

Senior Project II – Final Defence



Randevoo

Online Reservation Platform

Our Team



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I'm a Computer Science Student in Assumption University, my concentration is development. I specialize in mobile and web development. I love programming & design.



MENH KEO (XELL)

A Computer science student who have enthusiasm for technology and coding, mainly working in developing program and application.

What is Randevoo?

Rendezvous : (rändə,voo) means a meeting at an agreed time and place.

Connects customers to sellers throughout specific reservations.

Offers customers fully comprehensive products' specifications and locations.

An online reservation platform via mobile application.

Problems

1

Price

Is the most essential concern for every customer buying the online products.

2

Precision

Is another factor that most customers desire as their expectation.

3

No easy way exists

To reserve reservations with multiple stores via a single service.

Solutions

A mobile platform where customers can reserve reservations at nearby stores to



- 1 **Save Money**
When exploring & comparing.
- 2 **Save Time**
When found as expected, & as desired.
- 3 **Have Exclusivity**
When reserving to the store

Platforms

There will be two platforms for this service.



Mobile App



Web App



Mobile App

This platform will serve for all users to conduct their businesses

Web App

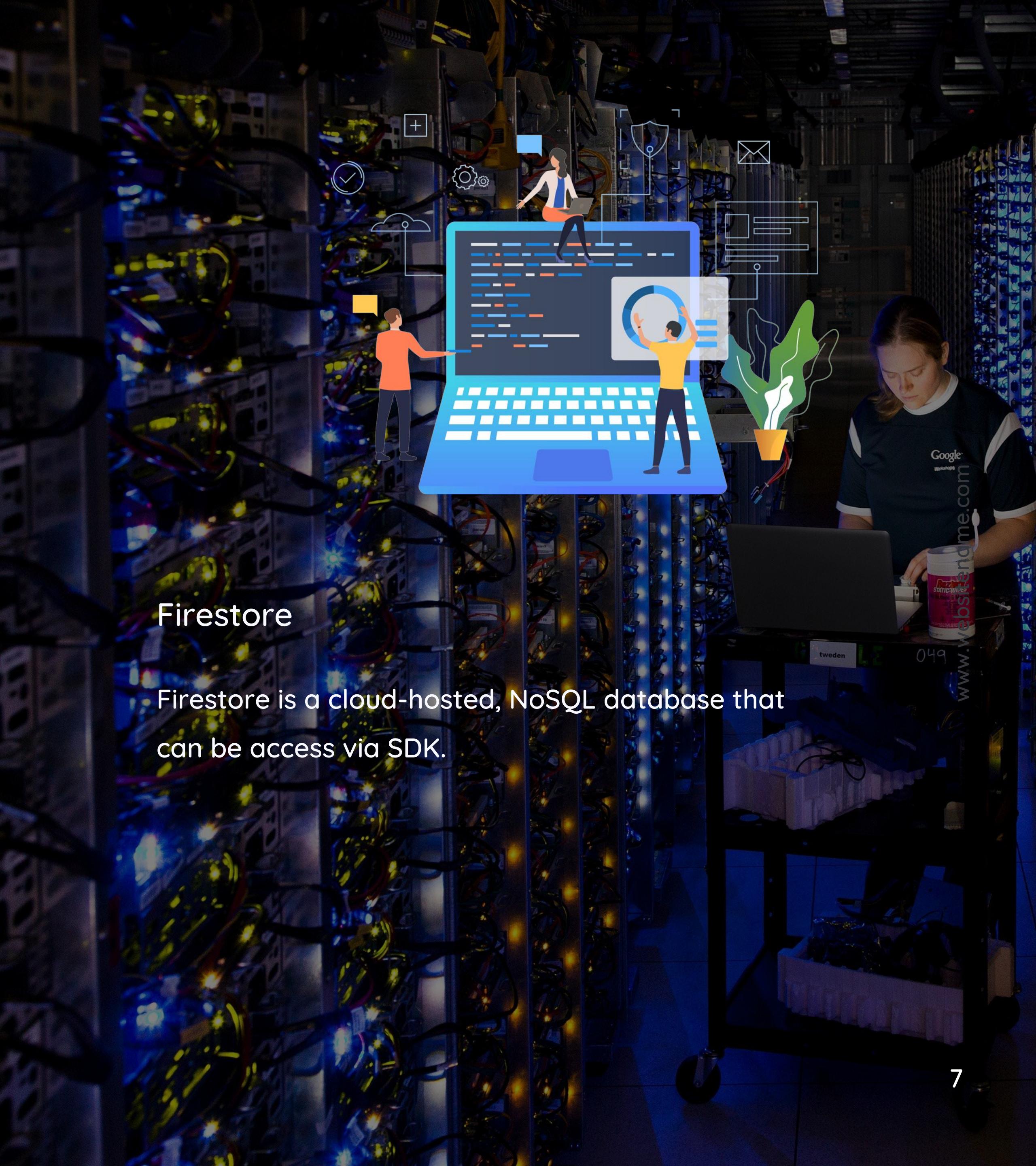
This platform will be used to monitor all users during the service.
And use to regulate, manage, and communicate with regular users

Database

Firestore will be the database for the application



Cloud Firestore



Firebase

• Firestore is a cloud-hosted, NoSQL database that can be accessed via SDK.

