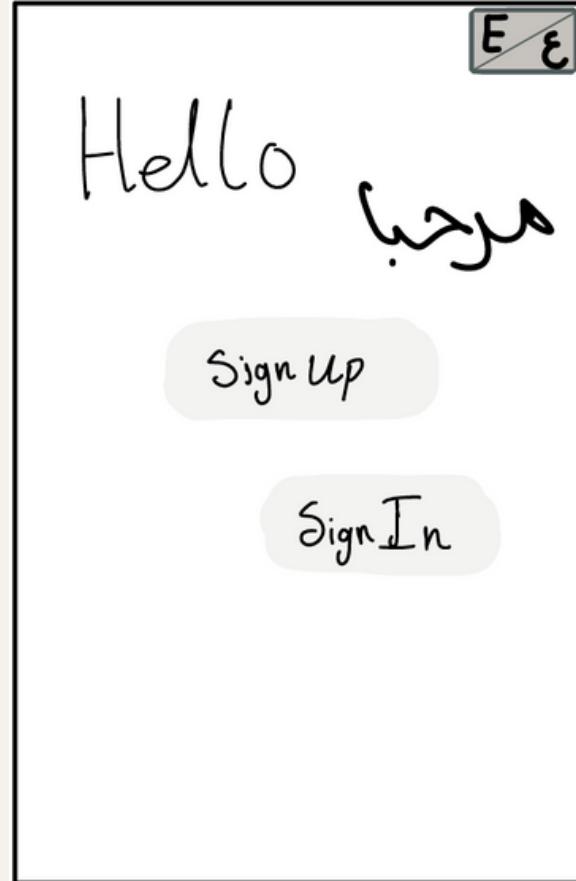
- Get notifications when food is available
- Choose food according to preference and need
- Providing a smooth transportation process between restaurants and those in need
- The feature of tracking donations in real time by sending notifications to confirm receipt. For example, there is also the feature of providing detailed reporting, highlighting key metrics such as the number of meals distributed and beneficiaries.
- Ensuring the monitoring of food quality and safety standards through the user's ability to evaluate the food and service

13. LOW Prototyping

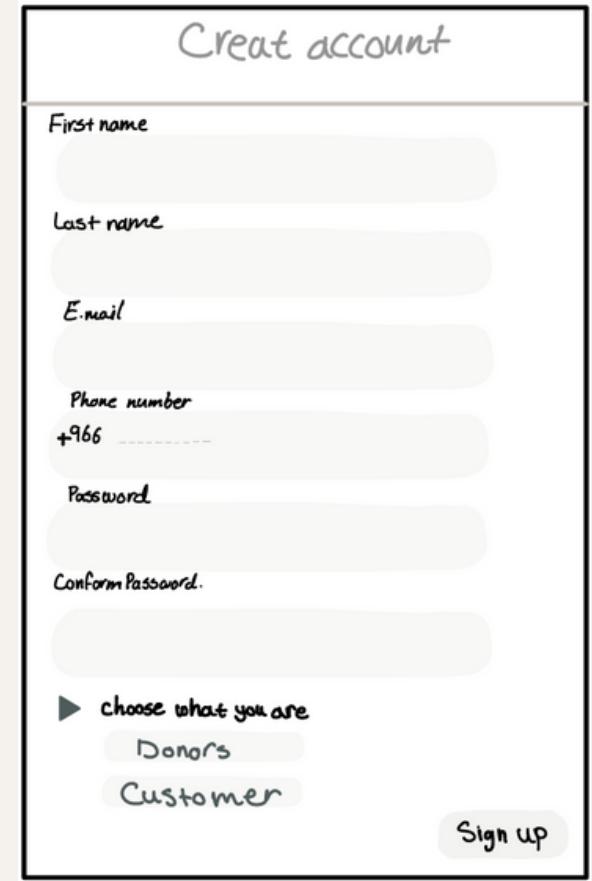
13.1 For the donor



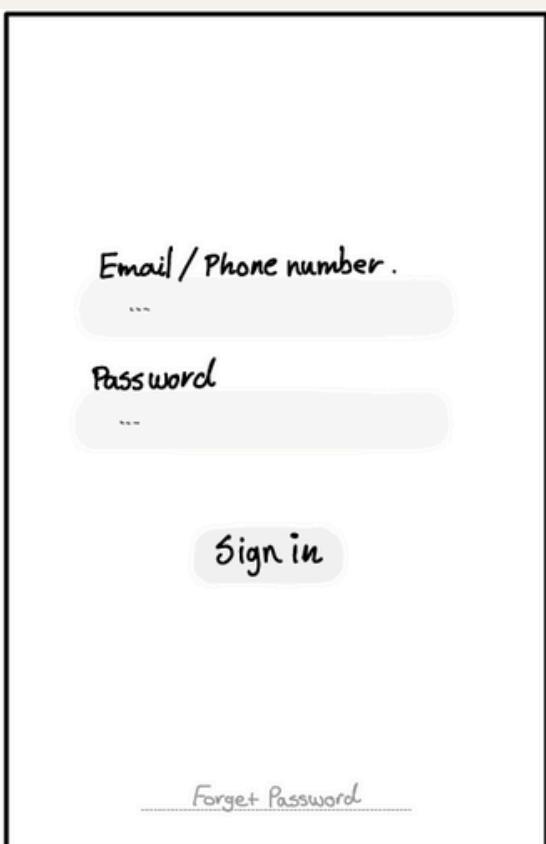
Welcome page



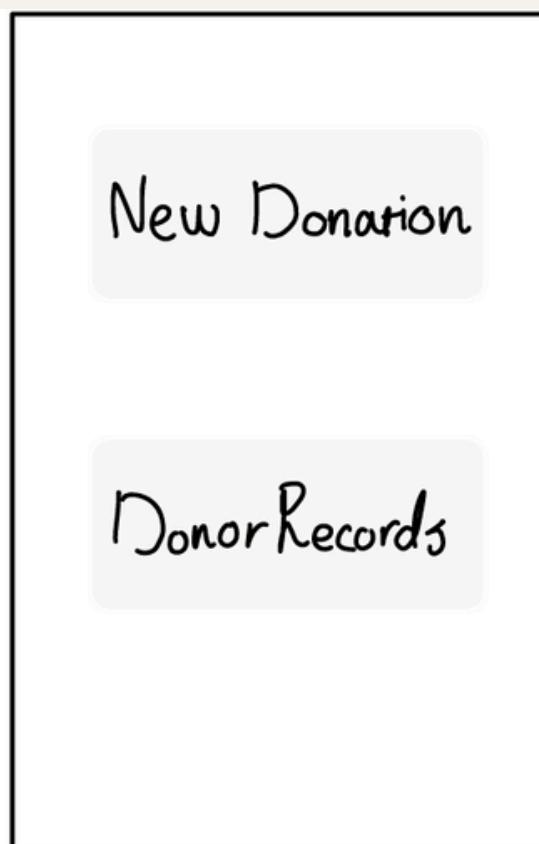
Option to sign in or sign up for the program and select the language you want to complete in



When choosing to sign up, the user fills out the information required to create a new account



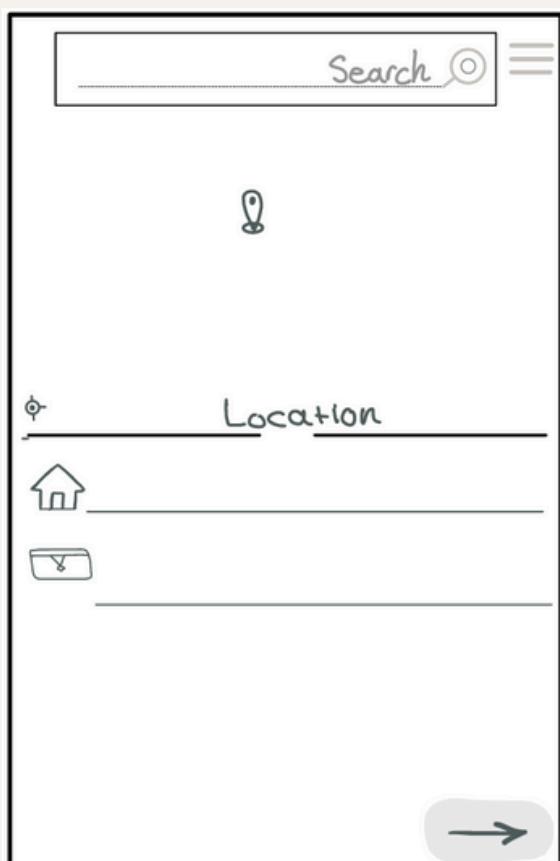
When you choose to sign in, you must enter your phone number/ email, and password to verify authentication



The home page for donor operations allows adding new donations or following up on donation records



When choosing a new donation, you must enter the following information, such as the type of food, its quantity, its validity, etc., and specify the time to receive the donations so that the donations can be recorded and scheduled.



Locate the donation location



When choosing a donation record, the name of the organization and its donation statistics are displayed

