

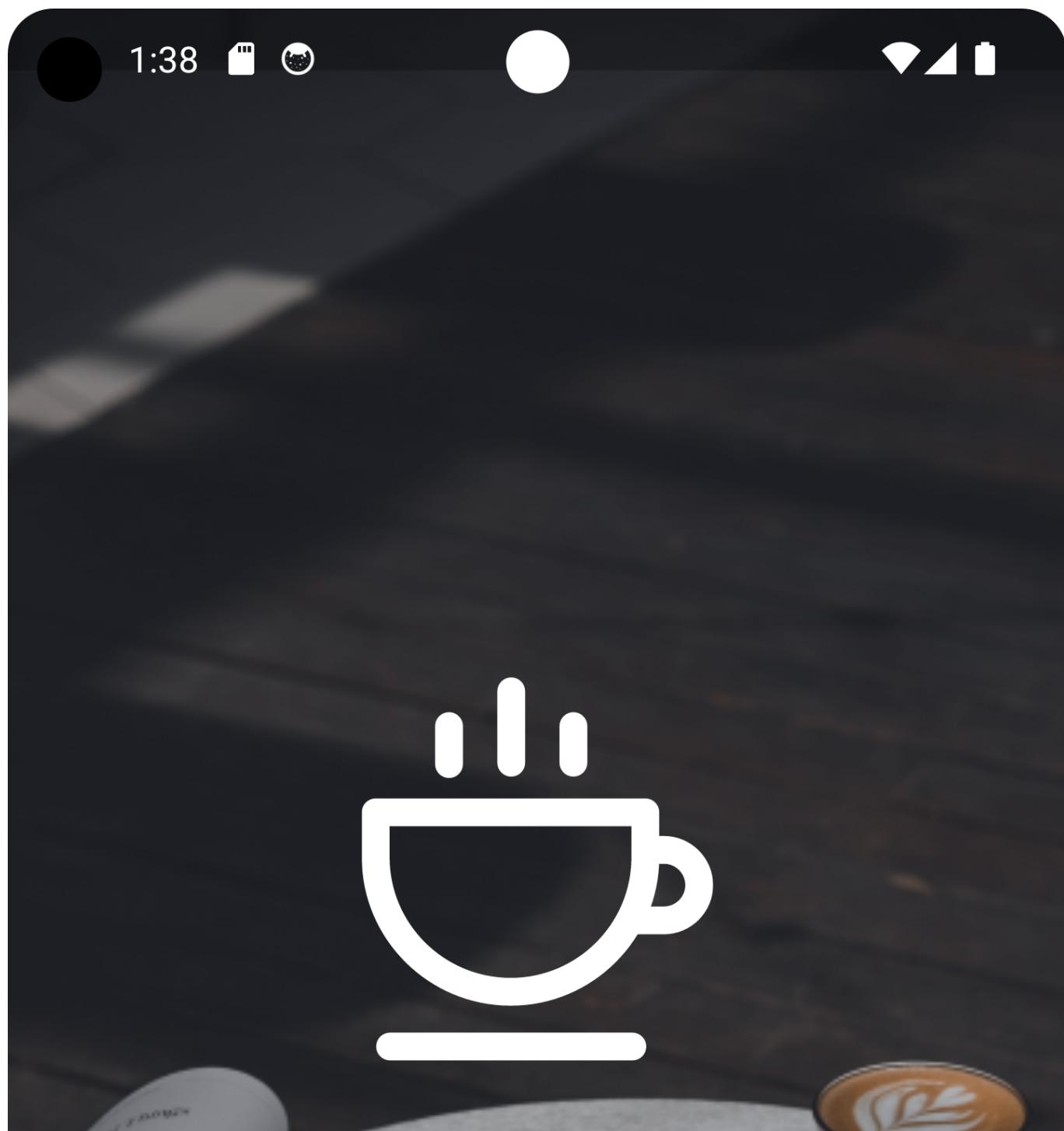
ORDINARY COFFEE HOUSE

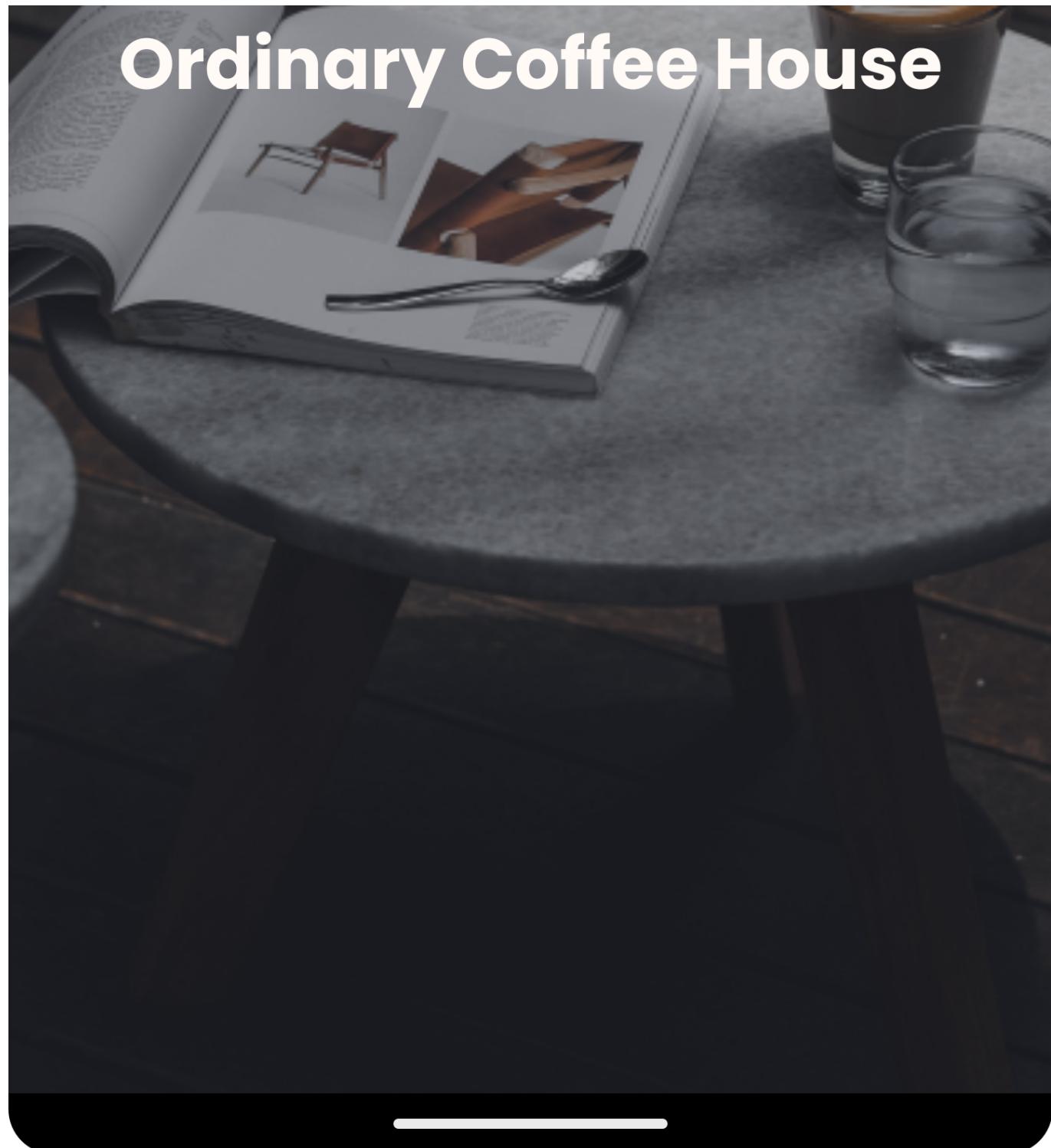
This is a midterm product for the course Mobile Device Application Development - CS426 at the University of Sciences, VNU-HCM, Vietnam.