System Diagram



System Diagram

Platforms

1

Users

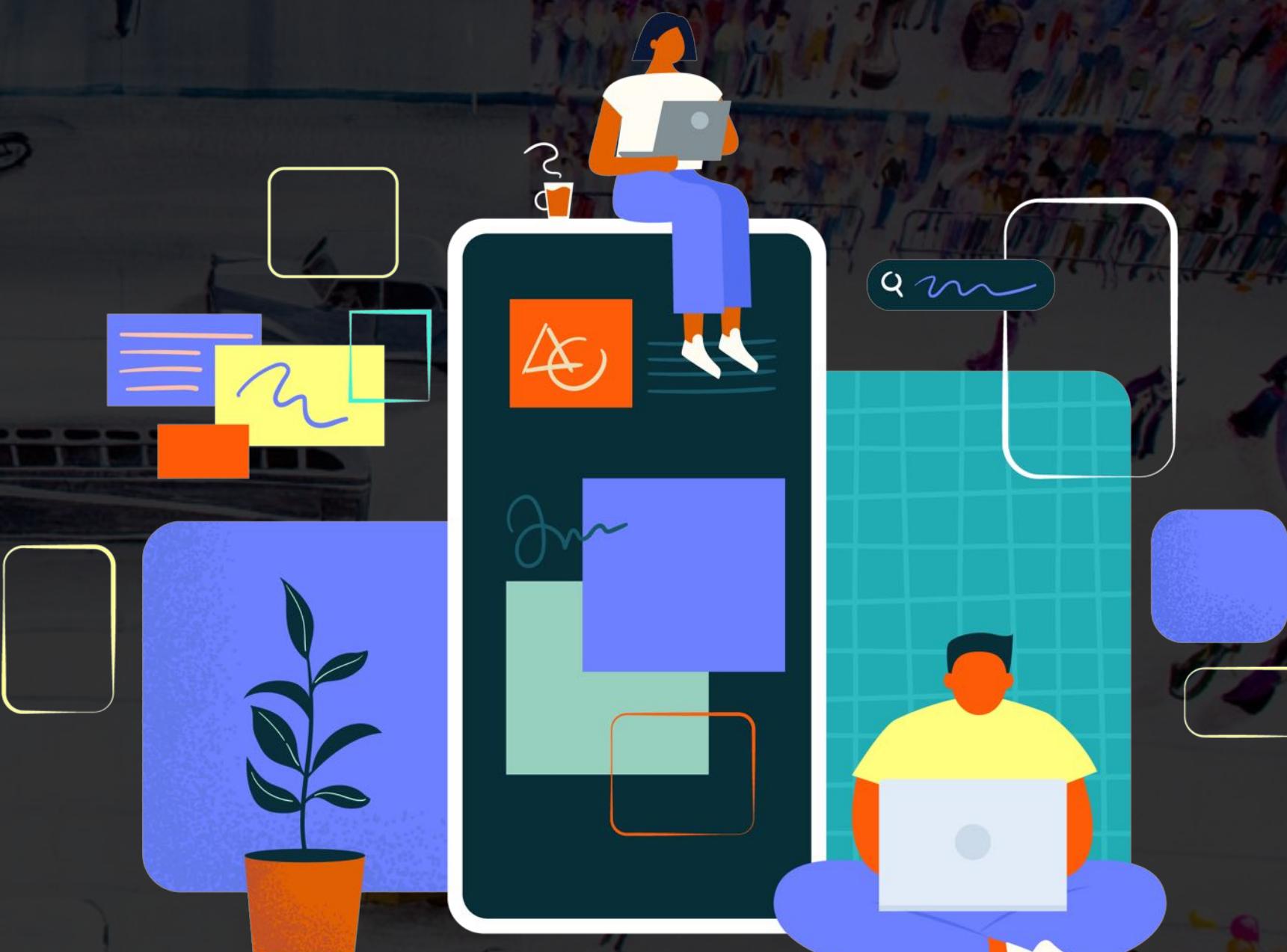


2

Administration



Users



Customers

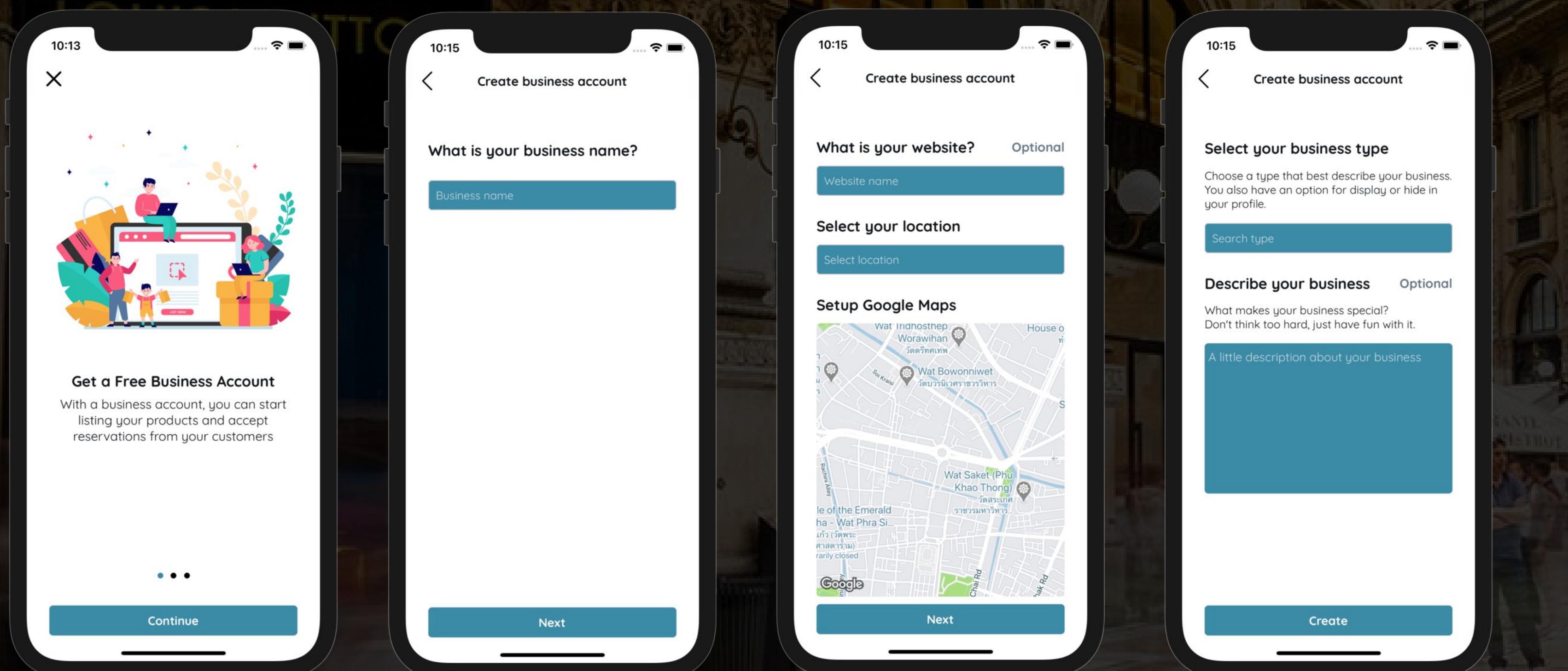
Which is the personal account to use for explore, browse, and discover products in the platform.

Business Owners

Link from personal account to a business account while sharing the same login and accessing features that can help grow the business

Business Owner

Create a business account

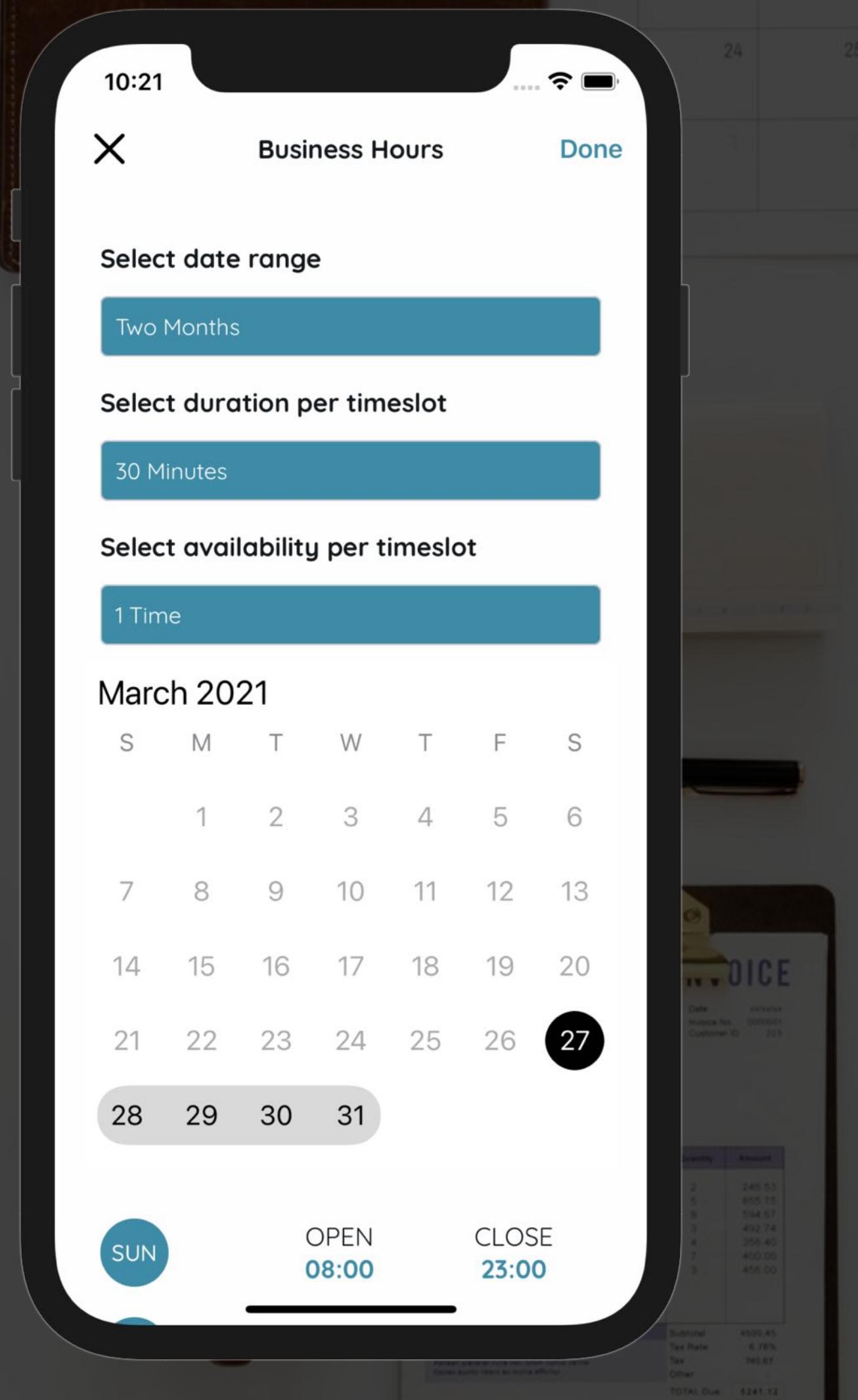


1 Follow the step by step process

2 Each user contain at most 2 business accounts

Business Owner

Set up business hour



1

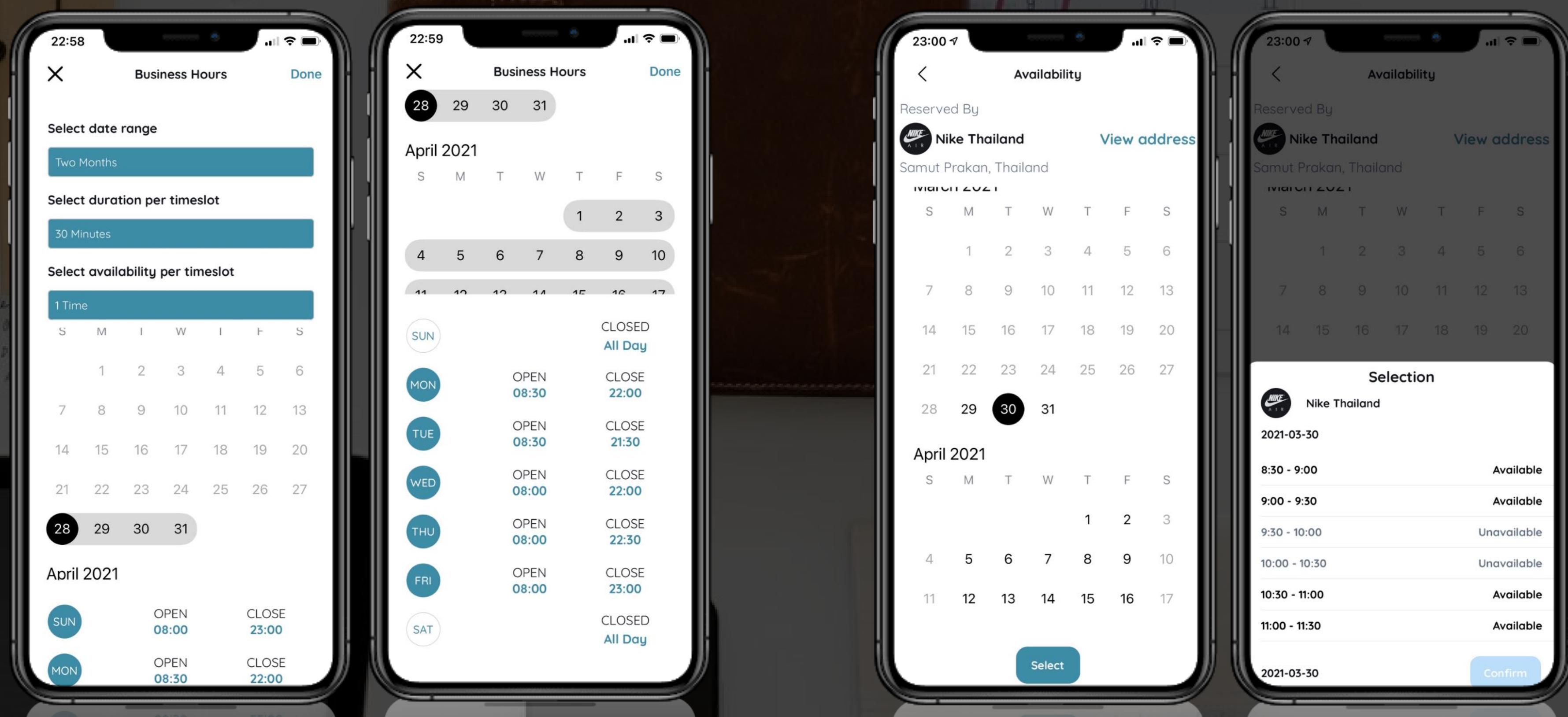
Business hour use to generate the reservation schedule for the store