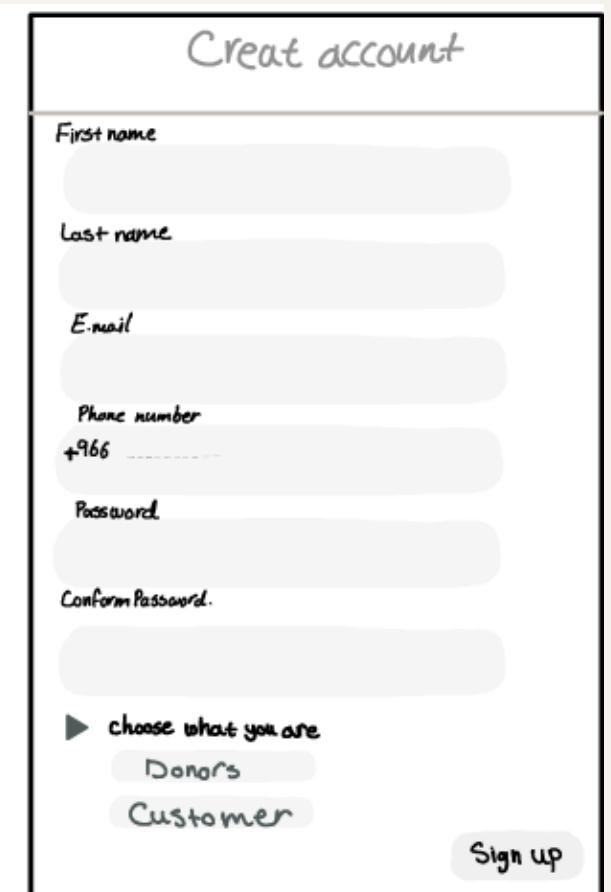
13.2 For the customer



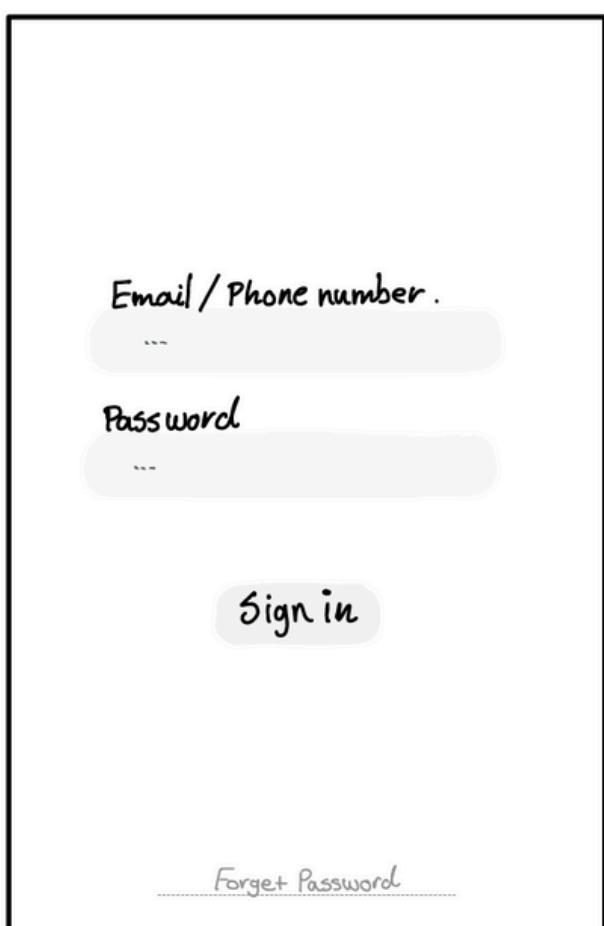
Welcome page



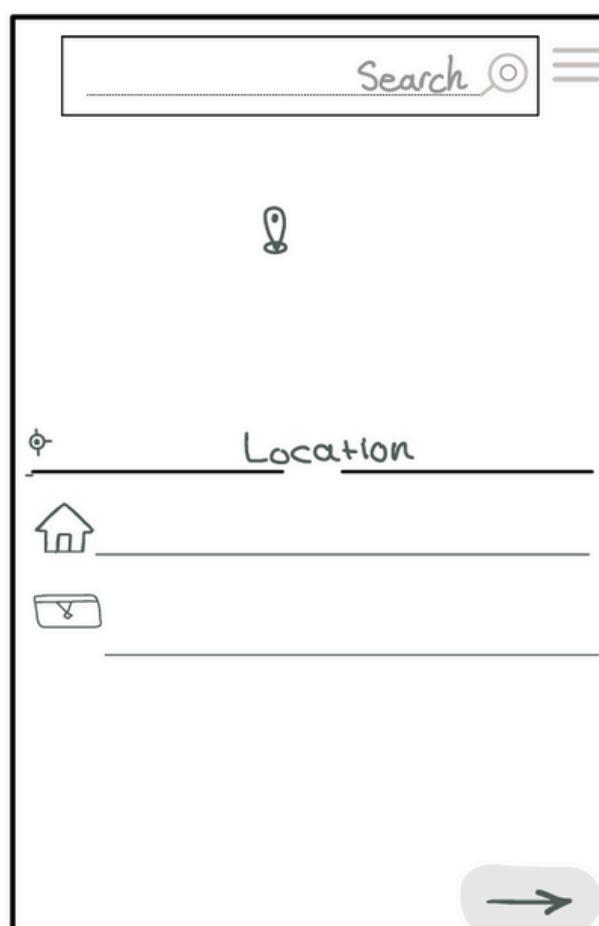
Option to sign in or sign up for the program and select the language you want to complete in



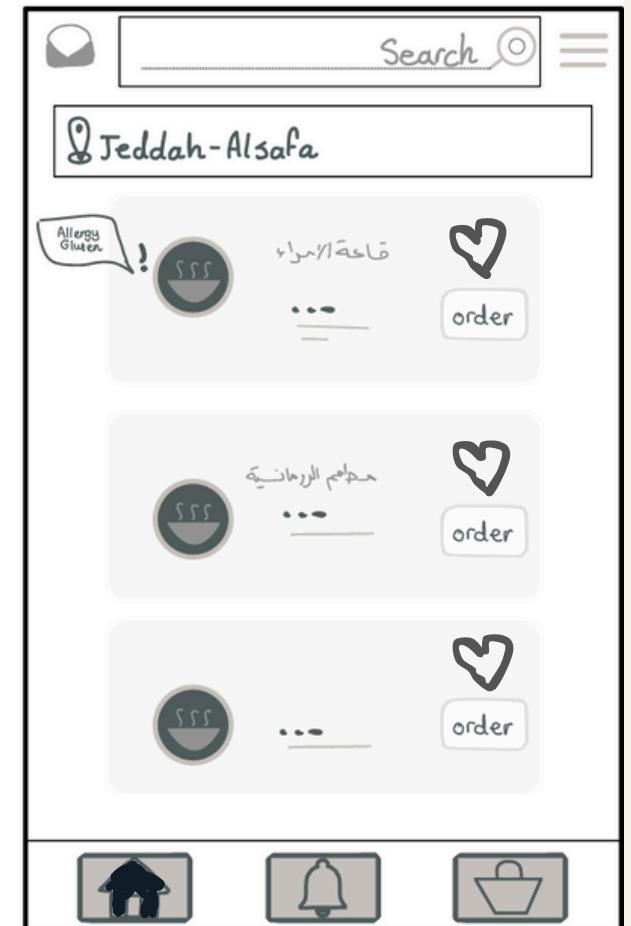
When choosing to sign up, the user fills out the information required to create a new account



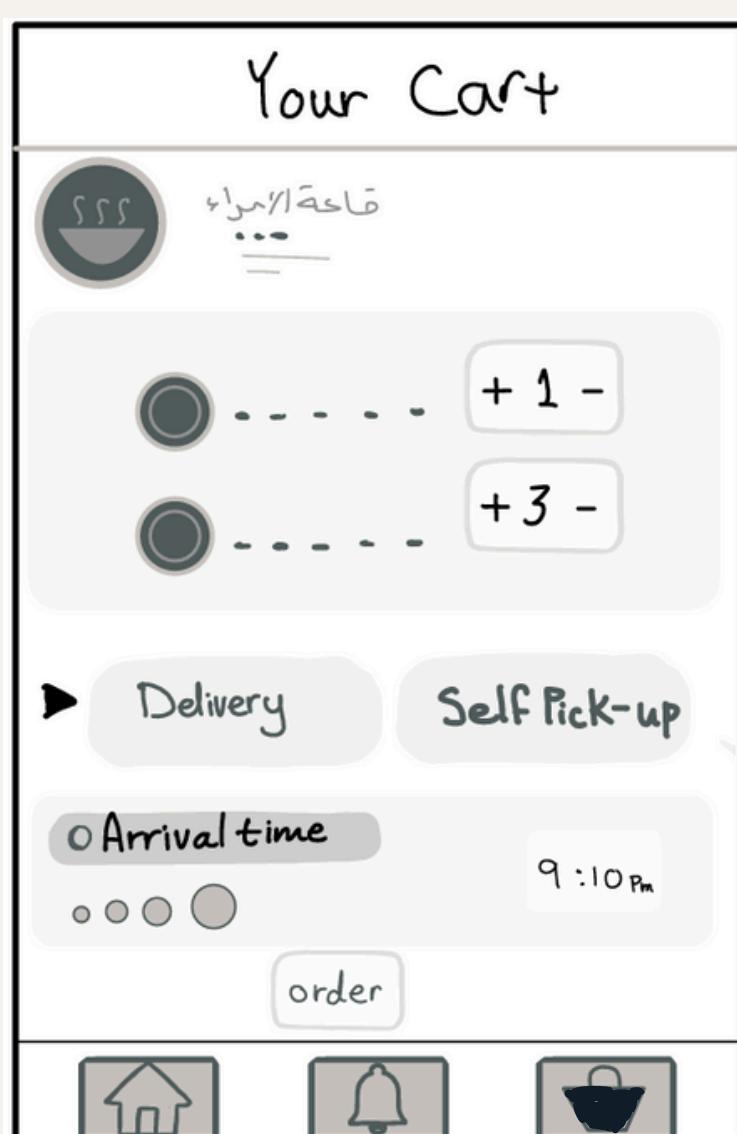
When you choose to sign in, you must enter your phone number/ email, and password to verify authentication



Determine the location of the user



The home page for a user displays different restaurants that provide food with the food ingredients to avoid allergens for the user

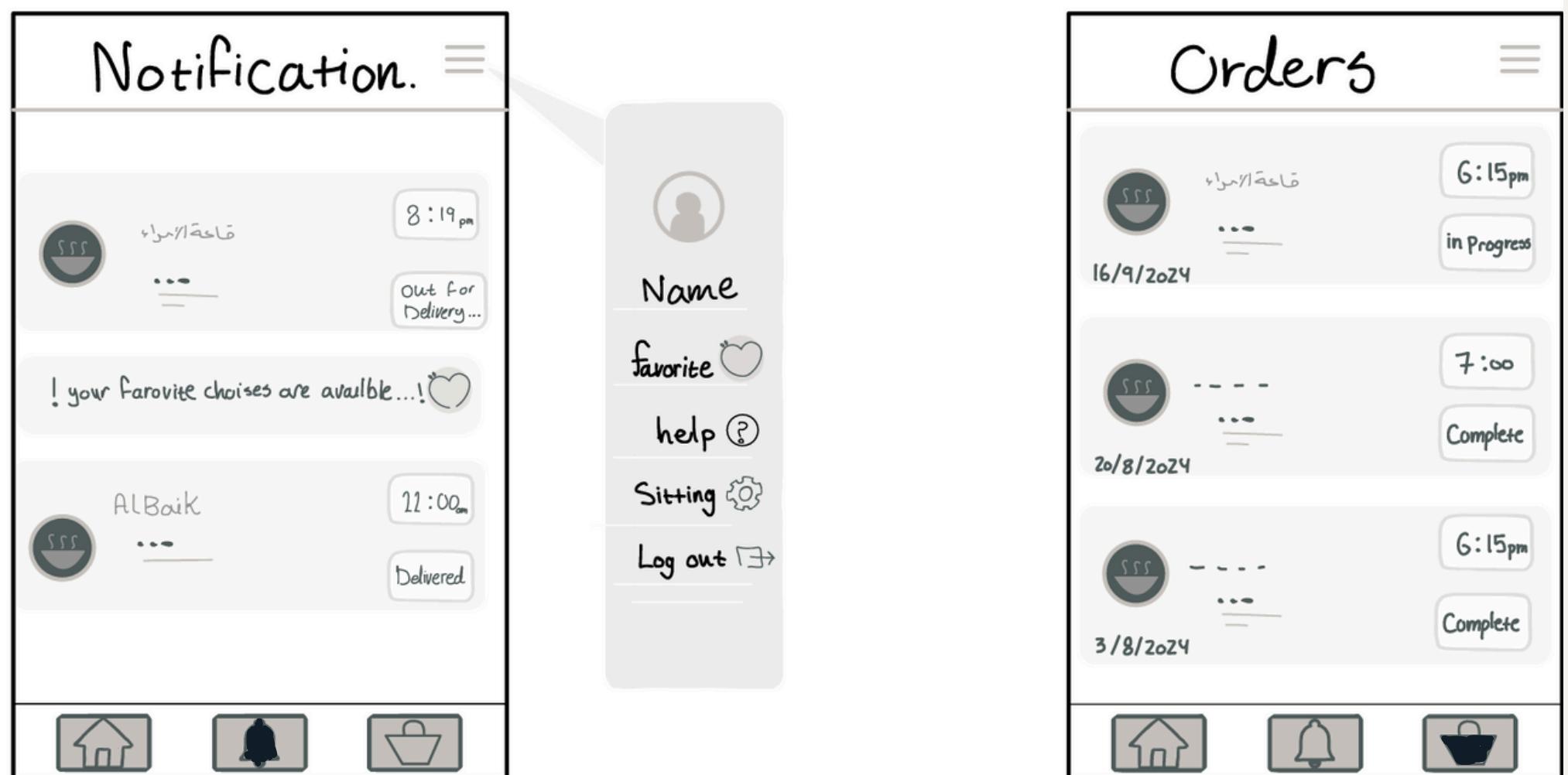


The user's order cart displays the order, quantity, and confirmation, in addition to specifying the method of receiving the food, whether by delivery or pick-up from distribution points.