Brief view

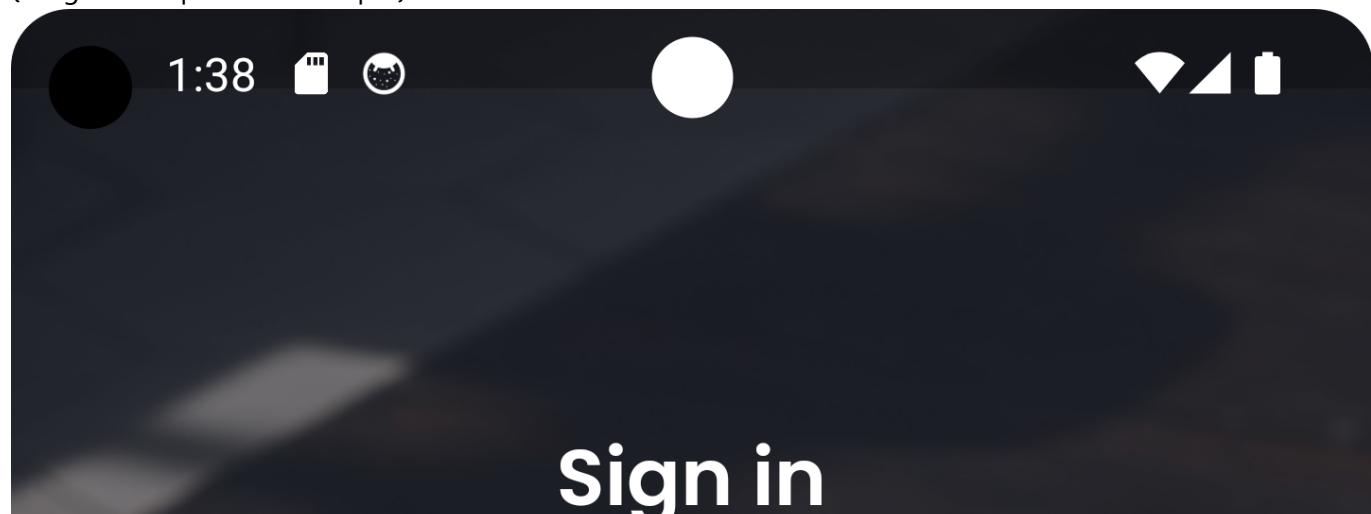
This application is UI based on this: [Design](#) Although it is an Android course, our instructor encourage us to try many different frameworks. Therefore, this project is built upon Flutter, a framework of Dart.