2

Avoid manual reservation schedule creation that could cause human error

Business Owner

How reservation schedule is created



1

Example: on Tuesday

- Store open at 8:30
- Close at 22:00
- Duration per timeslot: 30 minutes
- Date Range: Two Months
- Availability per timeslot: 1

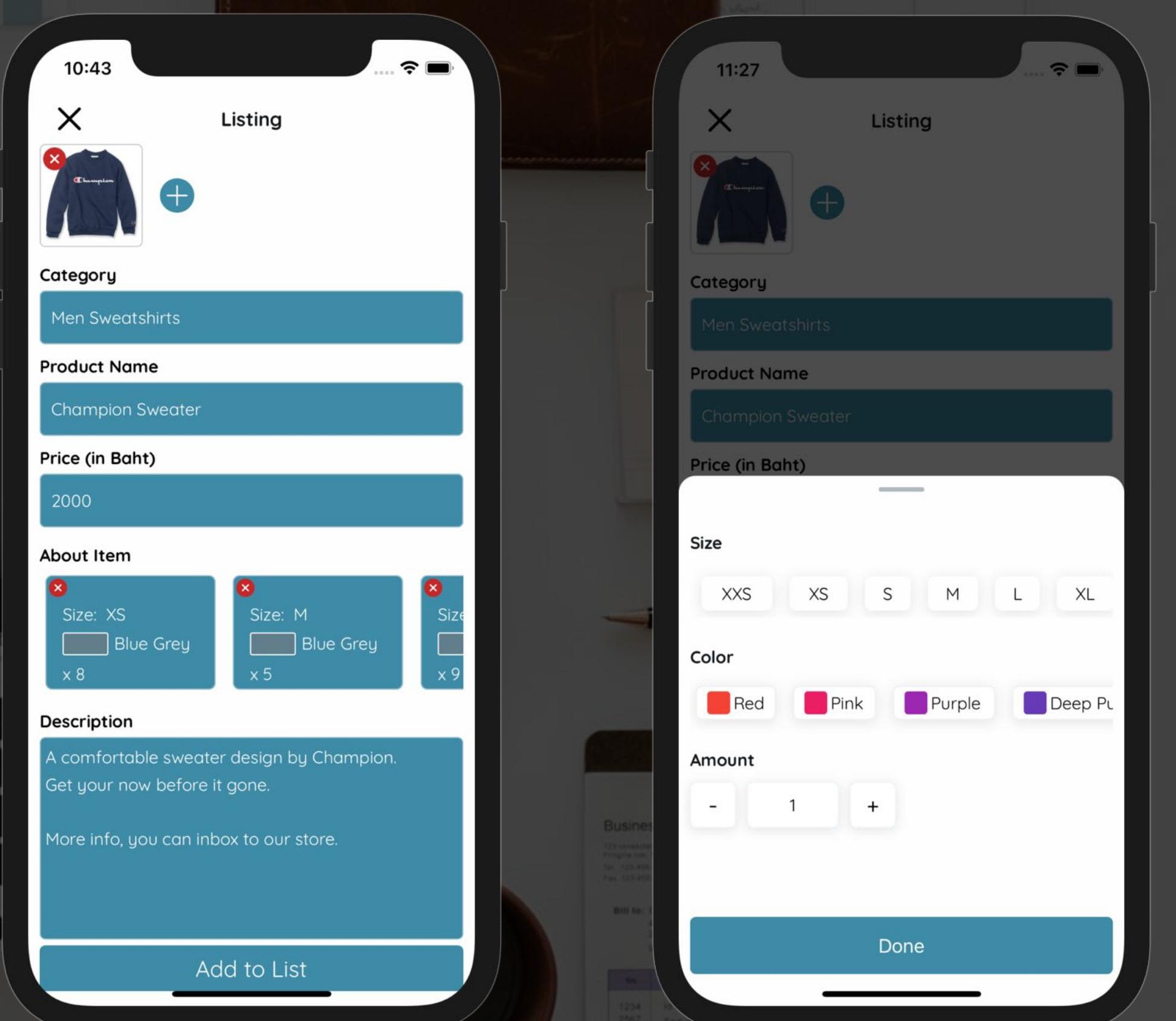
2

Generation:

- 8:30 – 9:00, availability: 1
- 9:00 – 9:30, availability: 1
- 9:30 – 10:00, availability: 1
- 10:30 – 11:00, availability: 1
- 11:00 – 11:30, availability: 1
- 20:30 – 21:00, availability 1
- 21:00 – 21:30, availability: 1
- 21:30 – 22:30, availability: 1