Locate nearby food distribution points

13.3 taskbar



Notification page, which informs the user of the situation of his order

The taskbar displays the user's account and his preferences

Order page, which records the previous order and the order in progress

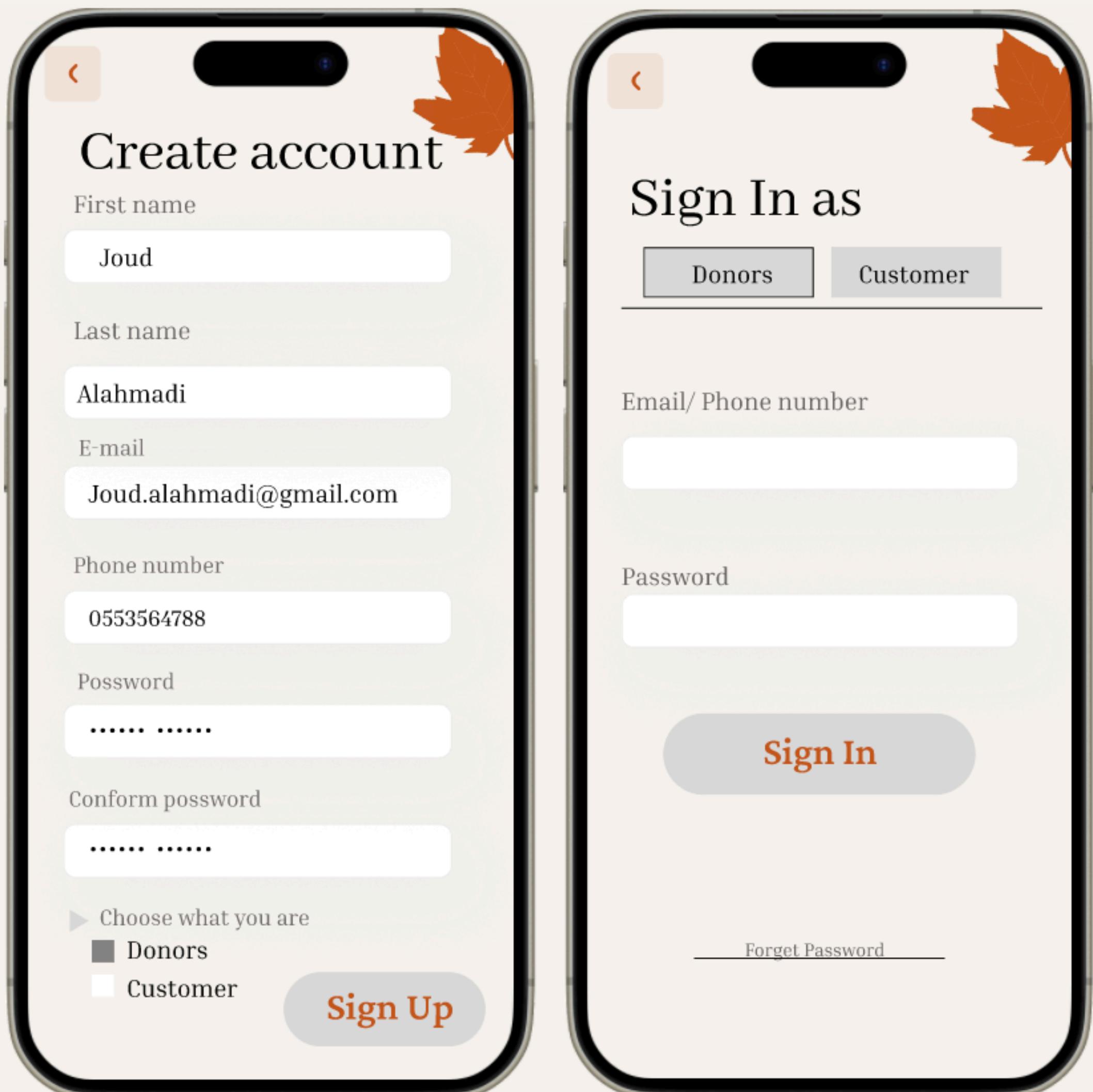
14. Design Explanatory Paragraph

The new design makes it easier for users to access and donate surplus food. It provides a simple way to create accounts and manage orders. Features include food categorization to avoid ingredients that may cause allergies, and it allows users to choose flexible times for food pickup or delivery. It also sends instant notifications to follow up on the order. The donation record provides donation statistics to ensure food reaches those in need.

15. High-Fidelity Interactive Prototype



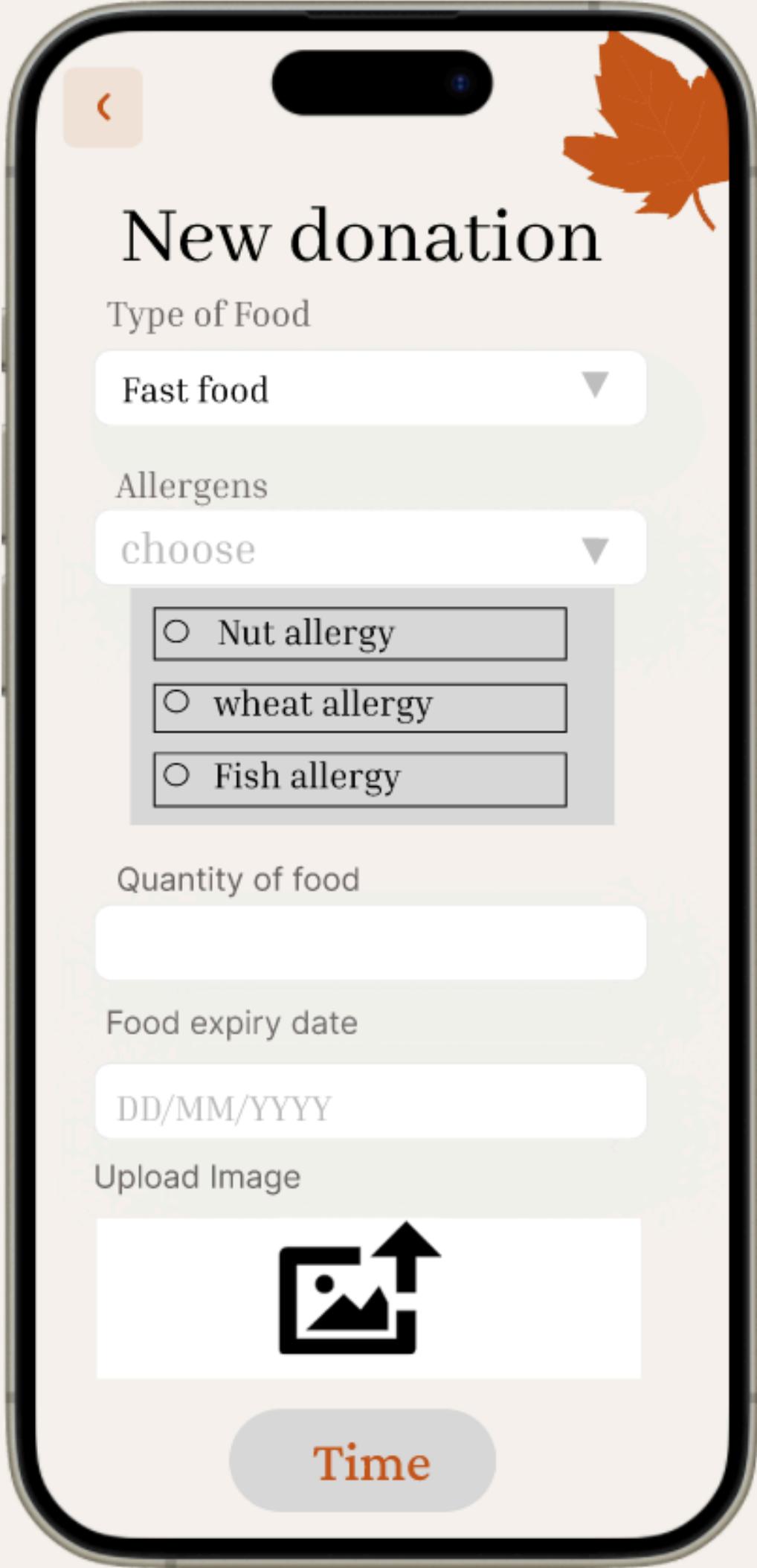
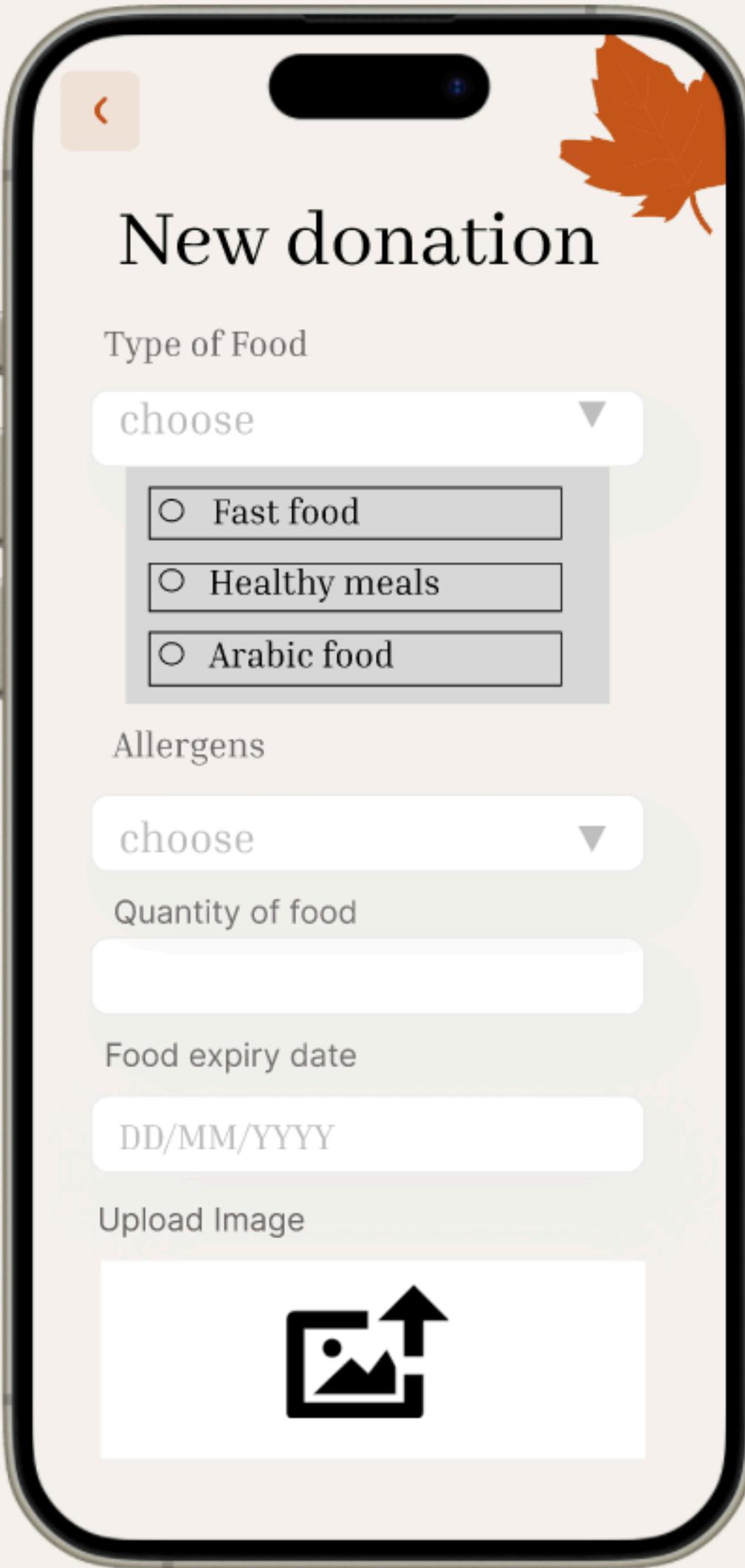
Welcome page with option sign in or sign up and the Letter “ع”
convert language to Arabic