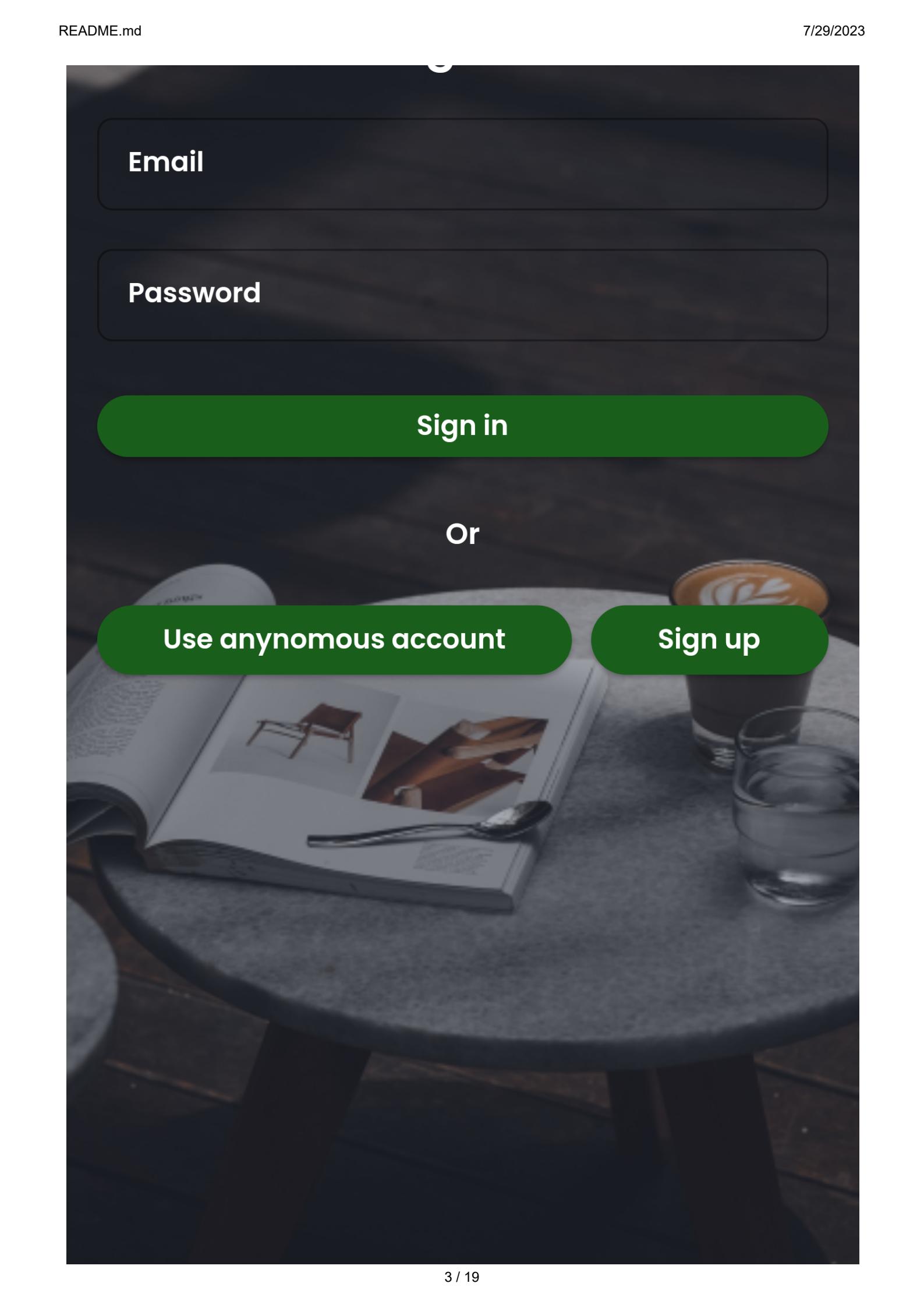
View of the application





{:height="100px" width="36px"}





Email