Business Owner

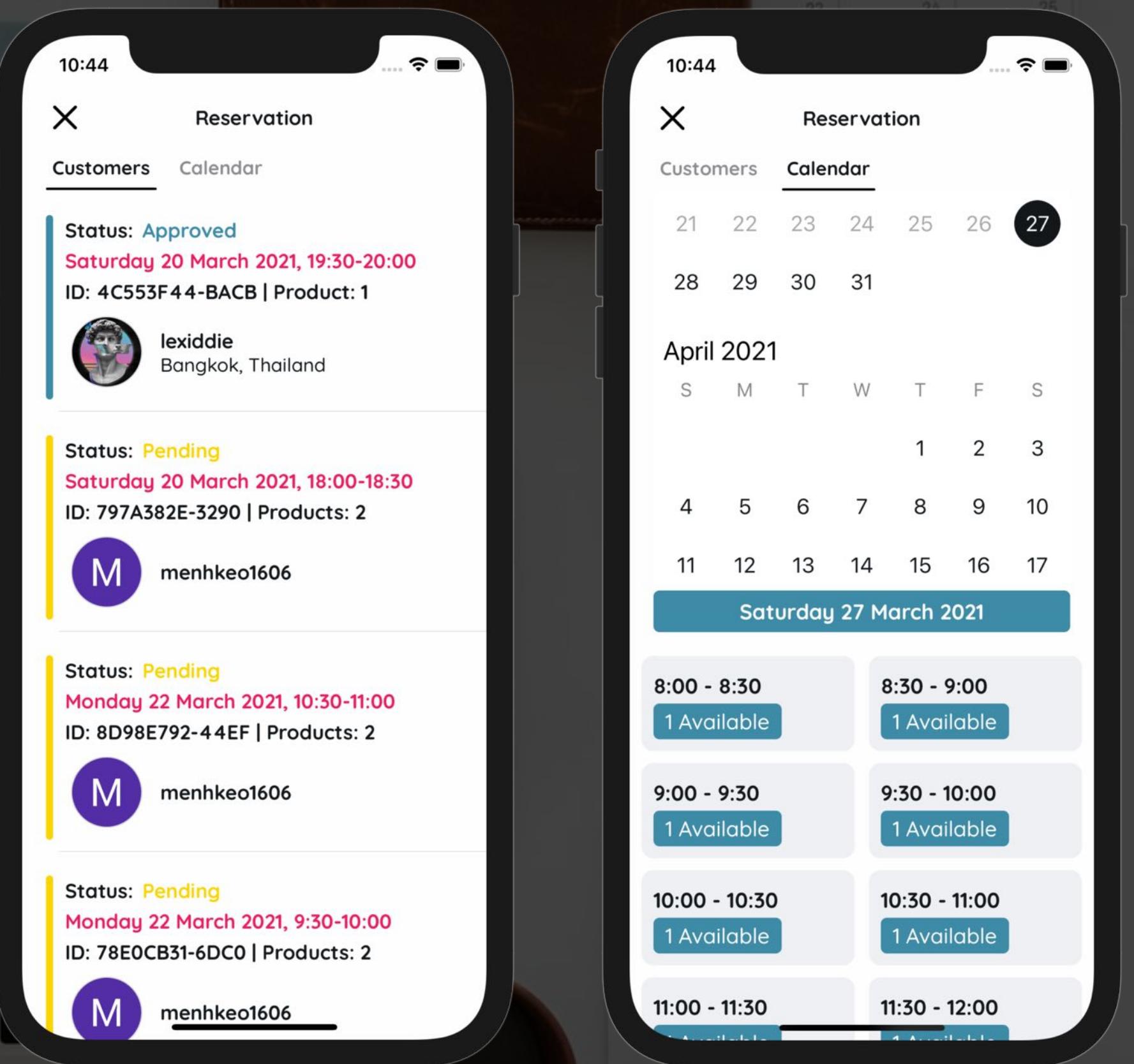
Listing a product



1 A product contain at most 10 images

2 Category, size and color are provide by the app

Business Owner Checking reservation

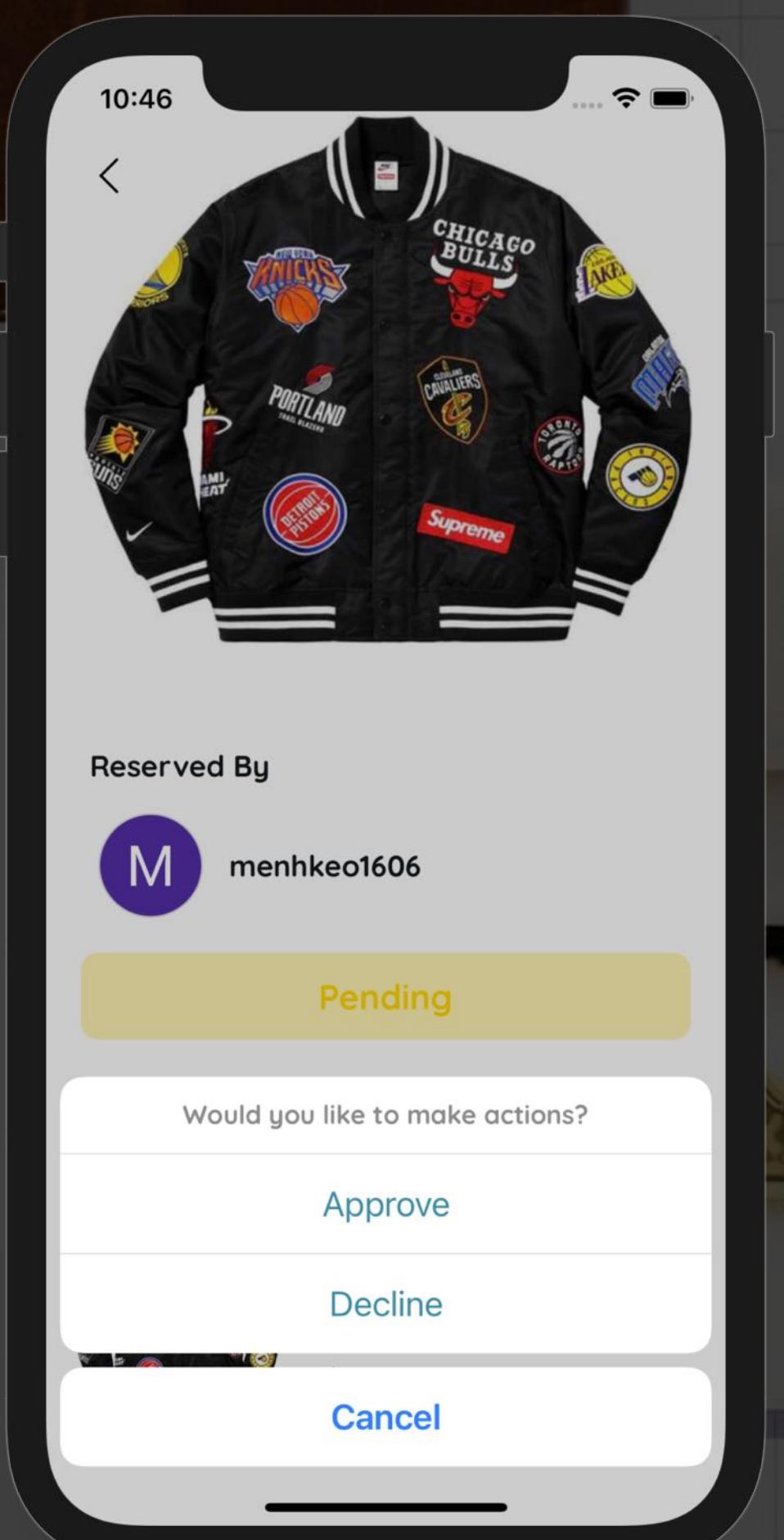


1 Checking reservation with latest request

2 Checking reservation by date

Business Owner

Reservation action

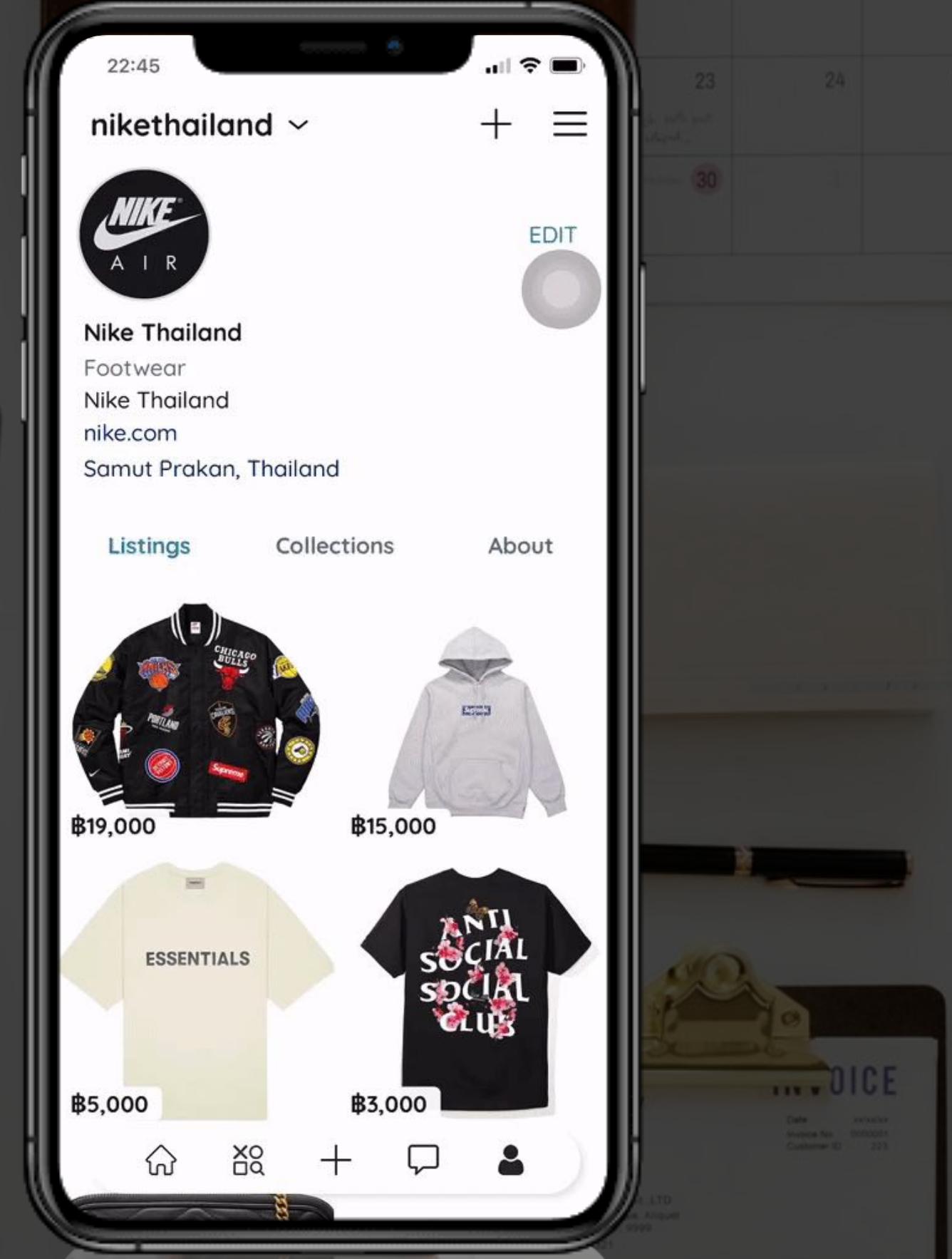


1 Approve or decline the reservation

2 Complete if the user come and check the product