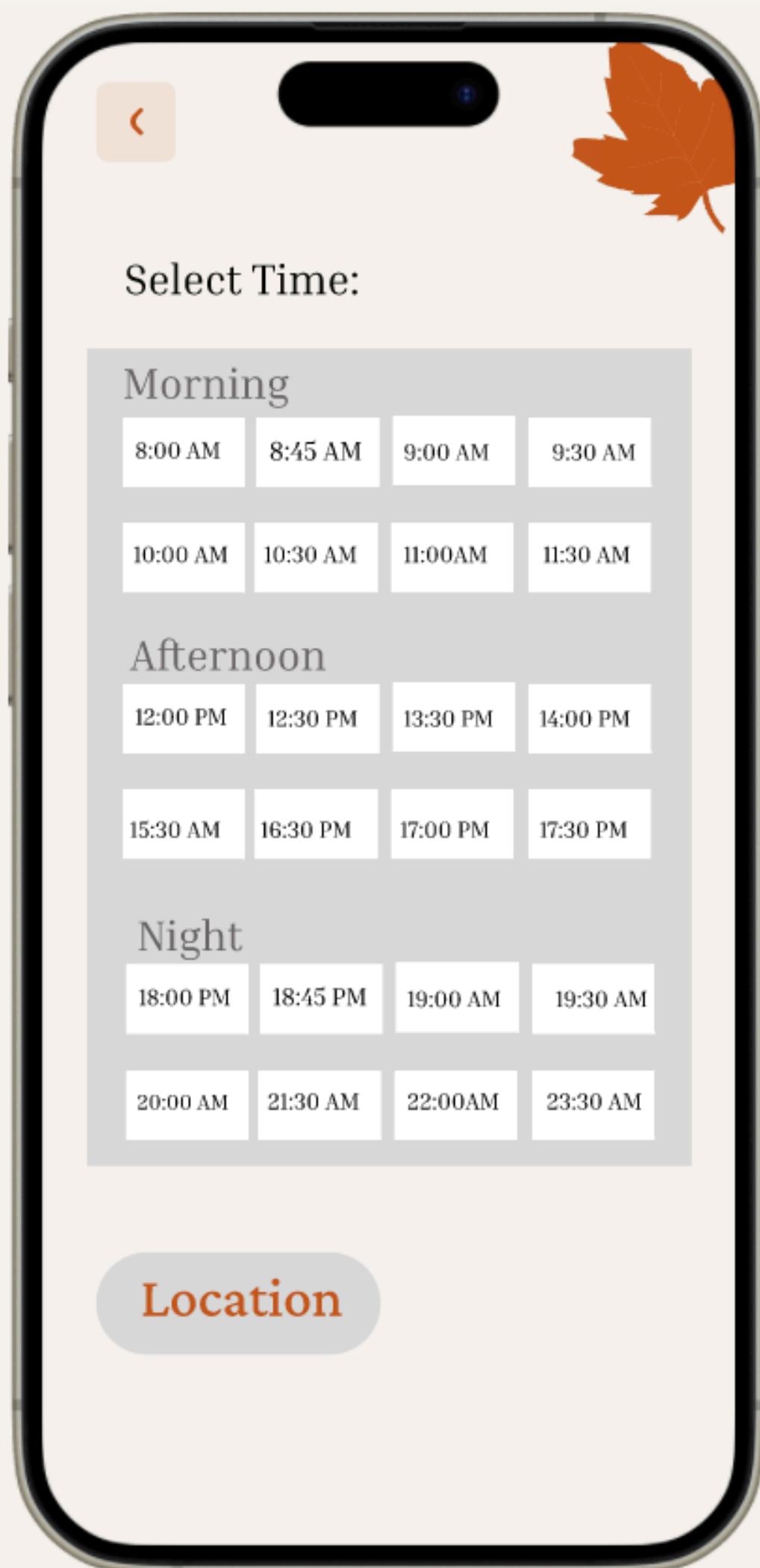
If the user chooses to sign up, he will be transferred directly to the account creation page, where he must fill in the data and specify his role as a donor or a customer to show him the interface that suits his requirements. However, suppose the user has previously created an account. In that case, he can directly log in through the sign-in option and be transferred to the sign-in page, which includes the (forgot password) option that helps the user retrieve his account



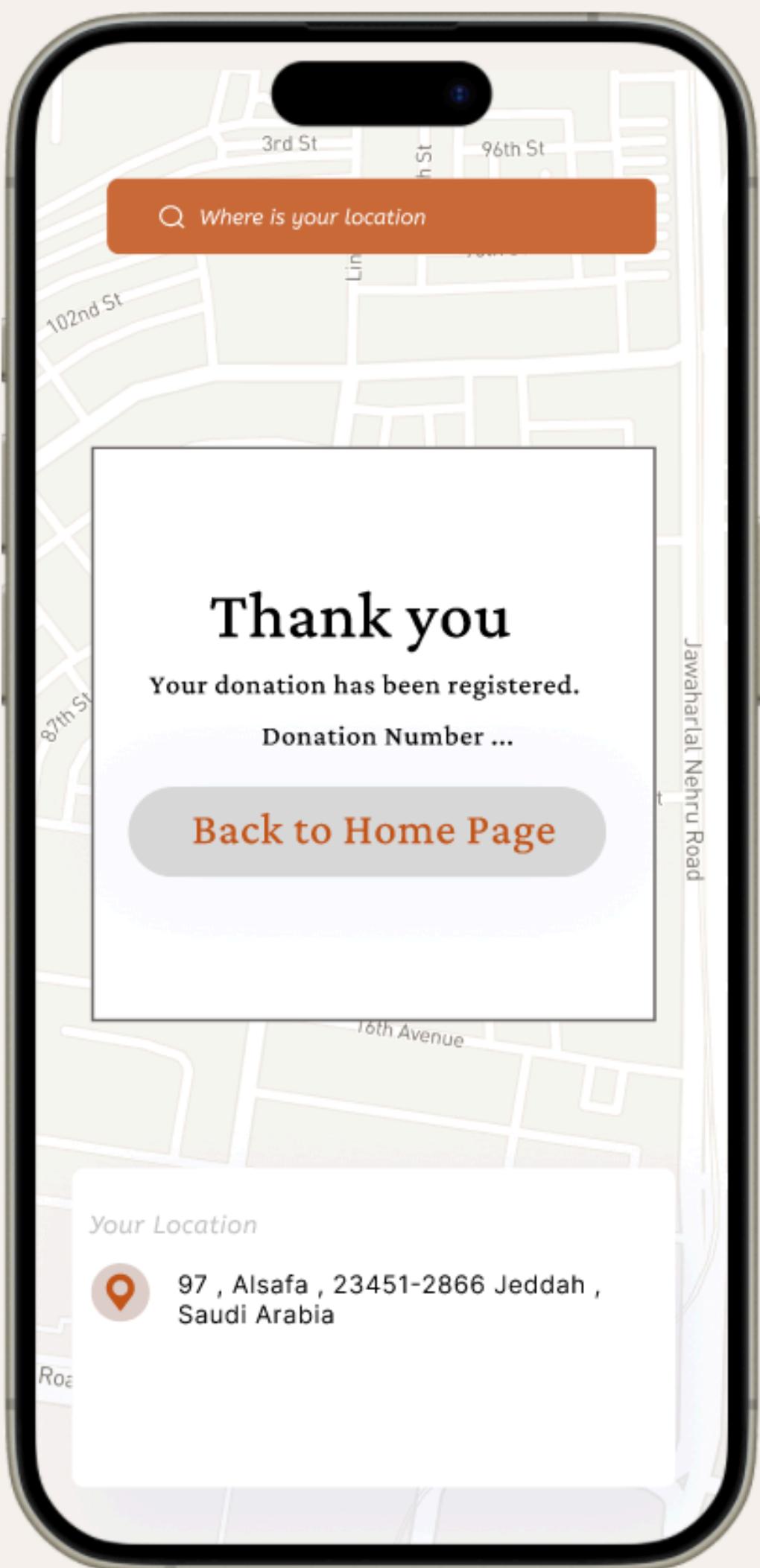
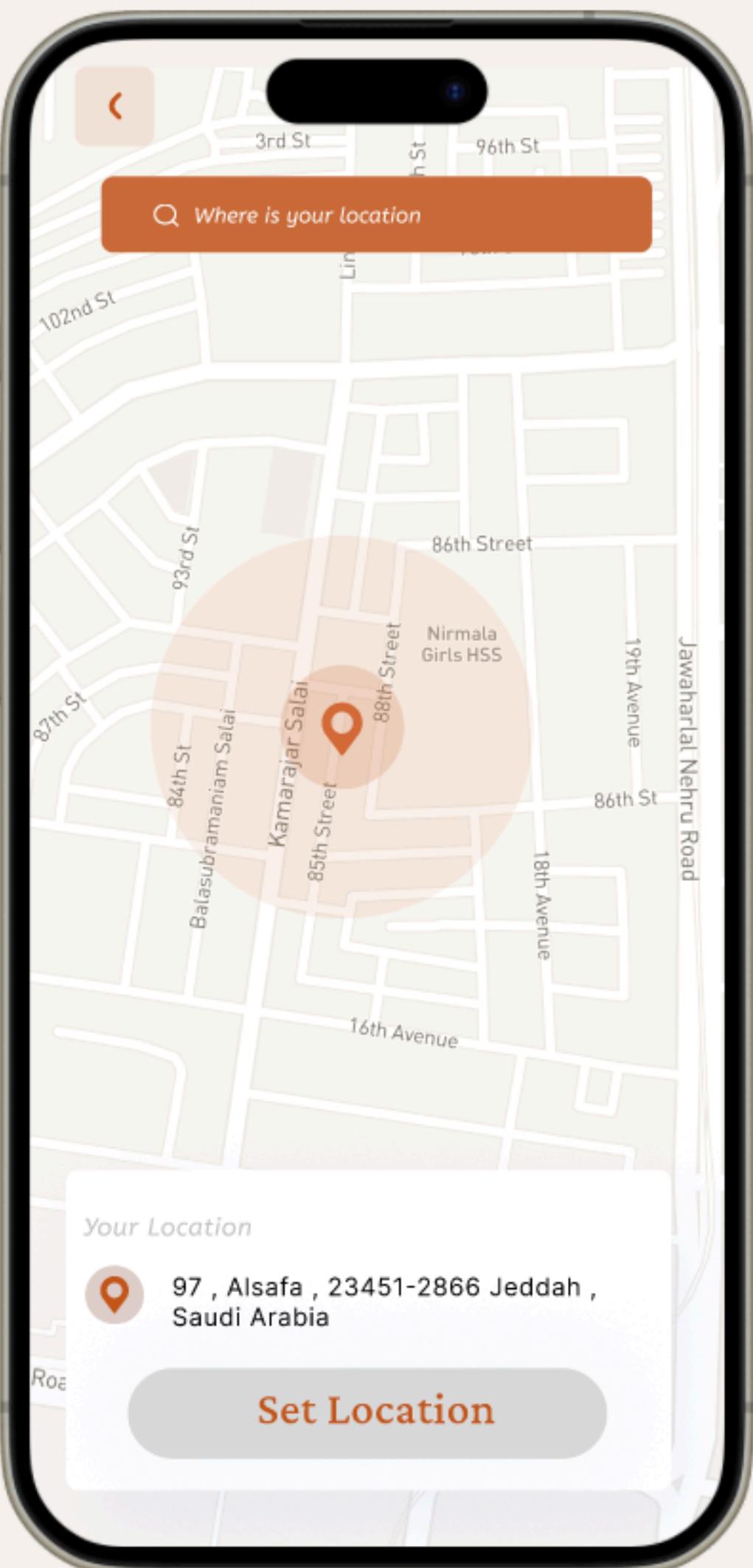
The donor page displays two options. For new donations, we will ask for information such as the Allergens and the time and location to get the donation. The second option is Donor Records, which display the information



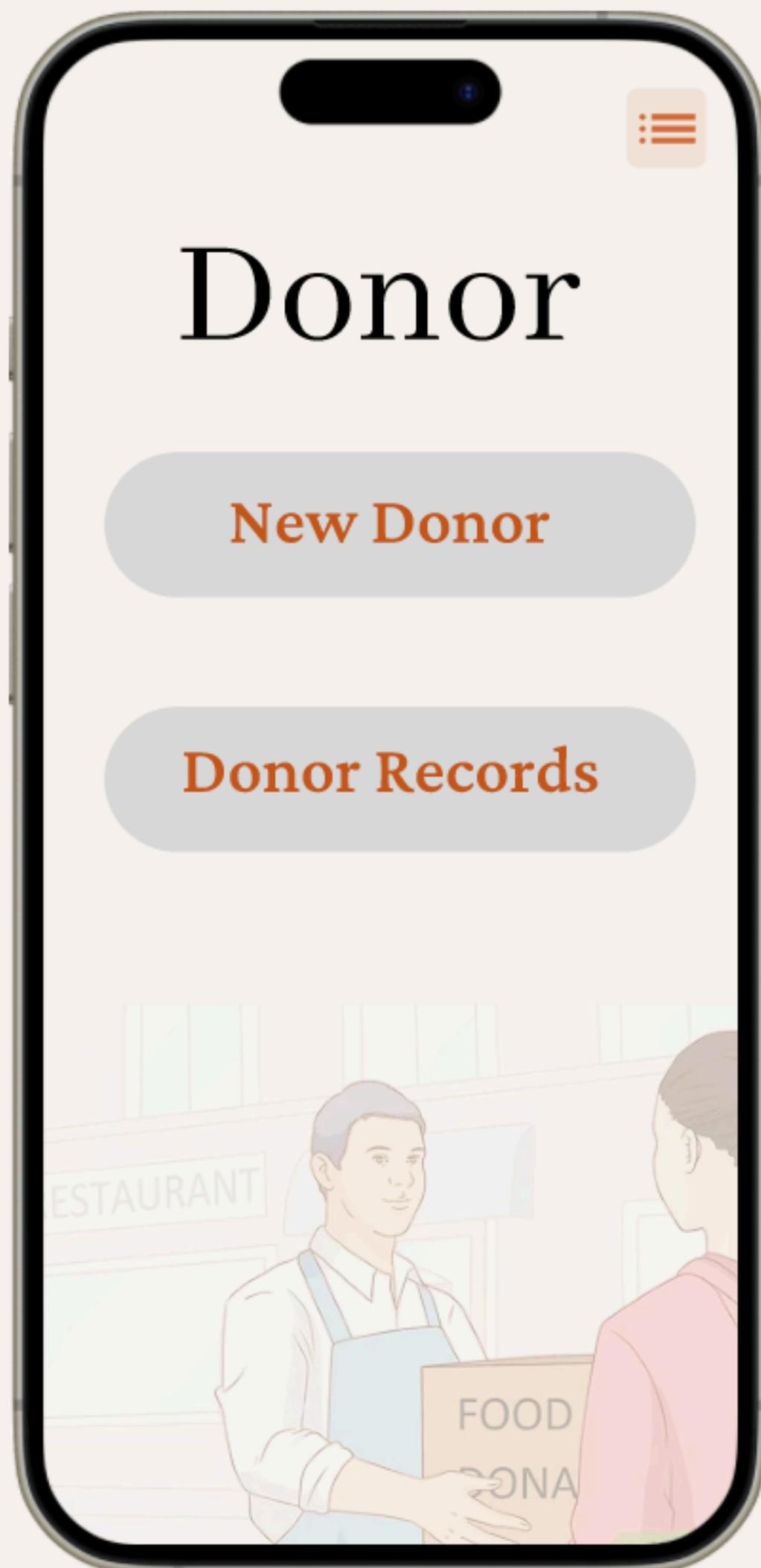
There will be options to select type of food and allergies