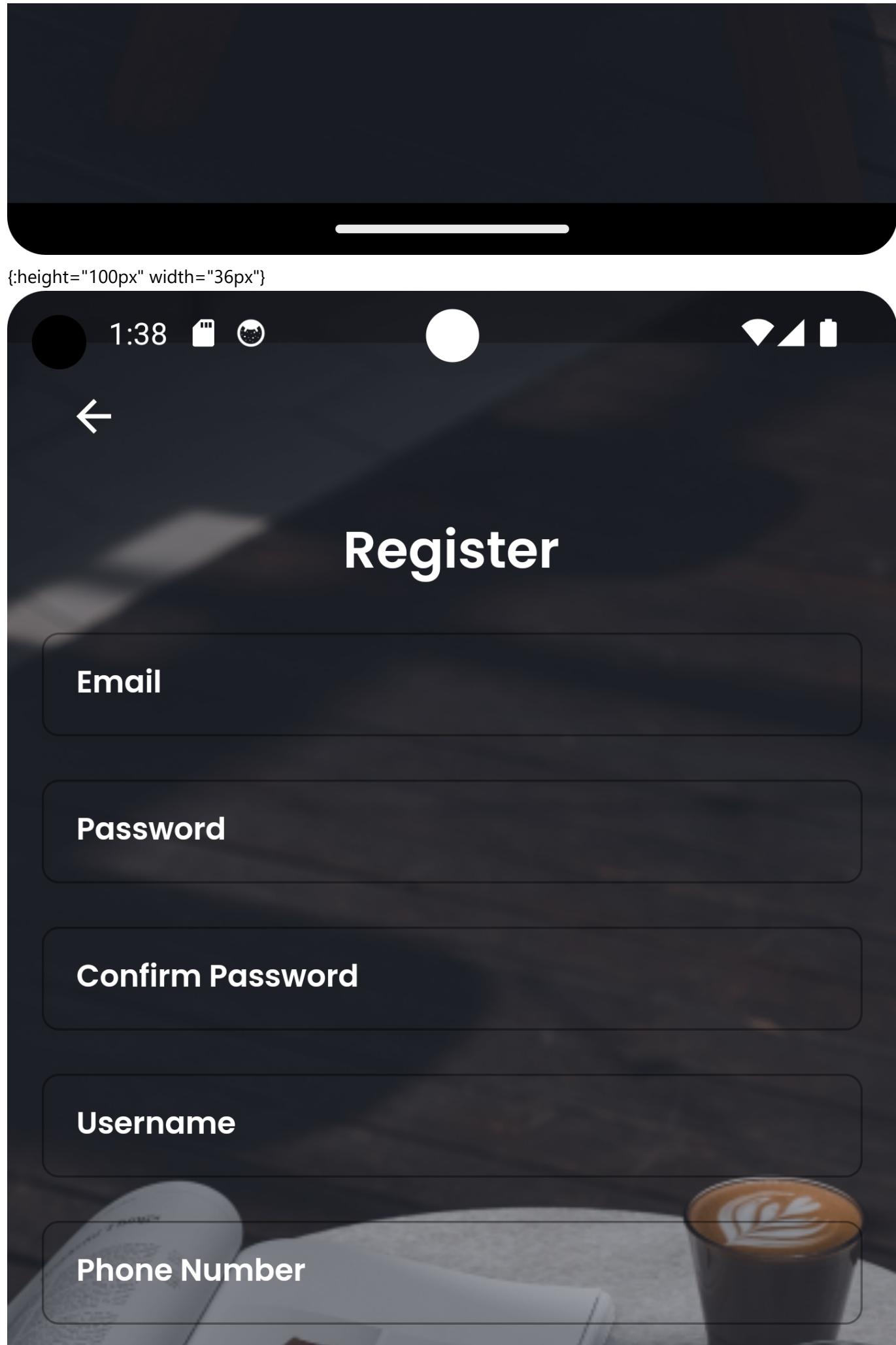
Password

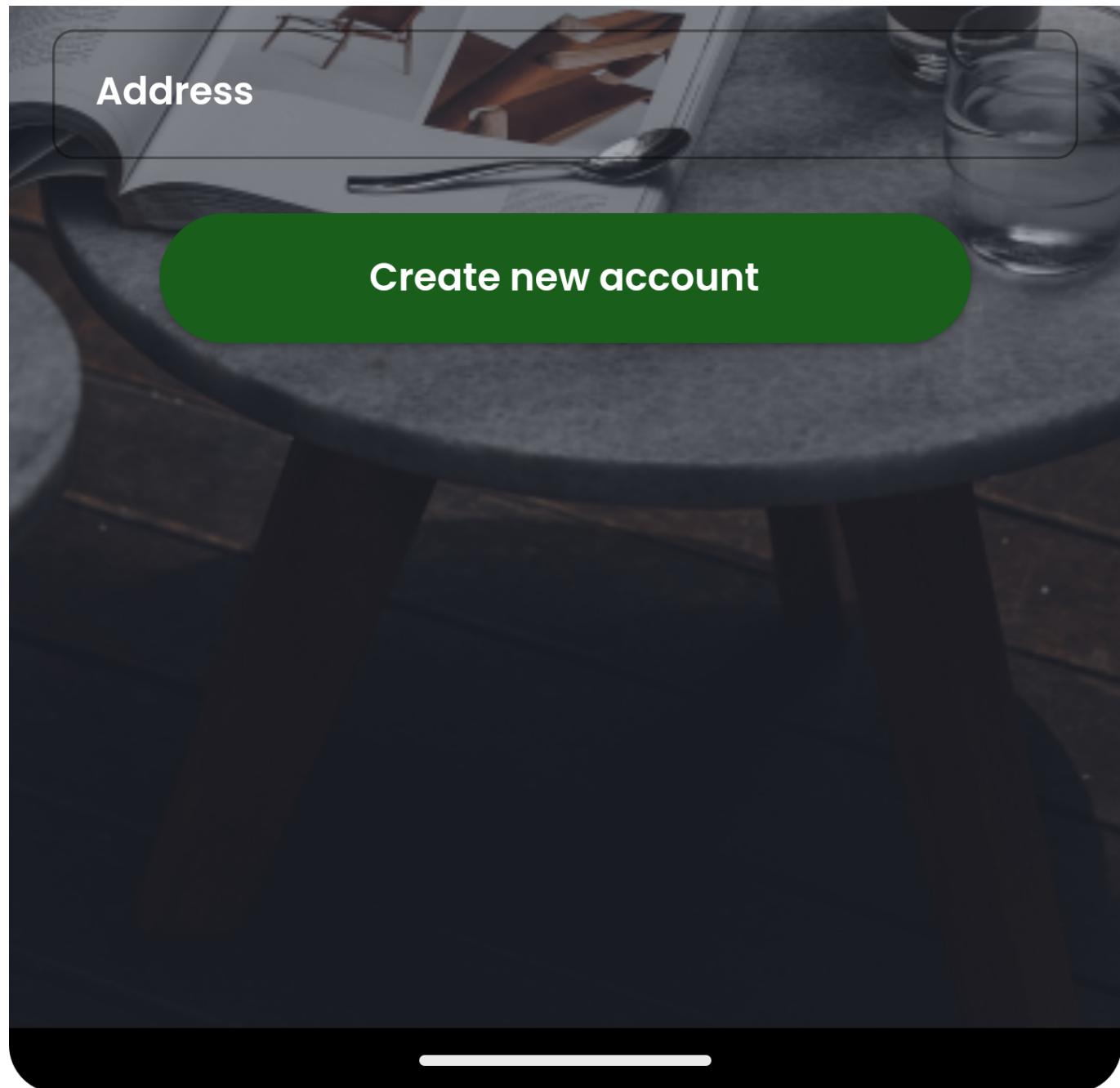
Sign in

Or

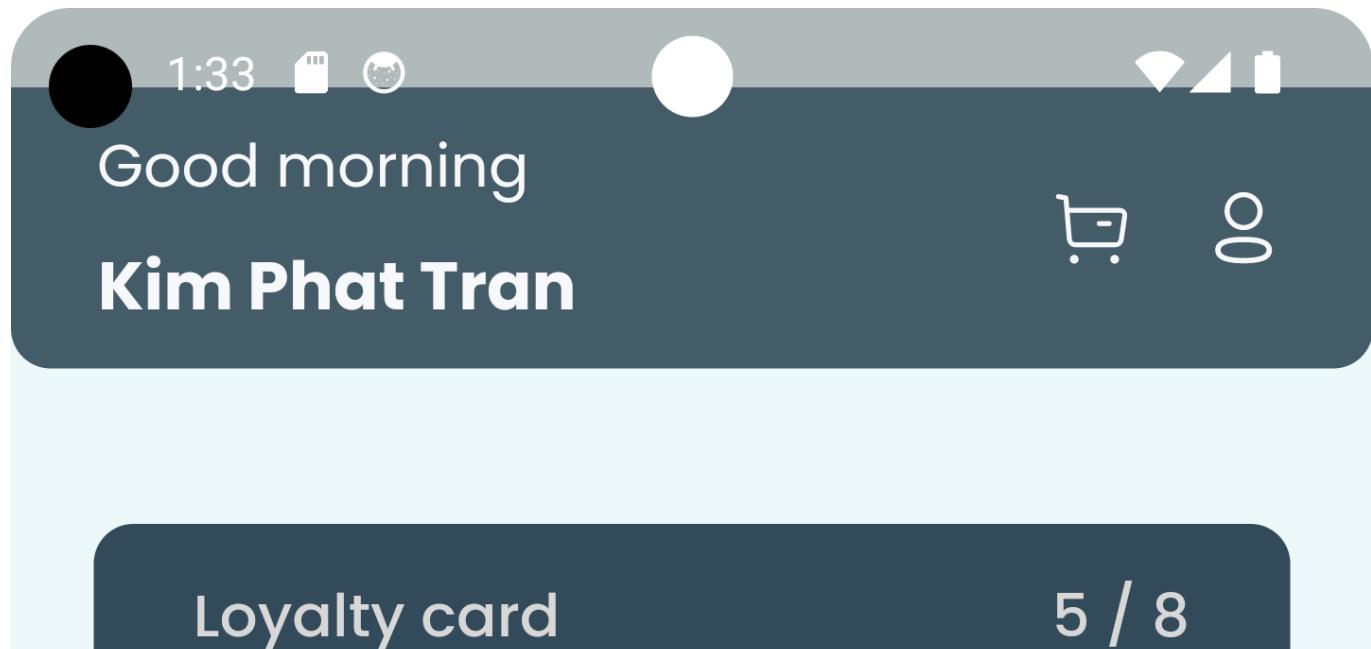
Use anonymous account

Sign up



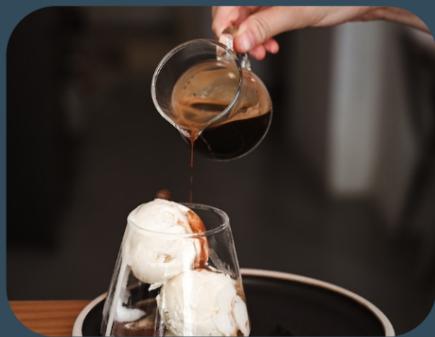


{:height="100px" width="36px"}





Spend your rewards!