3 Fail if the user never show up at the store

Business Owner Checking reservation by QR Code

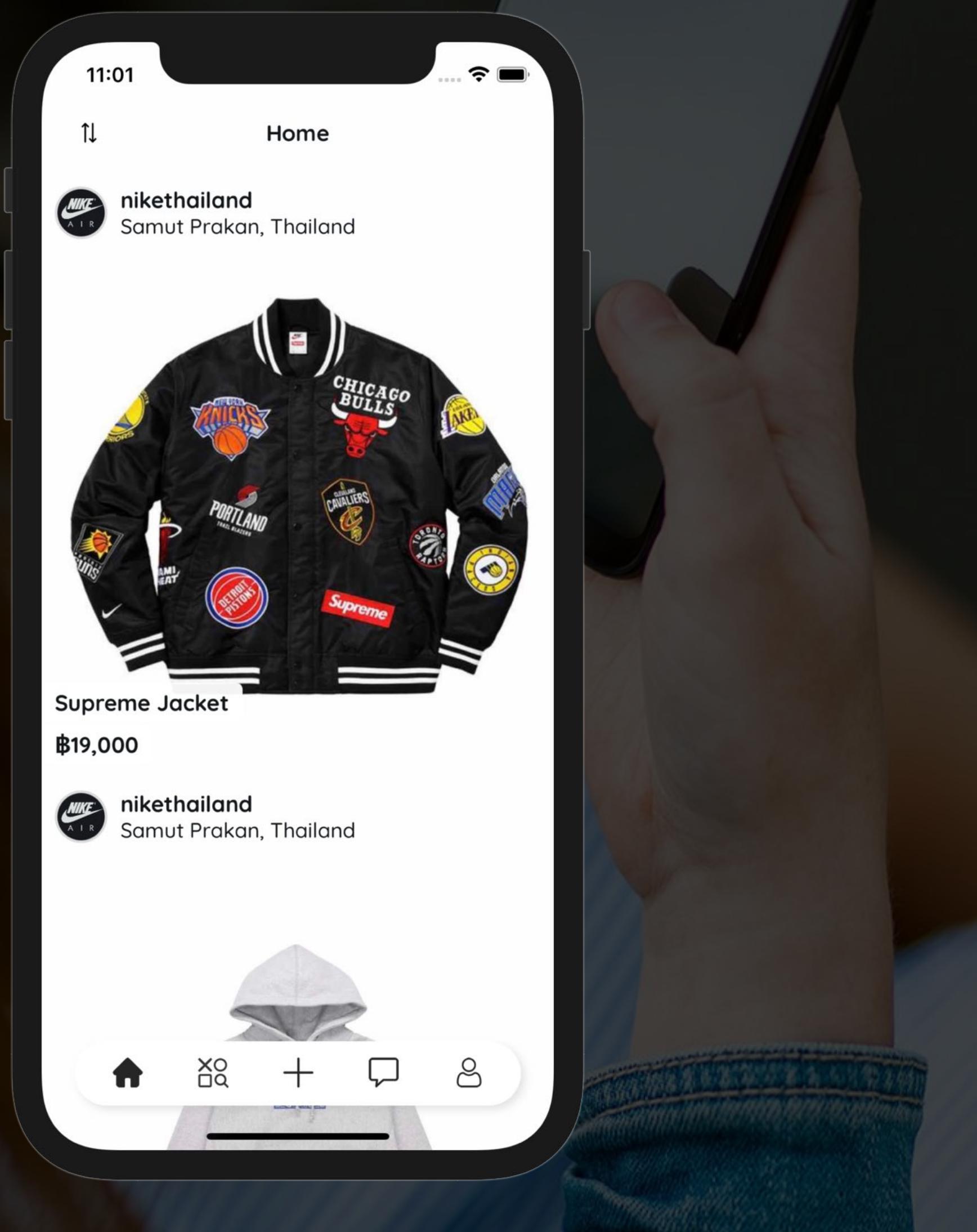


1

Use build-in QR Scanner to check customer reservation

Customer

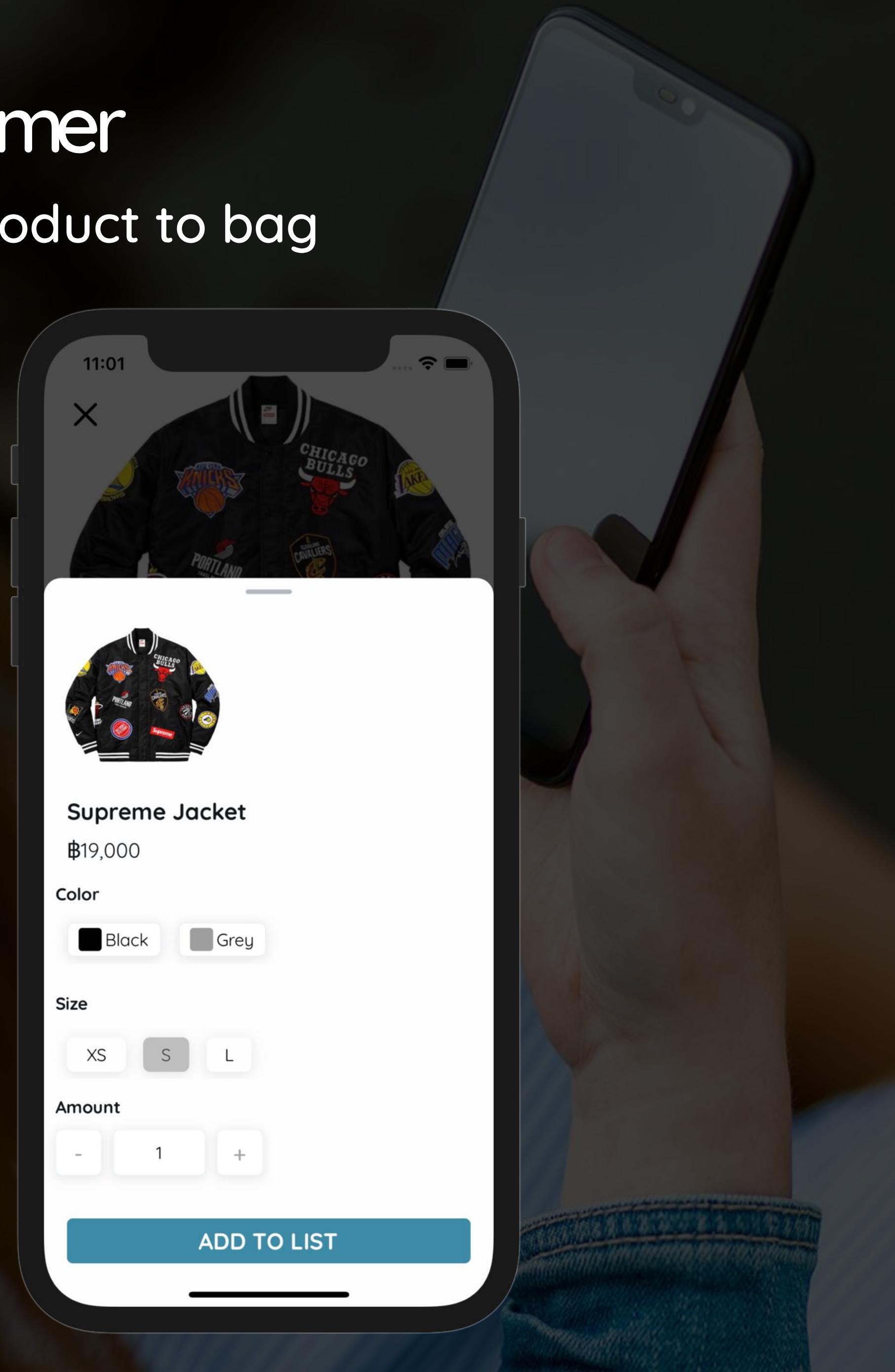
Explore product



- 1 Browse product at home screen
- 2 Filter the product by provided option

Customer

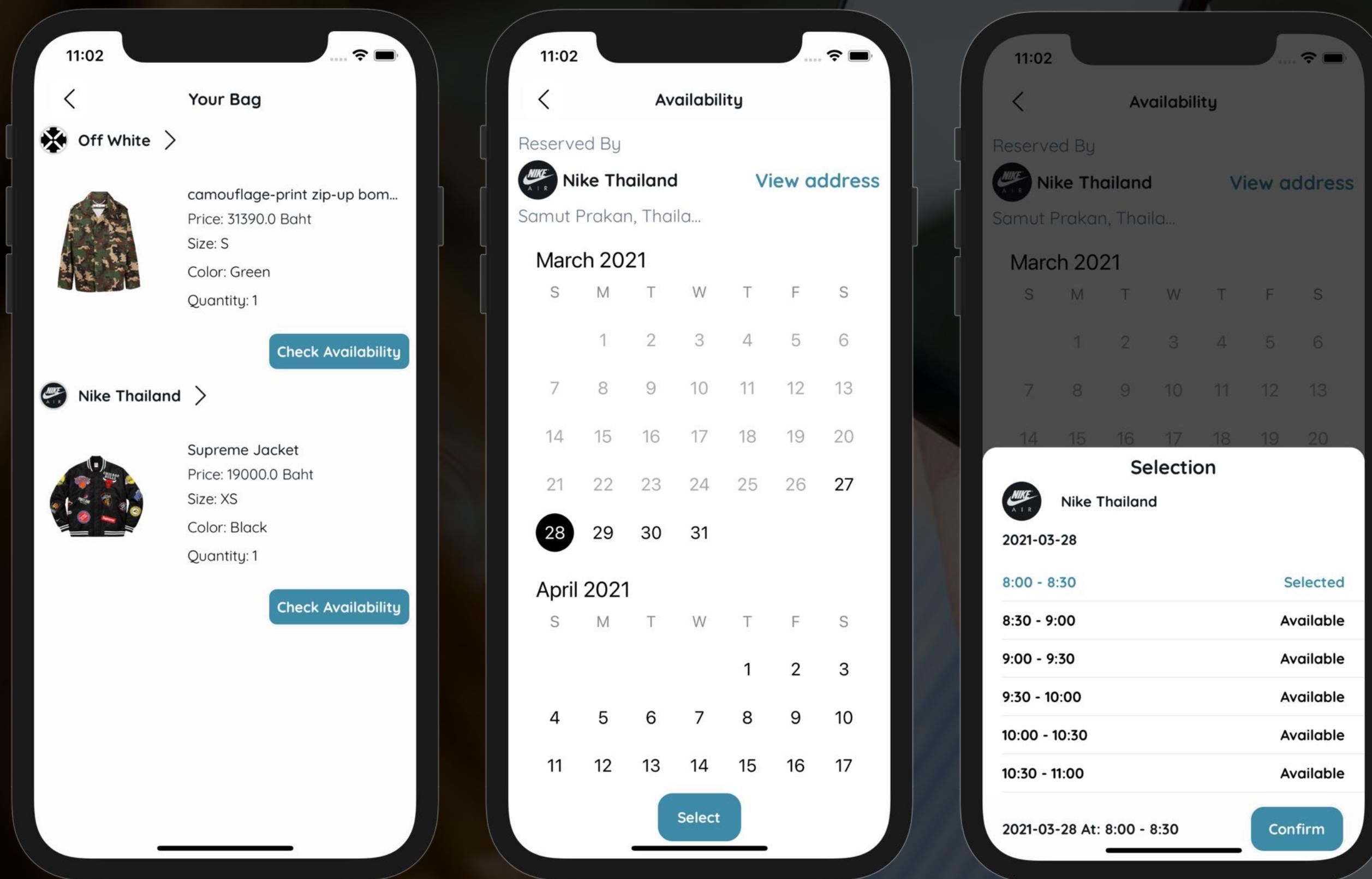
Add a product to bag



1