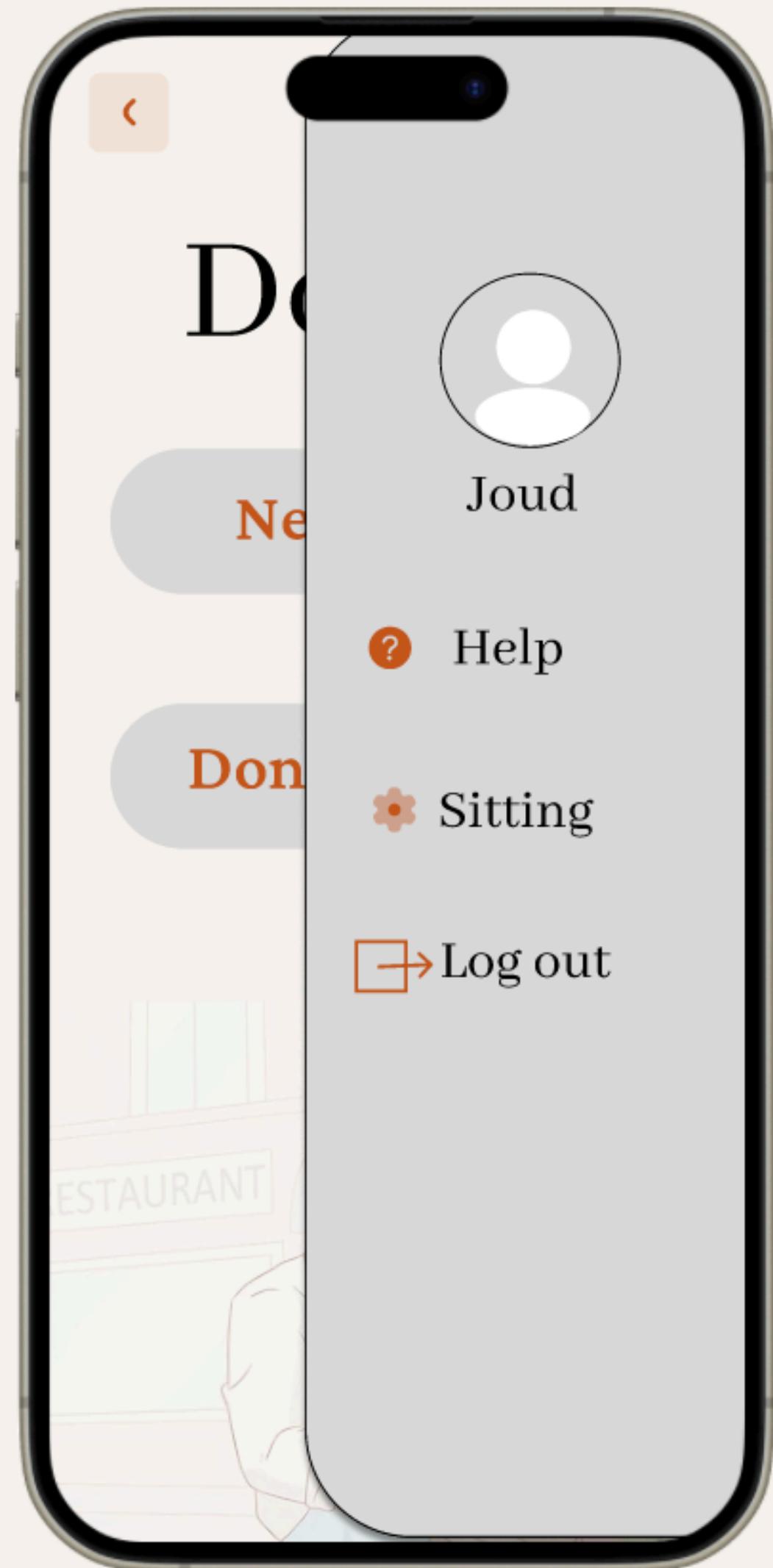
After entering the donated food information, the scheduled time you want to donate.



Set the location
then go back to home page



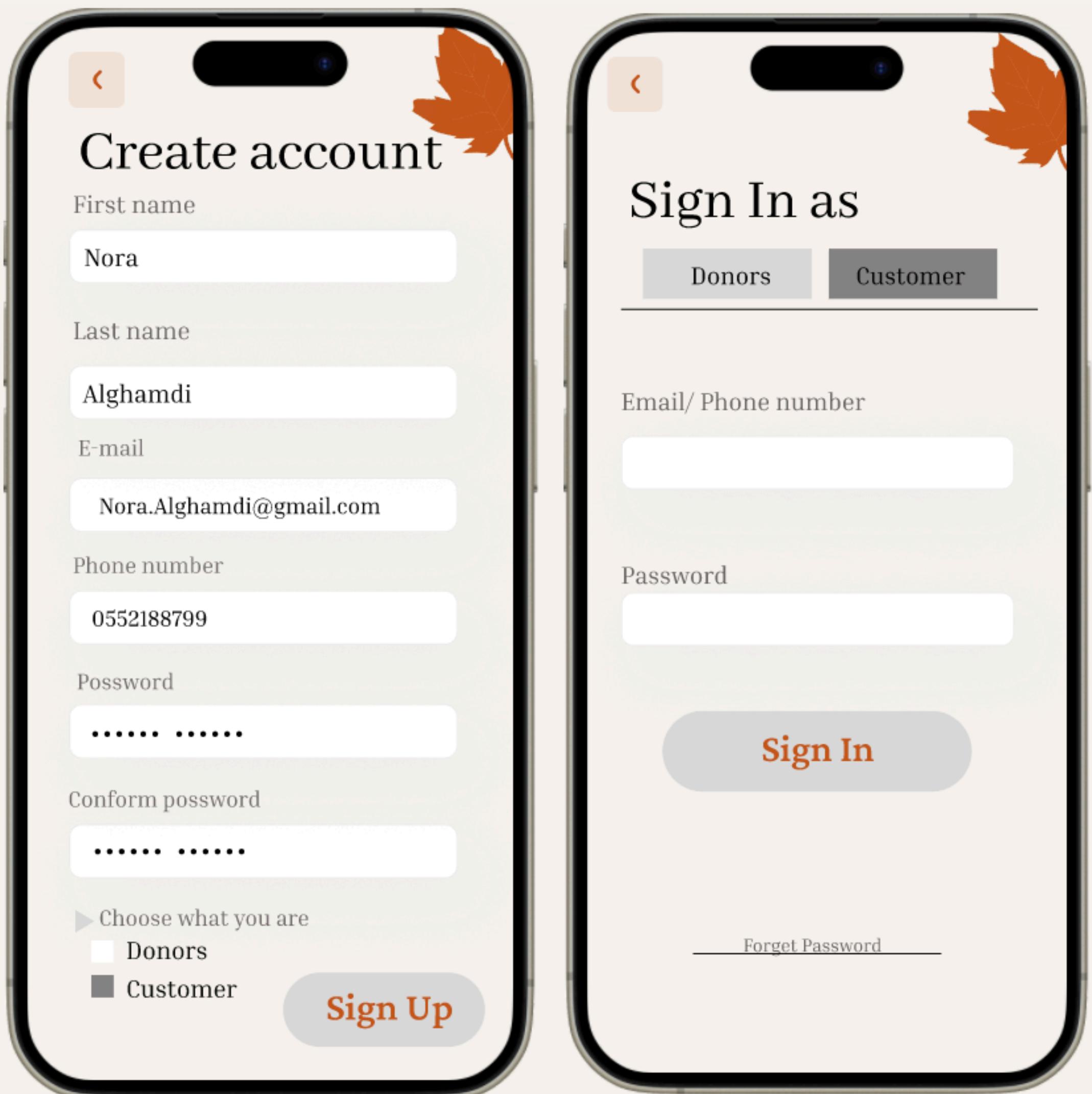
If the donor press the donor Records button it will display his information as his name the statistics that display a different value as an example display the number of donation and the another operation then go to the home page



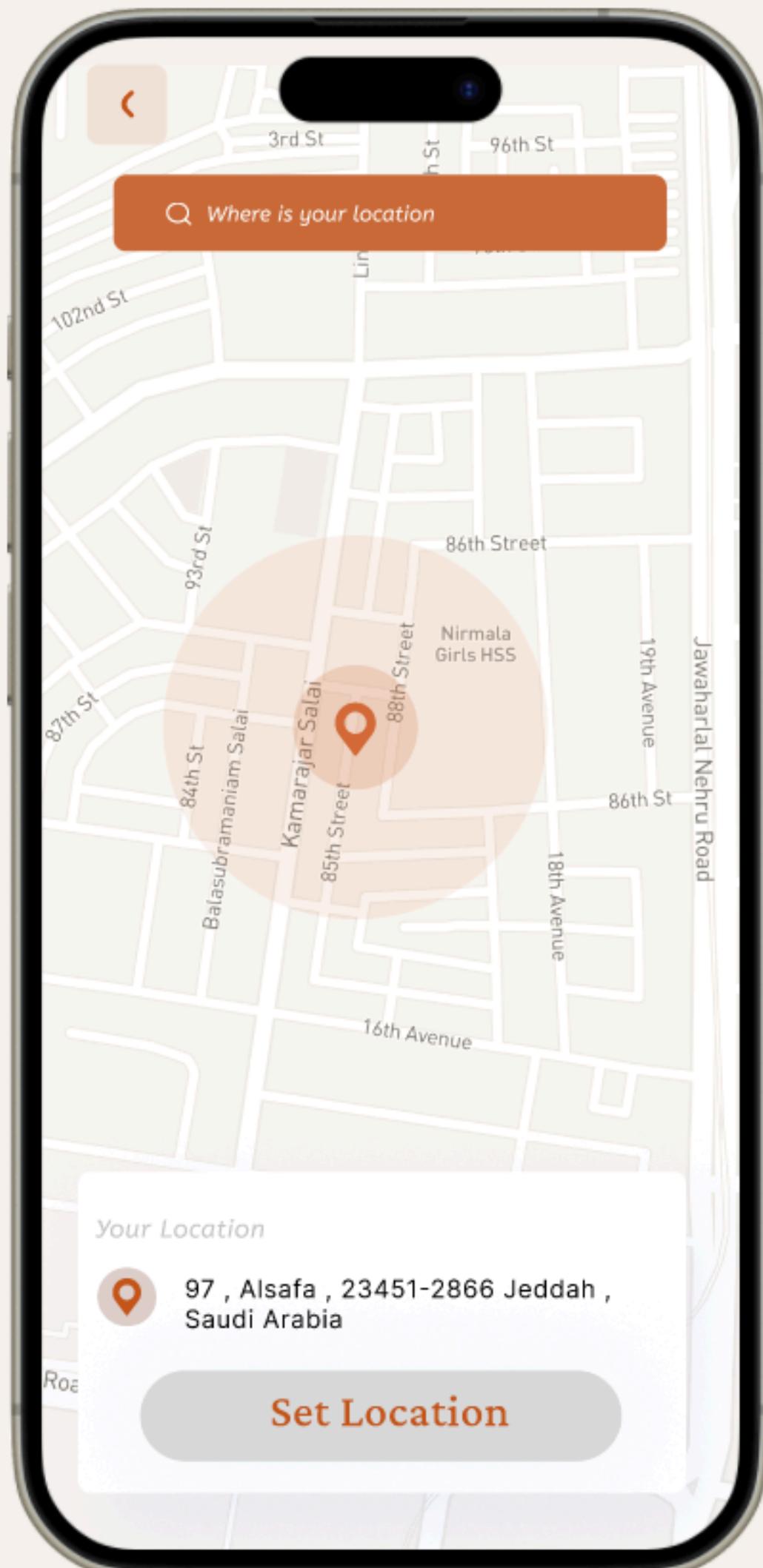
donor Profile which provide the help to donor and the sitting and Log out