Affogato



Americano

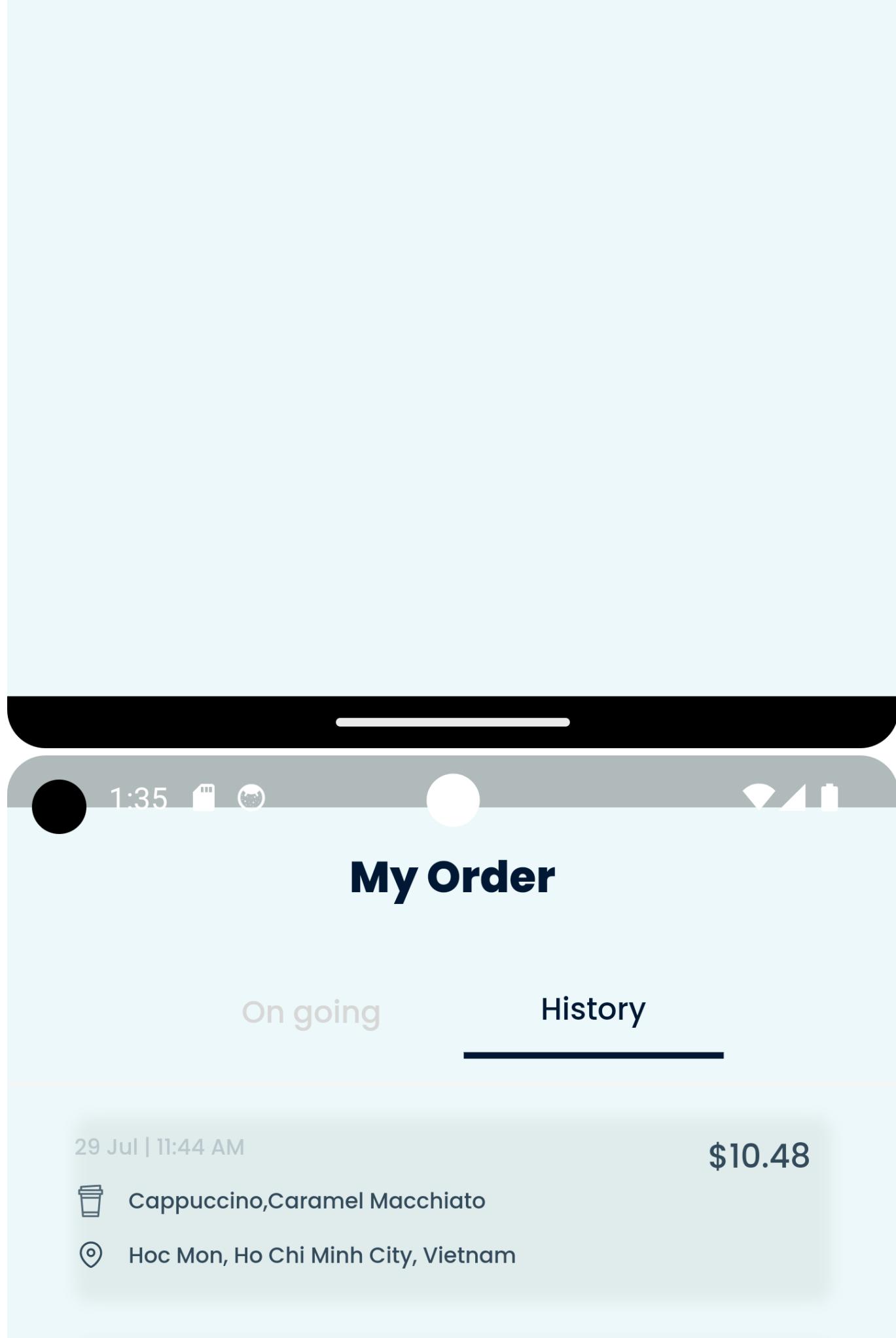
Choose your coffee



The screenshot shows a mobile application's profile screen. At the top, there is a navigation bar with a back arrow icon on the left and the word "Profile" in bold dark blue text on the right. Below the navigation bar, the screen has a light blue background. It displays four profile fields, each consisting of an icon in a grey circle, a label in light grey text, and a value in dark blue text. To the right of each value is a small grey edit icon. At the bottom of the screen is a large orange button with the text "Sign out" in white.

	Username	Kim Phat Tran	
	Phone number	123-456-8888	
	Email	trankimphat@gmail.com	
	Address	Hoc Mon, Ho Chi Minh City, Vietnam	

Sign out



29 Jul | 11:44 AM \$9.98

☕ Affogato,Caramel Macchiato

📍 Hoc Mon, Ho Chi Minh City, Vietnam

29 Jul | 11:41 AM \$23.73

☕ Cold Brew,Espresso Con Panna,Caramel Macchiato

📍 Hoc Mon, Ho Chi Minh City, Vietnam

28 Jul | 16:25 PM \$4.99

☕ Americano

📍 Hoc Mon, Ho Chi Minh City, Vietnam

28 Jul | 16:18 PM \$2.00

☕ Cold Brew

📍 Hoc Mon, Ho Chi Minh City, Vietnam

28 Jul | 16:16 PM \$8.98

☕ Cappuccino

📍 Hoc Mon, Ho Chi Minh City, Vietnam

28



📍 Hoc Mon, Ho Chi Minh City, Vietnam



Details



A coffee-based dessert made by pouring a shot of espresso over a scoop of gelato.