Add a product into the bag for checking out later

Customer Making a reservation

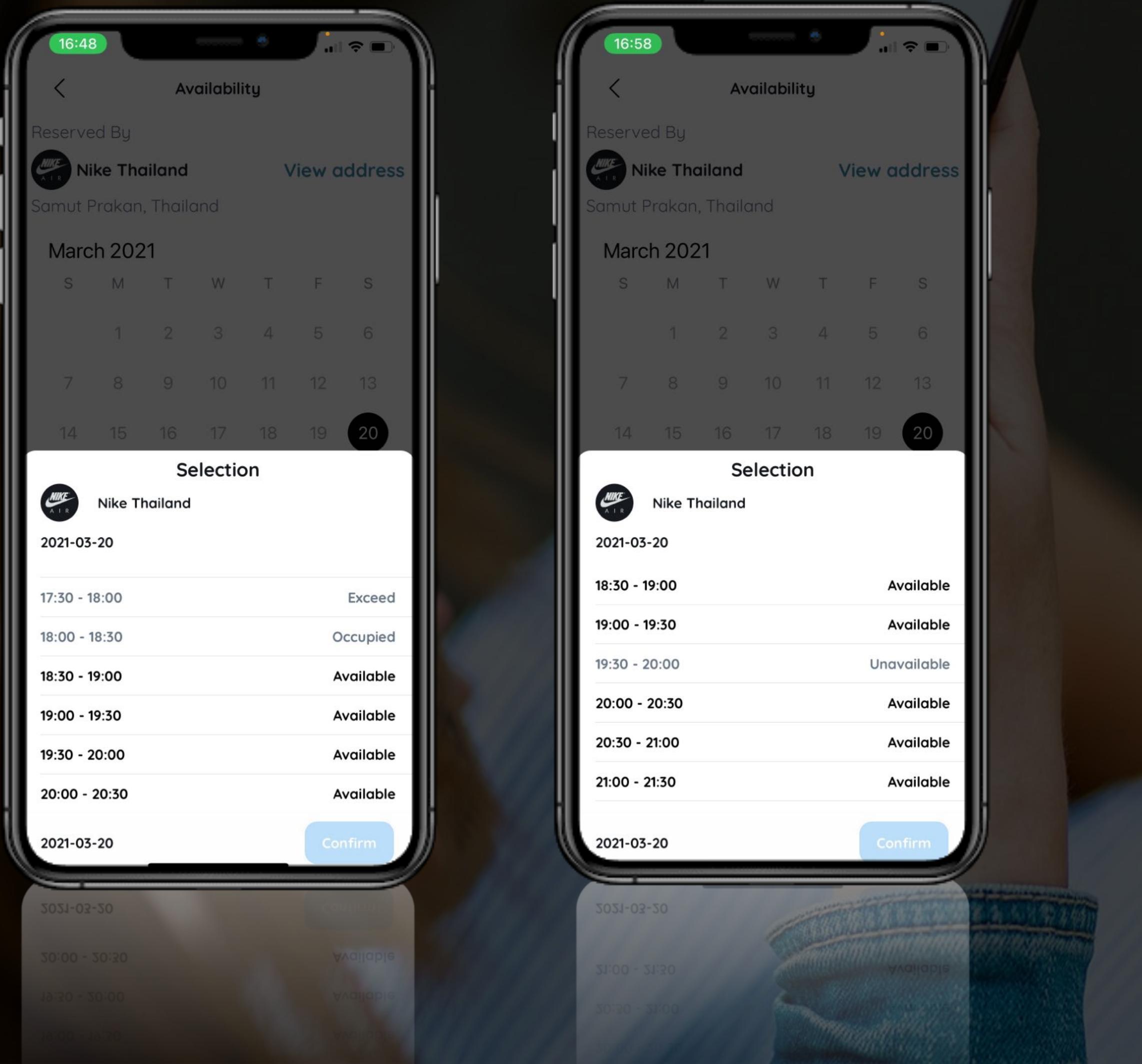


1 Checkout the product

2 Select a reservation date

3 Select a reservation hour

Customer Reservation status



1

Exceed

The timeslot is exceeded current time

The gap for book is timeslot > current_time + 1

2

Occupied

Customer have any reservation during that time.

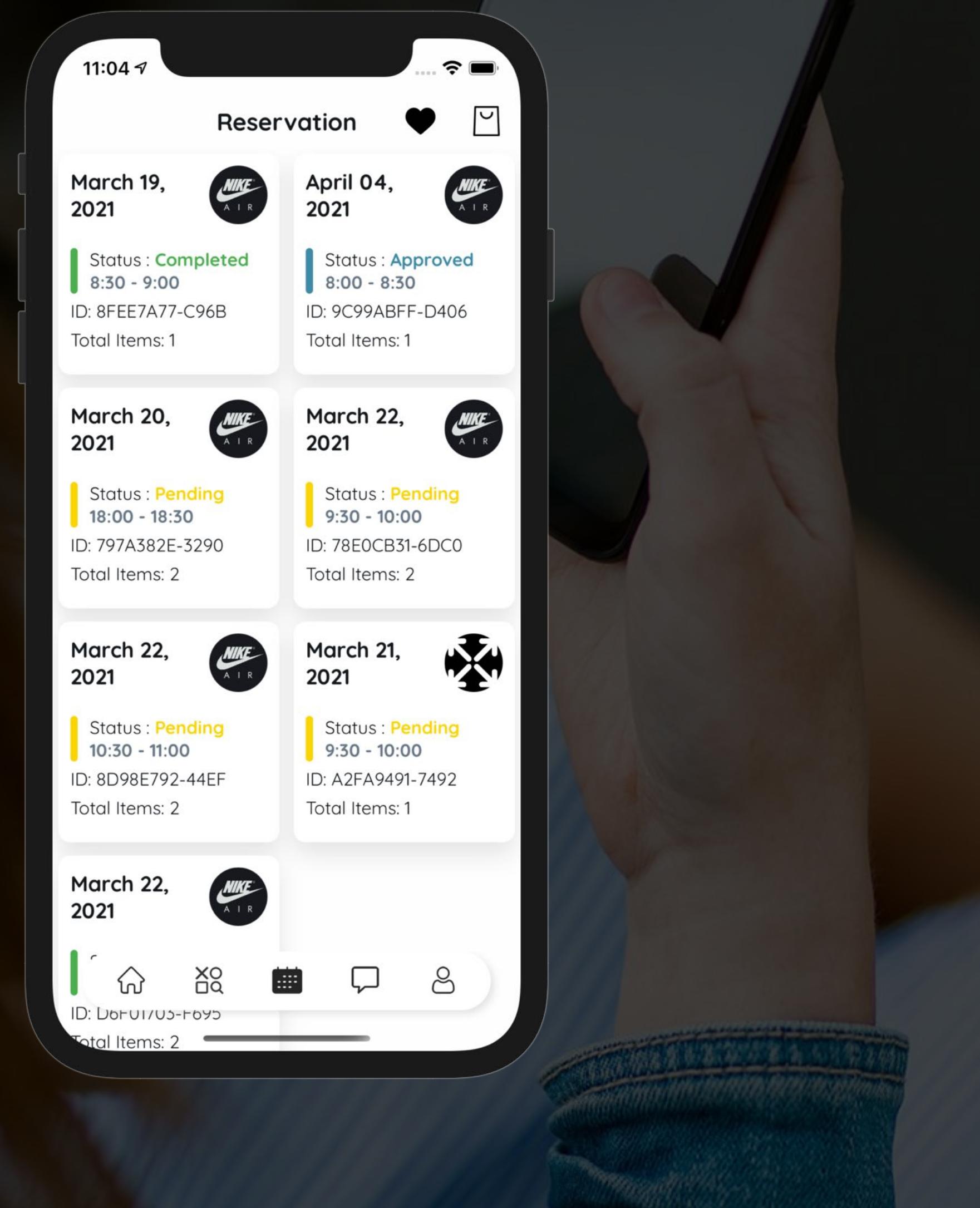
3

Unavailable

The timeslot is currently full.