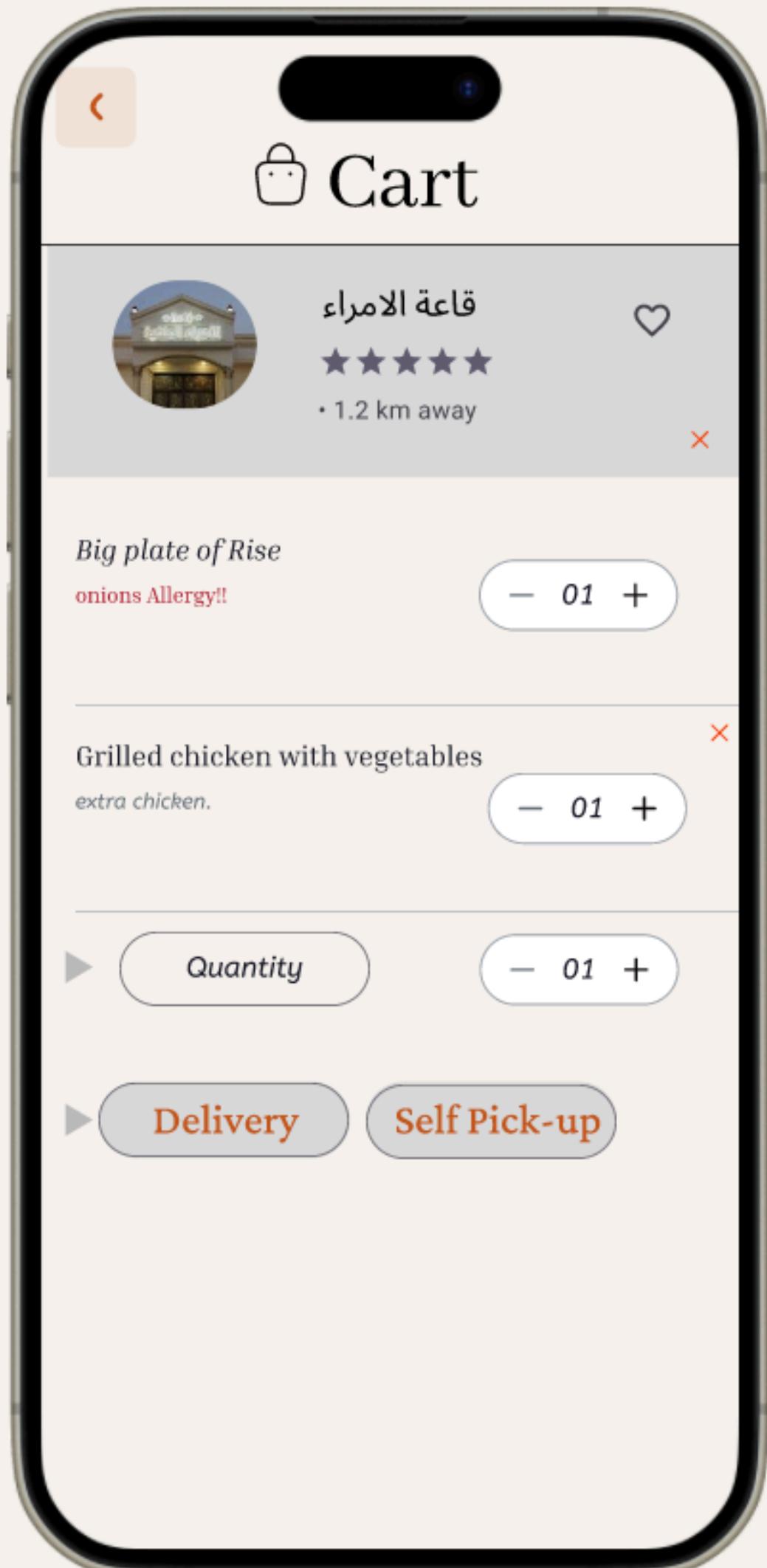
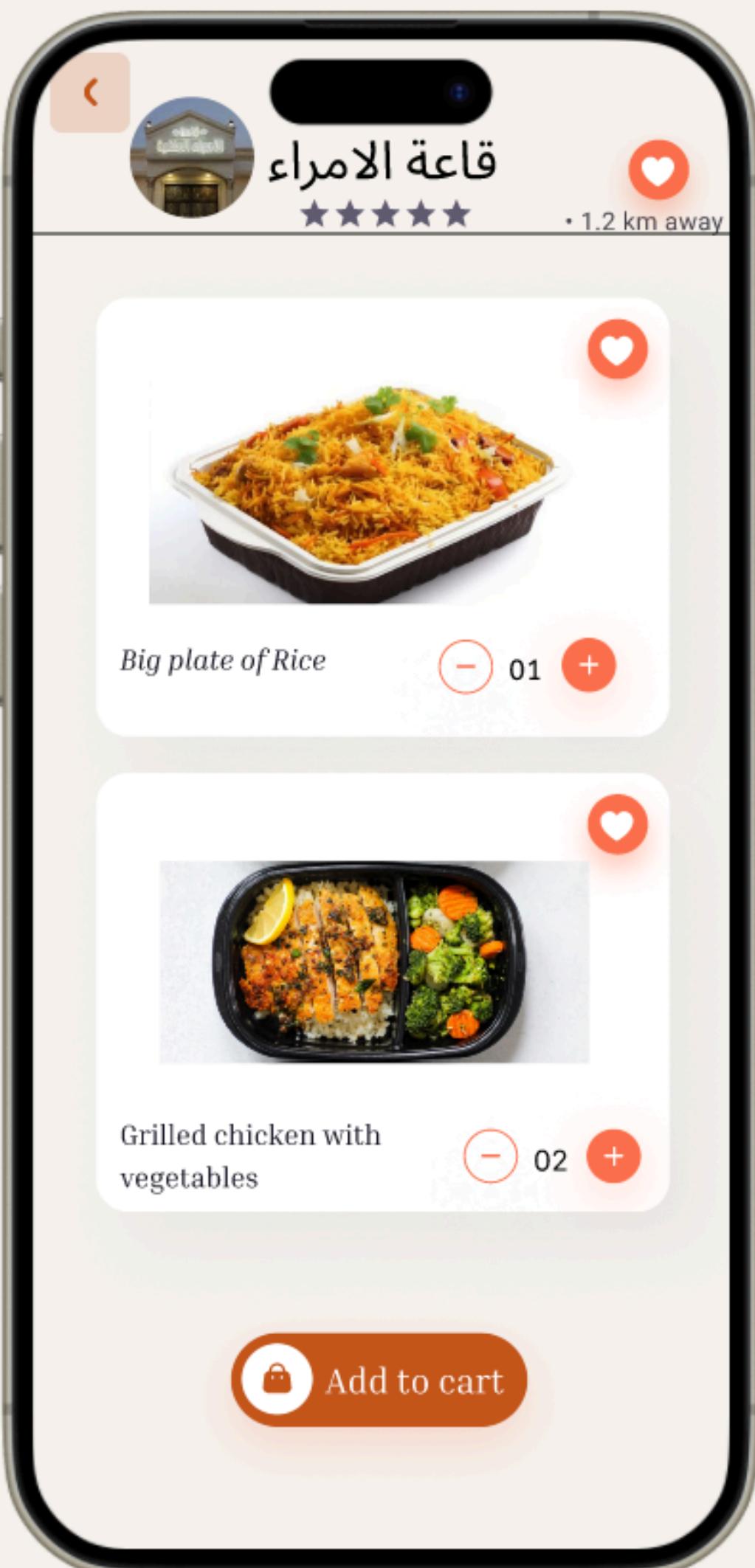
Welcome page with option sign in or sign up and the Letter “ع” convert language to Arabic



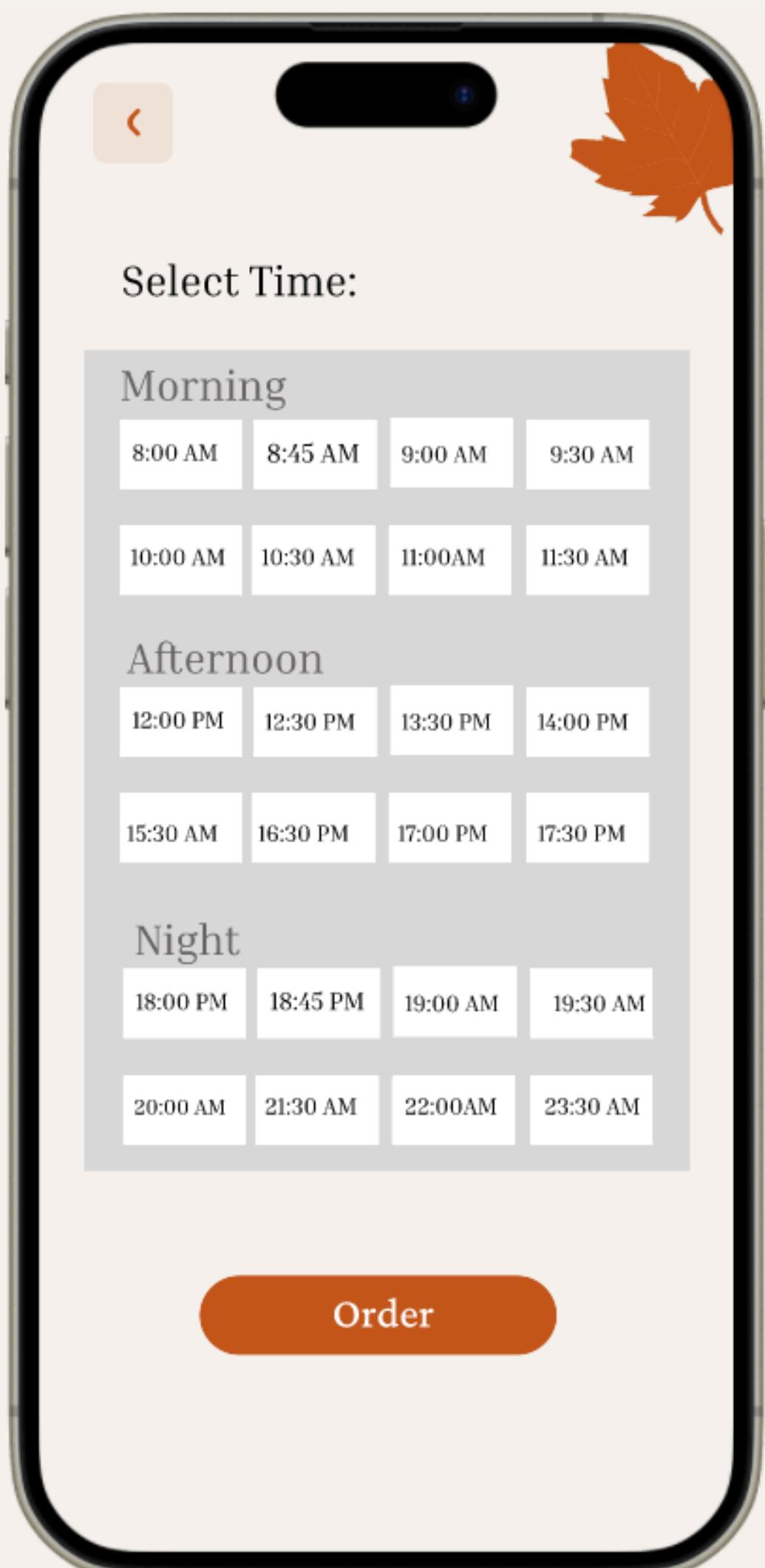
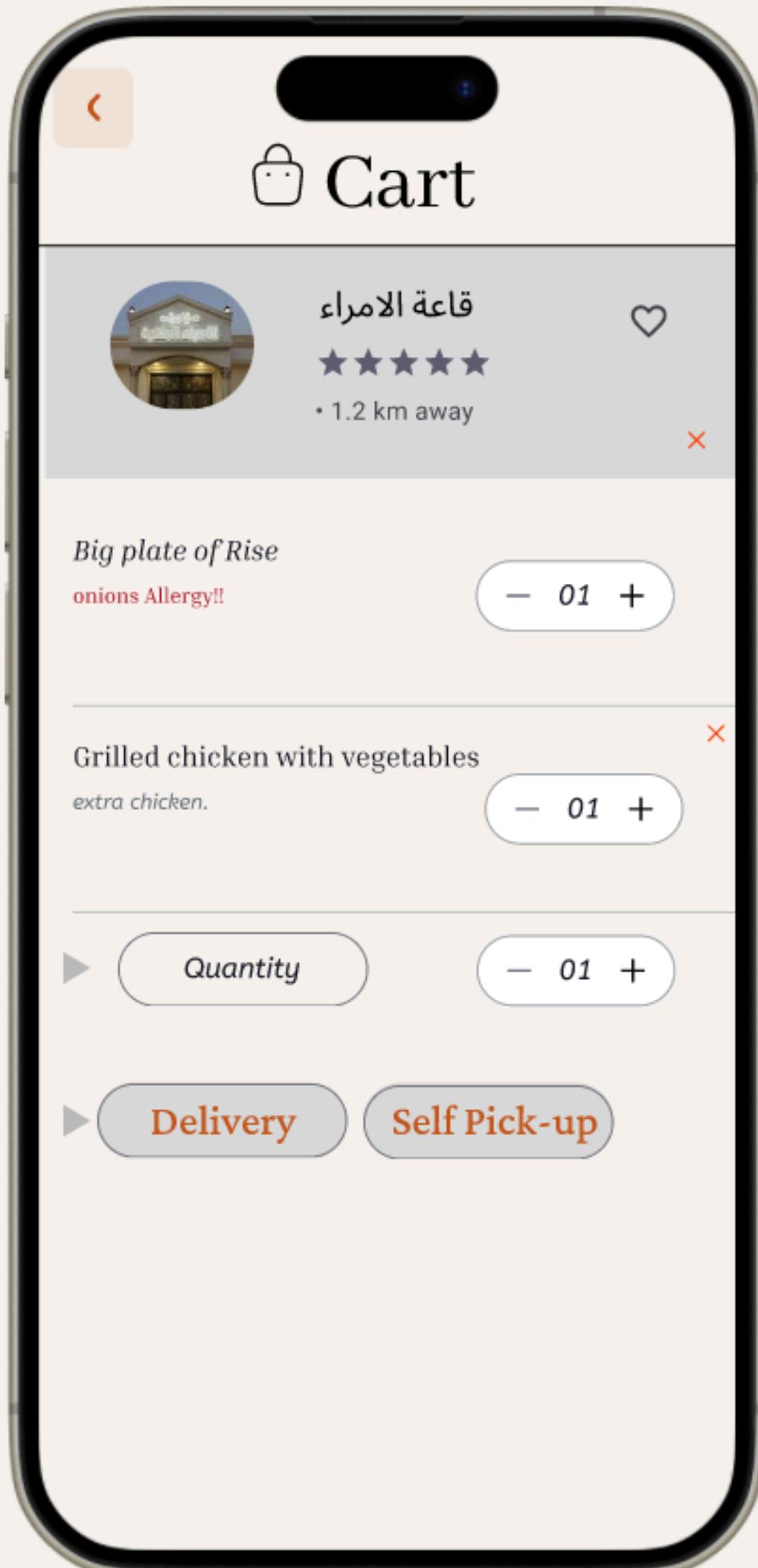
If the user chooses to sign up, he will be transferred directly to the account creation page, where he must fill in the data and specify his role as a donor or a customer to show him the interface that suits his requirements. However, suppose the user has previously created an account. In that case, he can directly log in through the sign-in option and be transferred to the sign-in page, which includes the (forgot password) option that helps the user retrieve his account