Affogato

- 4 +

Shot

Single

Double

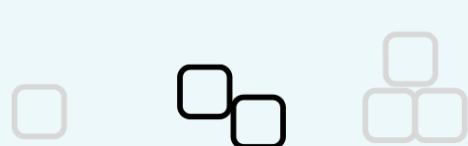
Select



Size



Ice



Total Amount

\$26.95

Add to cart

1:34



Rewards

Loyalty card

5 / 8



My Points:

My Points:

91795

Redeem drinks



History Rewards

Item	Date	Points
Cappuccino	29 Jul 11:47 AM	+ 15 Pts
Americano	29 Jul 13:8 PM	+ 20 Pts
Cappuccino	29 Jul 11:44 AM	+ 15 Pts
Caramel Macchiato	29 Jul 11:44 AM	+ 30 Pts

Aff



pts

1:35



←

Redeem

12 / 19

Drinks

Freeship

Discount



Latte

31.12.2023

1770 pts



Cappuccino

31.12.2023

1760 pts



Iced Coffee

31.12.2023

1120 pts



Mocha

31.12.2023

1780 pts



Cappuccino

31.12.2023

1760 pts



Iced Coffee



1120 pts

31.12.2023

**Espresso**

1750 pts

31.12.2023



1:37



My Cart

**Affogato**

double | iced | large | normal ice

\$26.95

x 4

**Americano**

single | iced | medium | normal ice

\$2.99

x 1

**Best Discount Option Applied**

Discount 60%

31.12.2023

CODE: 88116

Freeshipping Applied



Free shipping

31.12.2023

CODE: 5C4BA

Shipping Fee:

+ \$2.00

Discount:

-\$19.96

Total Price

\$11.98



Check out

1:37





Order Success

Your order has been placed successfully.

For more details, go to my orders.



Track My Order



How to run

You can either:

1. Clone this repository.
2. Open the project in Android Studio.
3. Run `flutter pub get` in the terminal.
4. Run `flutter run` in the terminal.

or:

1. Download the apk file in the build/app/outputs/flutter-apk folder.
2. Install it on your Android device or run it in Android Studio.

Interesting features

1. Using BLoCs to manage internal state and Data Repository to store data and interact with BloCs.
2. Applying 3-tiers architecture in managing states between widgets
3. Firebase Firestore for storing users and system information.
4. Firebase Authentication for authenticating users.

Extra Requirements

1. End-users must be authenticated, including login and sign up, to use this application.
2. Accounts' information will be preserved in cloud storage.
3. Users log in and log out without worrying about losing their progress and history information.

Extra Features

1. Provide each coffee product a description.
2. Hide the bottom navigation bar when scrolling down.
3. The cold drink has more customizable options than the hot one.
4. Provide various kinds of vouchers: DrinkReward (to exchange for free drink), DiscountVoucher and FreeshipVoucher in the redeem reward section.

5. Showing a list of free drinks when owner account has at least one of those DrinkRewards he exchanged as a form of a carousel in HomeView: a. DrinkReward can be presented as FreeCoffeeProduct in Order Details, the rule is you can customize whatever you want but the number of drinks must always be 1. b. You can order multiple order items and use drink rewards to exchange drinks in the same cart. Any drink rewards that are currently in an unpaid cart will not be in the carousel list mentioned above.
6. If the owner has discount or / and free ship vouchers, in the order cart view, we will: a. Render list of order items with their prices, free drink is \$0.00. b. Automatically identify the best voucher option for discount as well as use free ship voucher if exists. Apply them to the price of the current cart. c. If a cart has only DrinkRedeem drink exchange, DiscountVoucher will not be applied, however FreeshipVoucher still.
7. Each change to the user data will be considered as a transaction to not losing information between multiple devices trying to access the account at the same time.
8. Authentication flow is integrated into the application: a. If you have an account, you can use email – password strategy to use this application. b. If not, you can use an default account (an account which I use to develop) to continue. c. If you want to sign up, you can use email – password strategy to create a new account. d. If you want to sign out, you can use the sign out button in the profile page.

References

- Dependency:
 1. flutter_svg: ^2.0.7
 2. flutter_bloc: ^8.1.3
 3. flow_builder: ^0.0.9
 4. const_date_time: ^1.0.2
 5. provider: ^6.0.5
 6. equatable: ^2.0.5
 7. uuid: ^3.0.7
 8. flutter_slidable: ^3.0.0
 9. carousel_slider: ^4.2.1
 10. firebase_core: ^2.15.0
 11. cloud_firestore: ^4.8.3
 12. json_annotation: ^4.8.1
 13. firebase_auth: ^4.7.2
- Dev Dependency:
 1. build_runner: ^2.4.6
 2. json_serializable: ^6.7.1
- Assets:
 1. All the images I used in this project were taken from this website.
 2. Poppins and DM Sans font are taken from Google Fonts.
- Architecture Idea:
 1. The 3-tiers architecture using BLoCs is proposed by Bloc official website.

2. Cloud Storage for Firebase Firestore is documented at this website.
3. Authentication Handling using Firebase Authentication is proposed by this project.
4. Using transaction when interact with Firestore is introduced by Using Firestore as a backend to your Flutter app.