Customer

Checking the reservations



1 Checking all the reservations

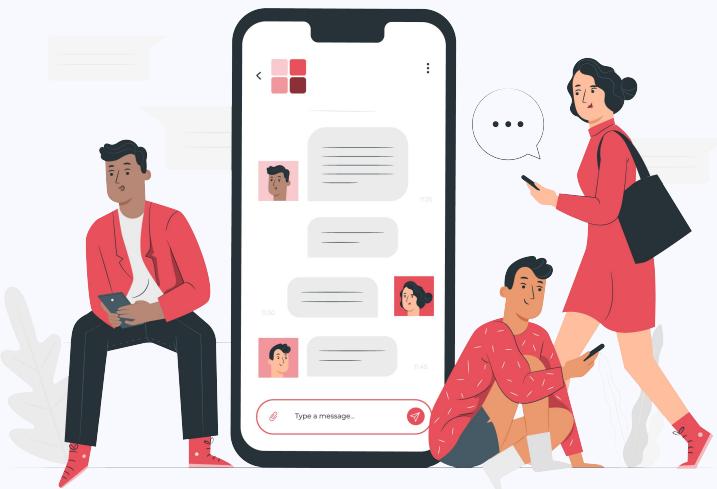
2 See the detail of each reservation

Mutual Features

Chat

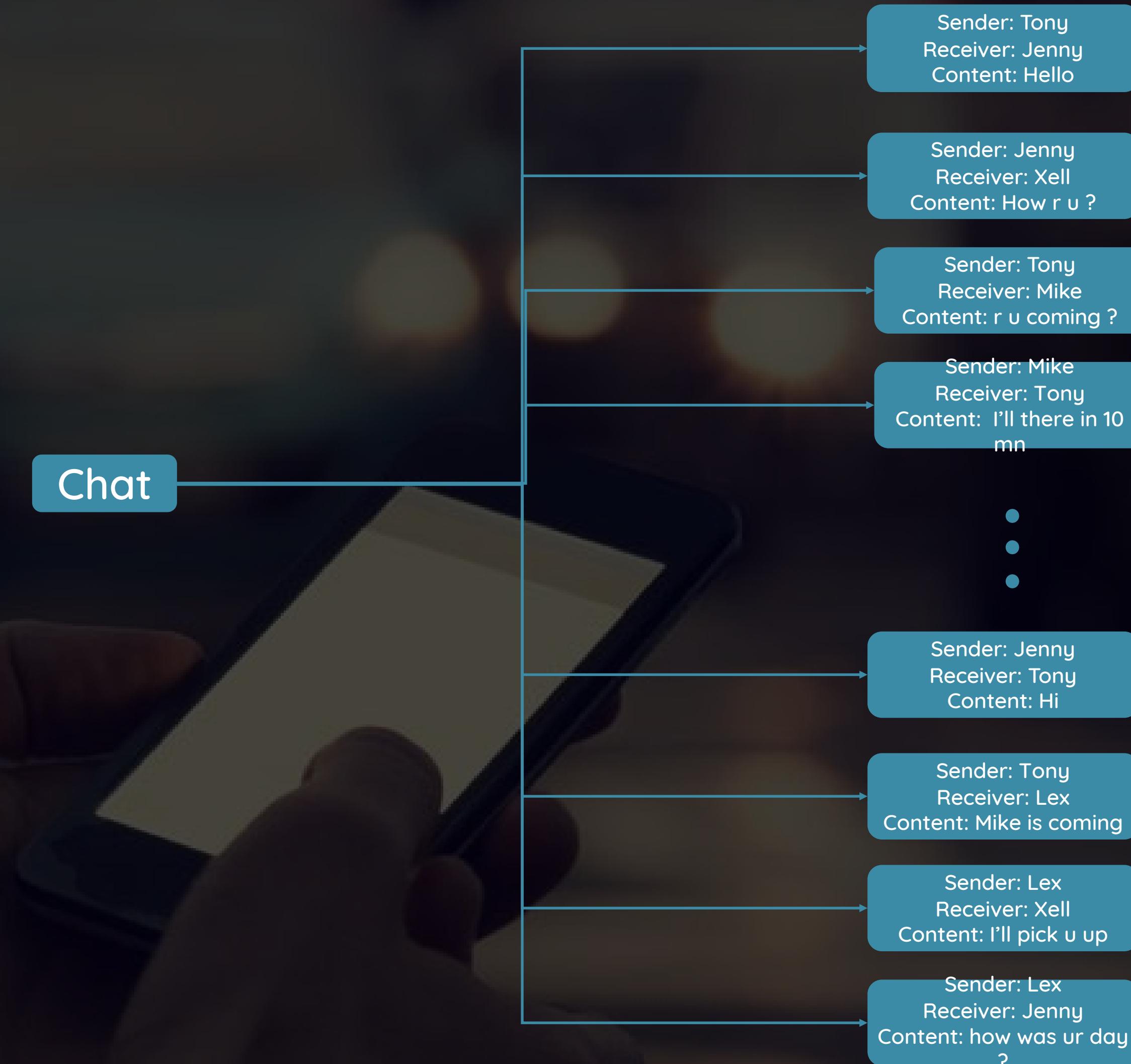


- 1 A build-in real time chat
- 2 An interaction between customer and business owner
- 3 Scalable chat to improve the performance



Mutual Features

Chat



Unscalable chat database structure

Mutual Features

Chat



Scalable chat database structure

Mutual Features

Chat

The screenshot shows the Firebase Firestore interface. On the left, there's a sidebar with a 'messengers' collection. Below it, a 'Fk7TPgVx2Lmo55NdFLgF' document is selected, indicated by a red box around its ID. The document details are as follows:

- createdAt: "2021-03-27T15:54:50.537Z"
- id: "Fk7TPgVx2Lmo55NdFLgF"
- isEmpty: false
- members:
 - 0: "jVYm102t01Ggq2gMpXLs"
 - 1: "queMB3hOEXlvX9cacVg6"
- recent:
 - content: "Thank you so much!"
 - createdAt: "2021-03-27T15:59:35.645Z"
 - id: "MJZIdr6mcI9ysHivqCYH"
 - isRead: false
 - receiverId: "queMB3hOEXlvX9cacVg6"
 - senderId: "jVYm102t01Ggq2gMpXLs"

Group

The screenshot shows the Firebase Firestore interface. A new document 'Fk7TPgVx2Lmo55NdFLgF' is being created under the 'contents' collection. The document details are as follows:

- + Start collection
- + Add document
- contents
- + Add field
- This document does not exist, it will not appear in queries or snapshots

On the right, another document 'KuWEA43VwnjczPnwVrlr' is shown with the following fields:

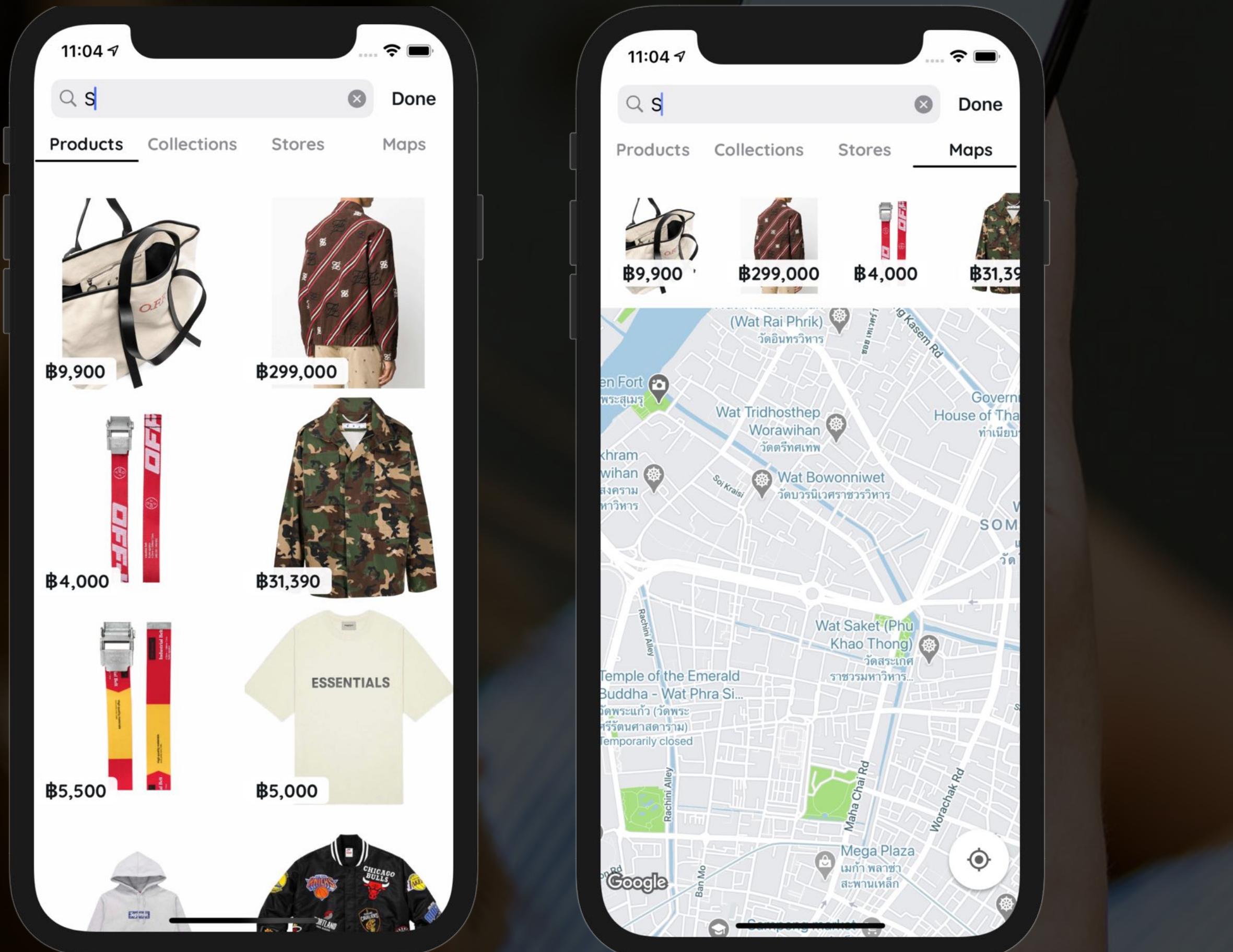
- content: "Around next week"
- createdAt: "2021-03-27T15:59:05.957Z"
- id: "KuWEA43VwnjczPnwVrlr"
- isRead: true
- receiverId: "jVYm102t01Ggq2gMpXLs"
- senderId: "queMB3hOEXlvX9cacVg6"
- type: "text"