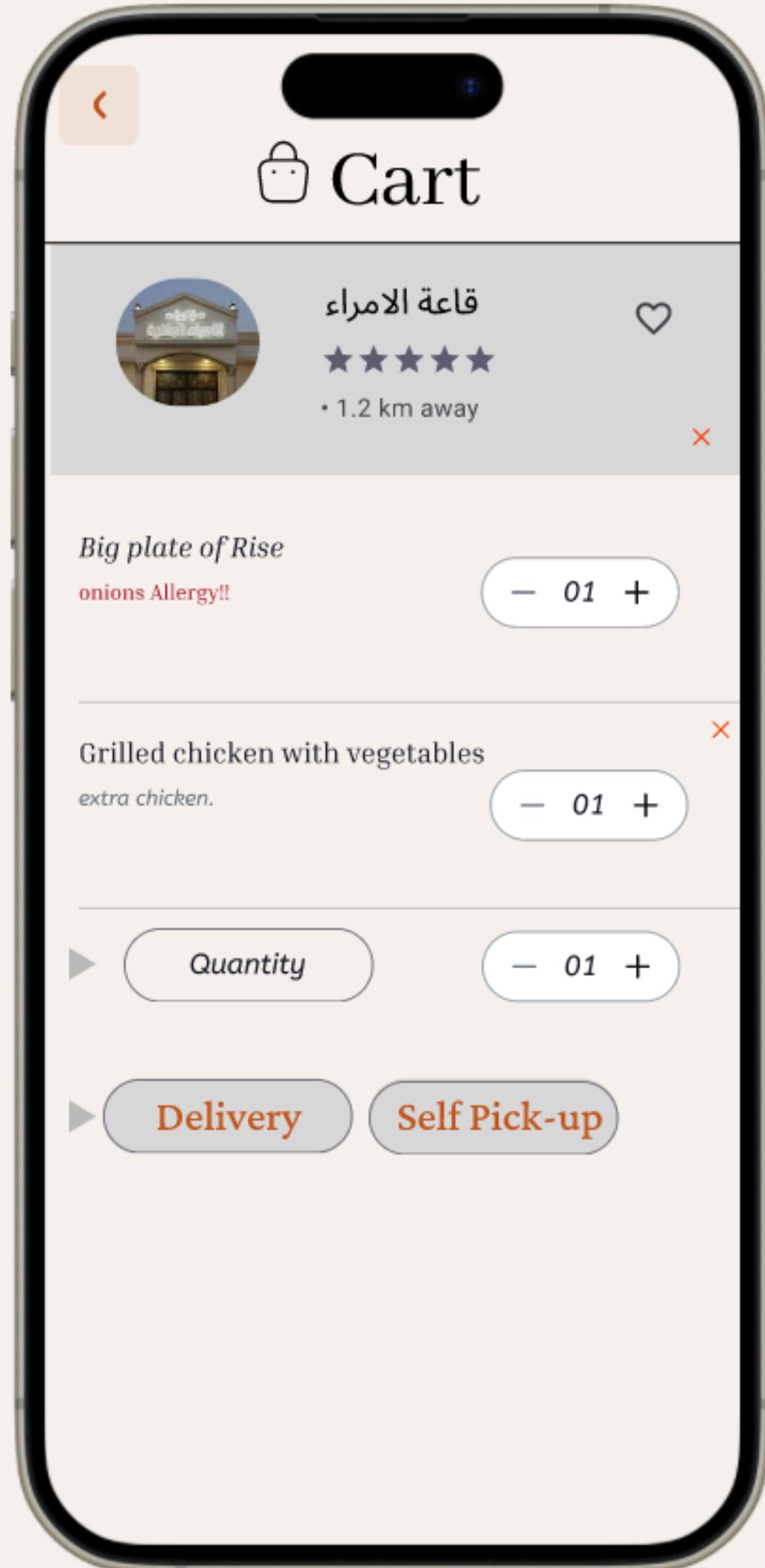
set the location for user and then provide different restaurants to chose



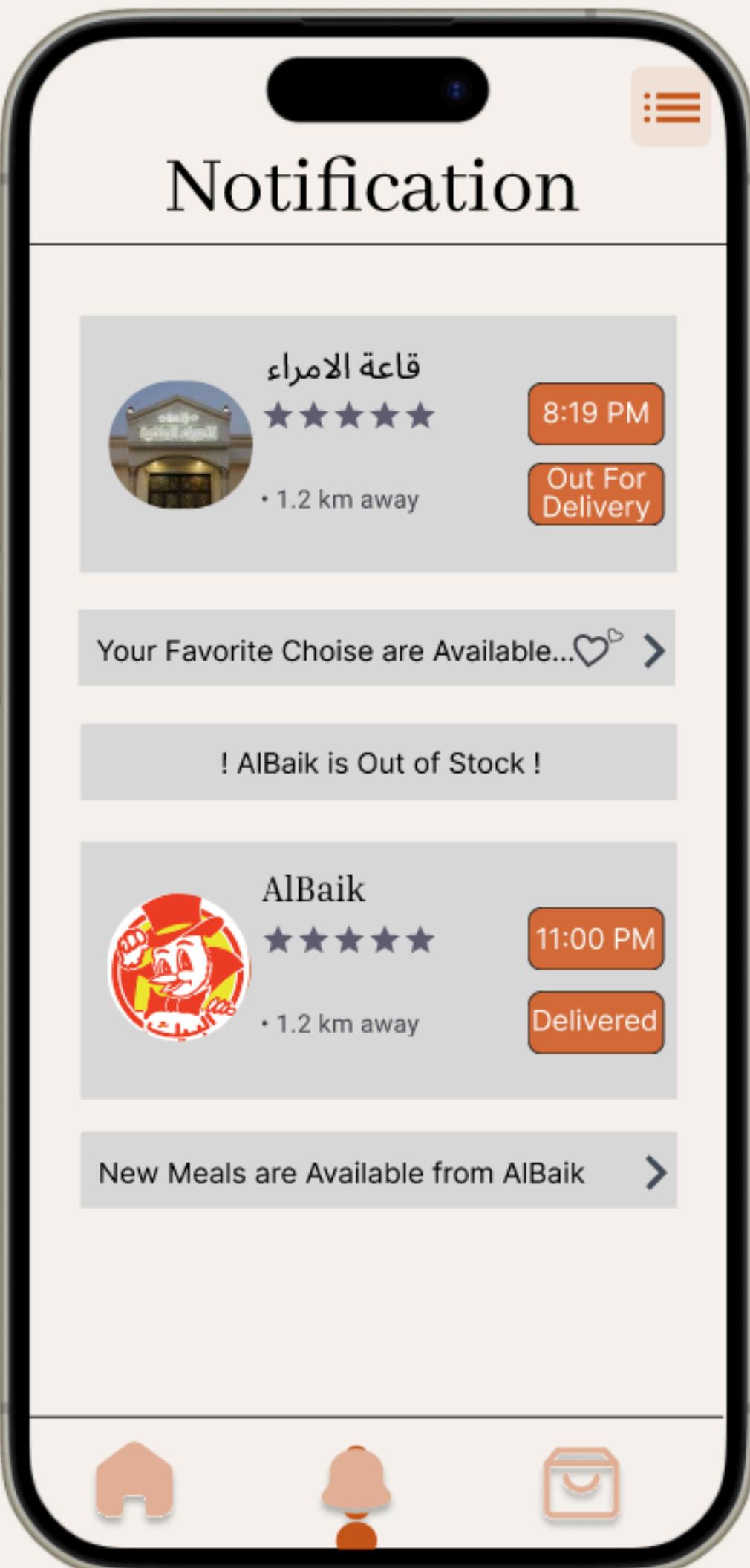
Option to chose the restaurant with the ability to chose the preferences of user to be notified if it was available and after display different dishes that the user can chose and the user can specify the amount of food that he need and after added it to the cart and then chose the way to deliver wither if it was delivery or self pick-up



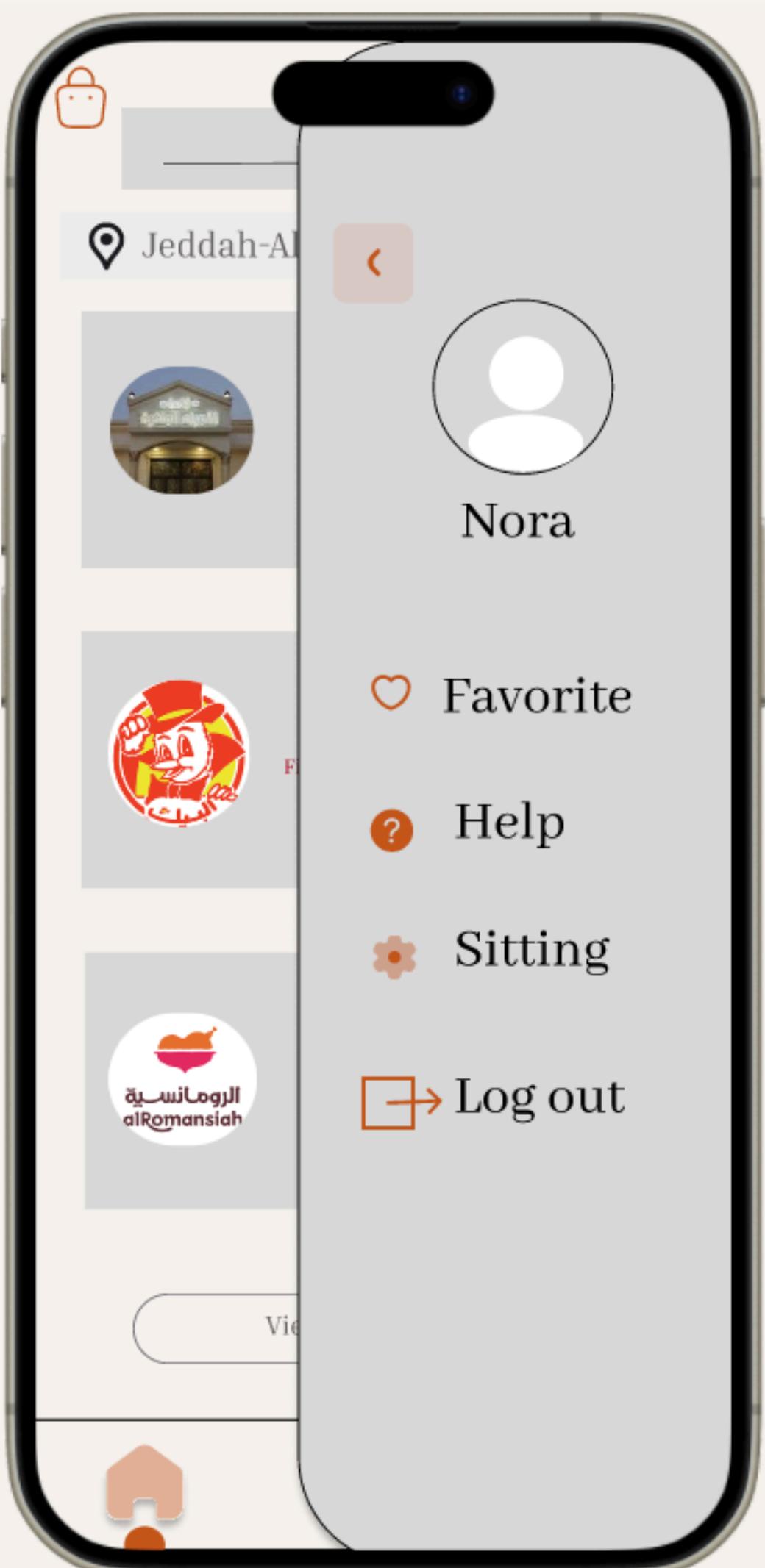
When choosing a delivery method, you must schedule when you want the food delivered.



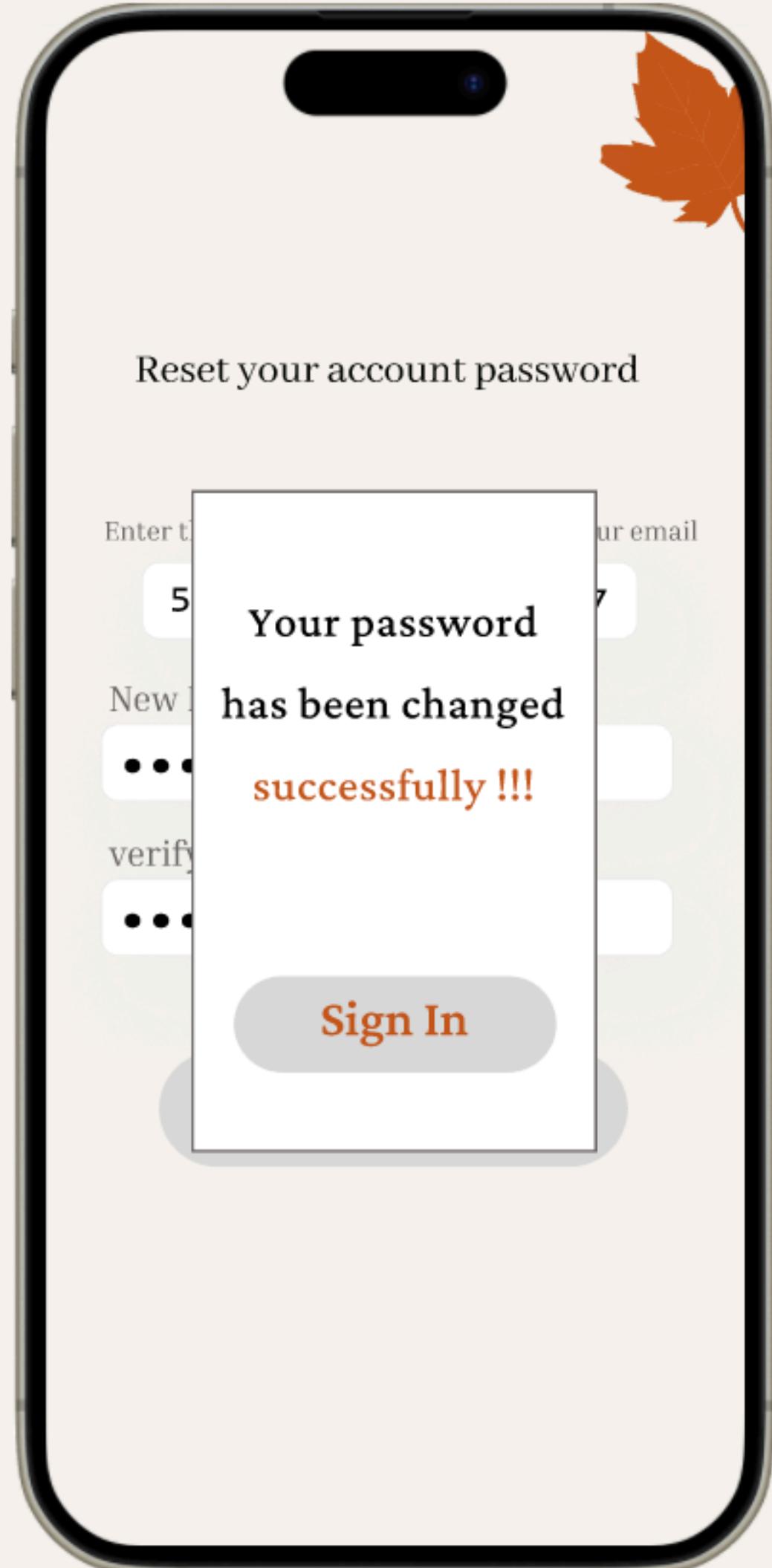
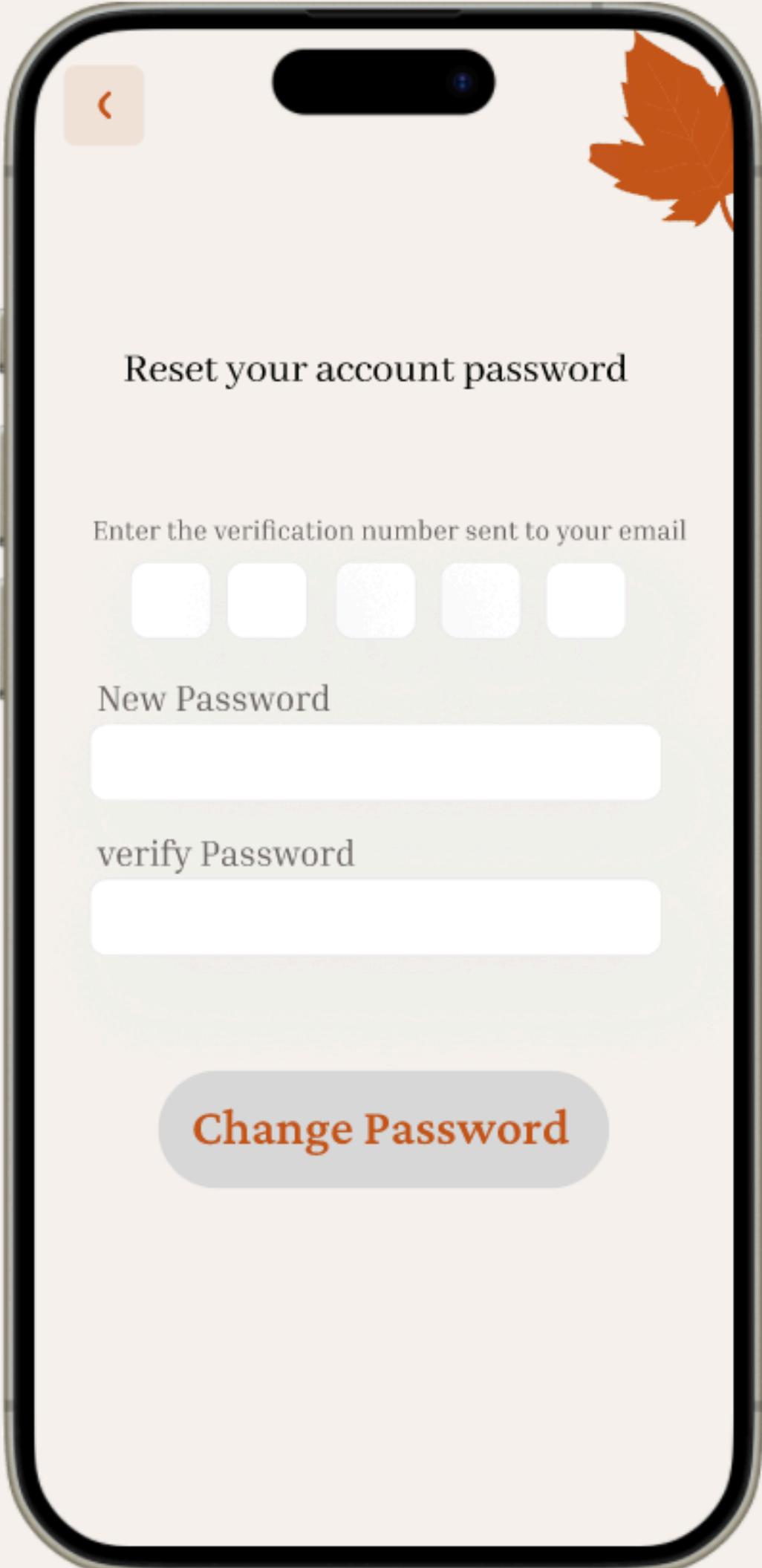
If the customer chooses delivery from the distribution point, the nearby distribution points will be displayed, and the customer will press the order button.



The notification page will inform the user about the state of his order and provide a notification if your favorite is available. Order history will provide information about all the previous orders and the order in progress



Display the customer profile



This page will offer an option to reset the password and after display a message if it was successfully changed

The Figma link for our project is:

<https://www.figma.com/design/SziMGvXG6hzgbxGR8oMEqk/Untitled?node-id=0-1&t=2YcqkhmvGc5hxjtl-1>

15. Table of Tasks Assignment 1&2

The Members	The Tasks
Joud Alahmadi	<ul style="list-style-type: none">-Writing Target Users-Writing questions for survey-Writing List of Tasks-Working in Lab 3-Write the Description for figma application pages
Lama Alghamdi	<ul style="list-style-type: none">-Writing Project Title and Overarching Idea-Define questions for survey-Writing insights-Working in Lab 3-Working on our application pages in Figma
Ghaidaa Alshehri	<ul style="list-style-type: none">-Writing questions-Create Survey-Visualization of Survey's-Working in Lab 3-Working on our application pages in Figma
Nada Almutairi	<ul style="list-style-type: none">-Choose a project name-Writing problems-Raw Data-Working in Lab 3-Working on our application pages in Figma
Sara Bajarsh	<ul style="list-style-type: none">-Writing Data Collection-Writing Finding users-Writing List of Needs-Working in Lab 3-Create and link app pages in Figma-Working on our application pages in Figma