Messages

Scalable chat database structure

Mutual Features

Search by Algolia



1

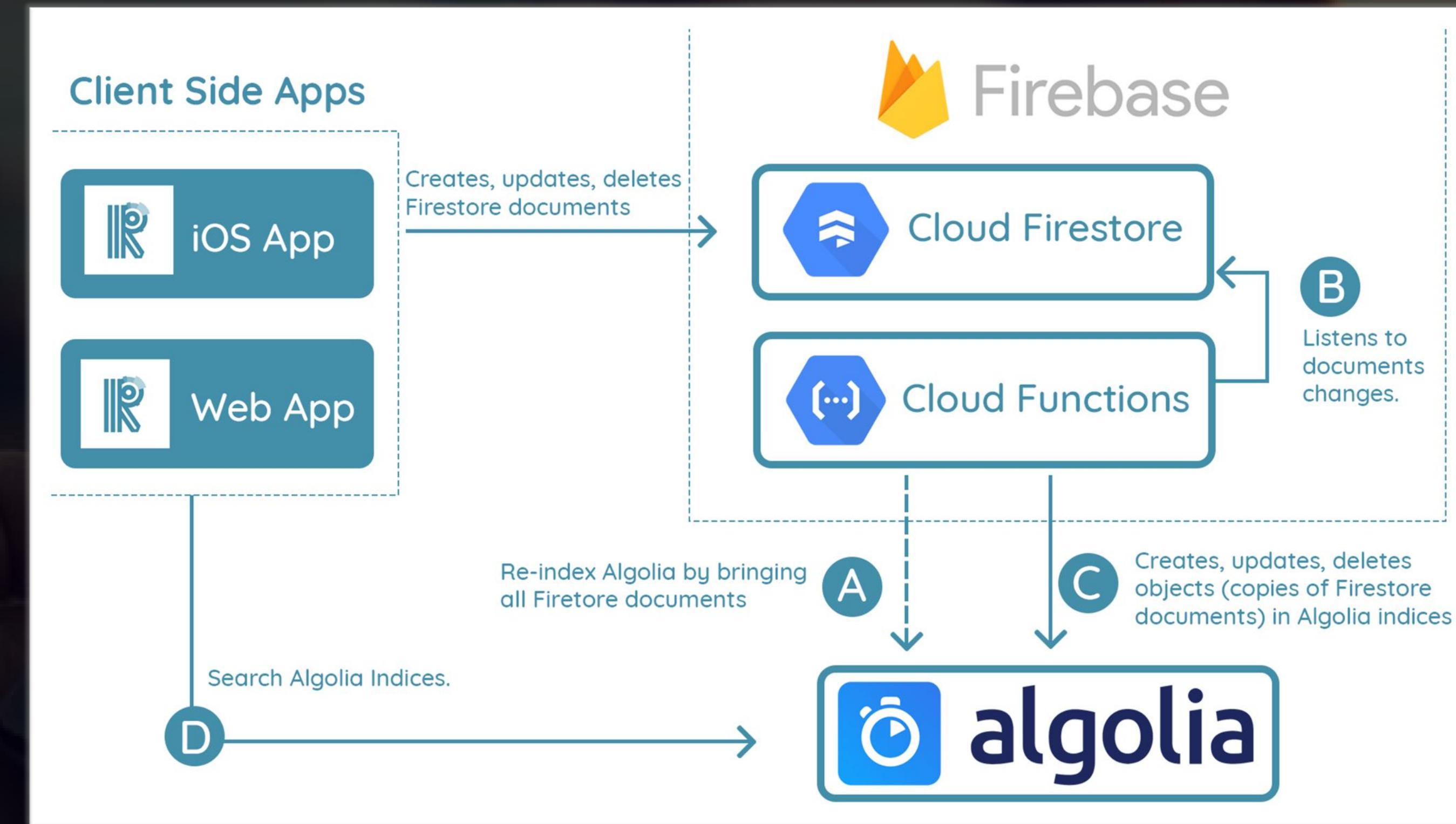
Using Algolia to search the product

2

Algolia will improve the searching experience for user

Mutual Features

Search by Algolia



Mutual Features

Map by Google



1

Google Map will provide the store's location

2

Google Places will navigate customer to store's location by the drawn route



Mutual Features

Map by Google



1

Path Finder provide by Google

2

Apply by requesting the API as follow:

`https://maps.googleapis.com/maps/api/directions/json?origin=(sourceLocation)&destination=(destinationLocation)&mode=driving&key=YOUR_API_KEY”`

Mutual Features

Notification



1

Notification for chats

2

Notification for reservations

Platforms

1

Users



2

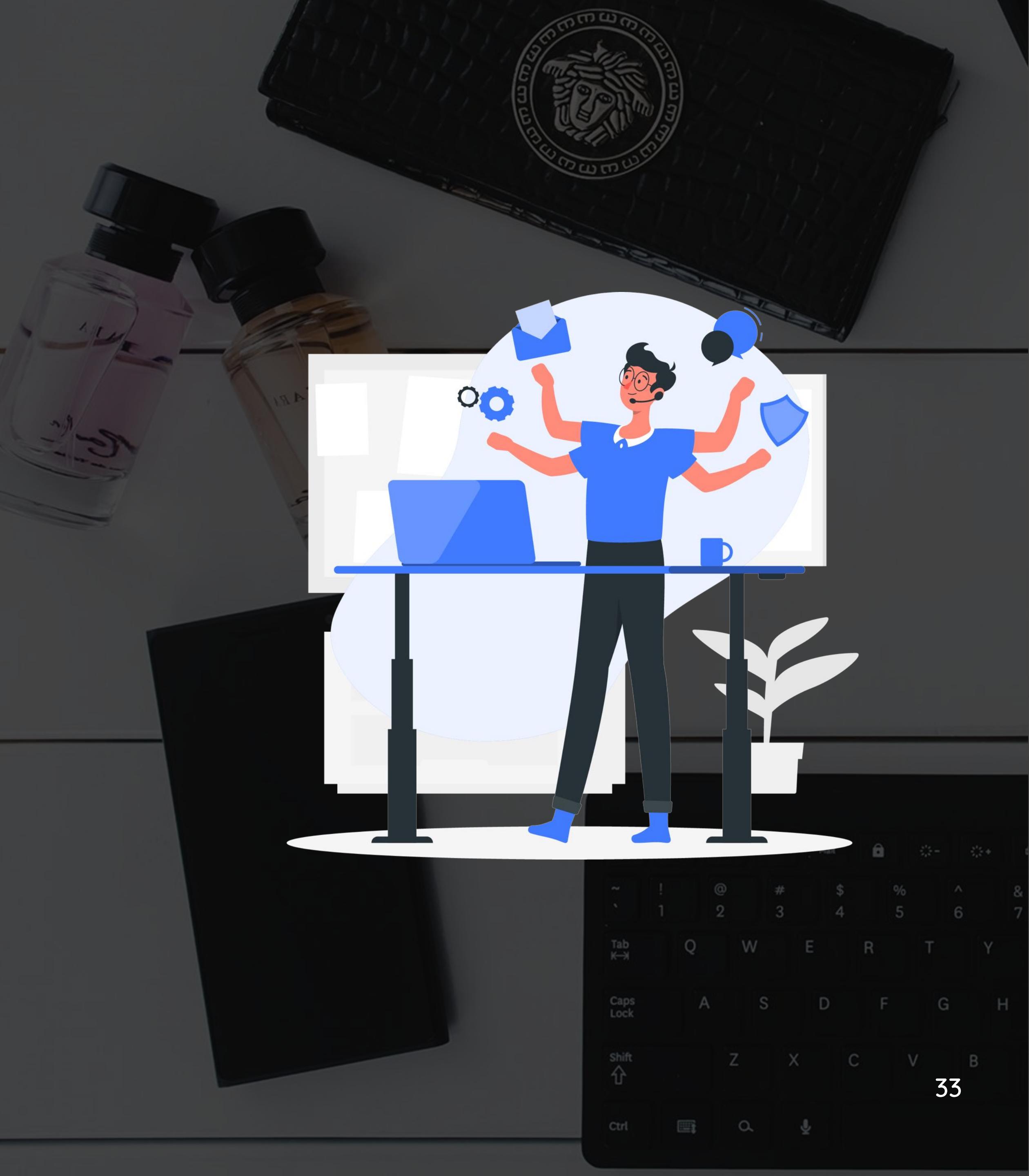
Administration

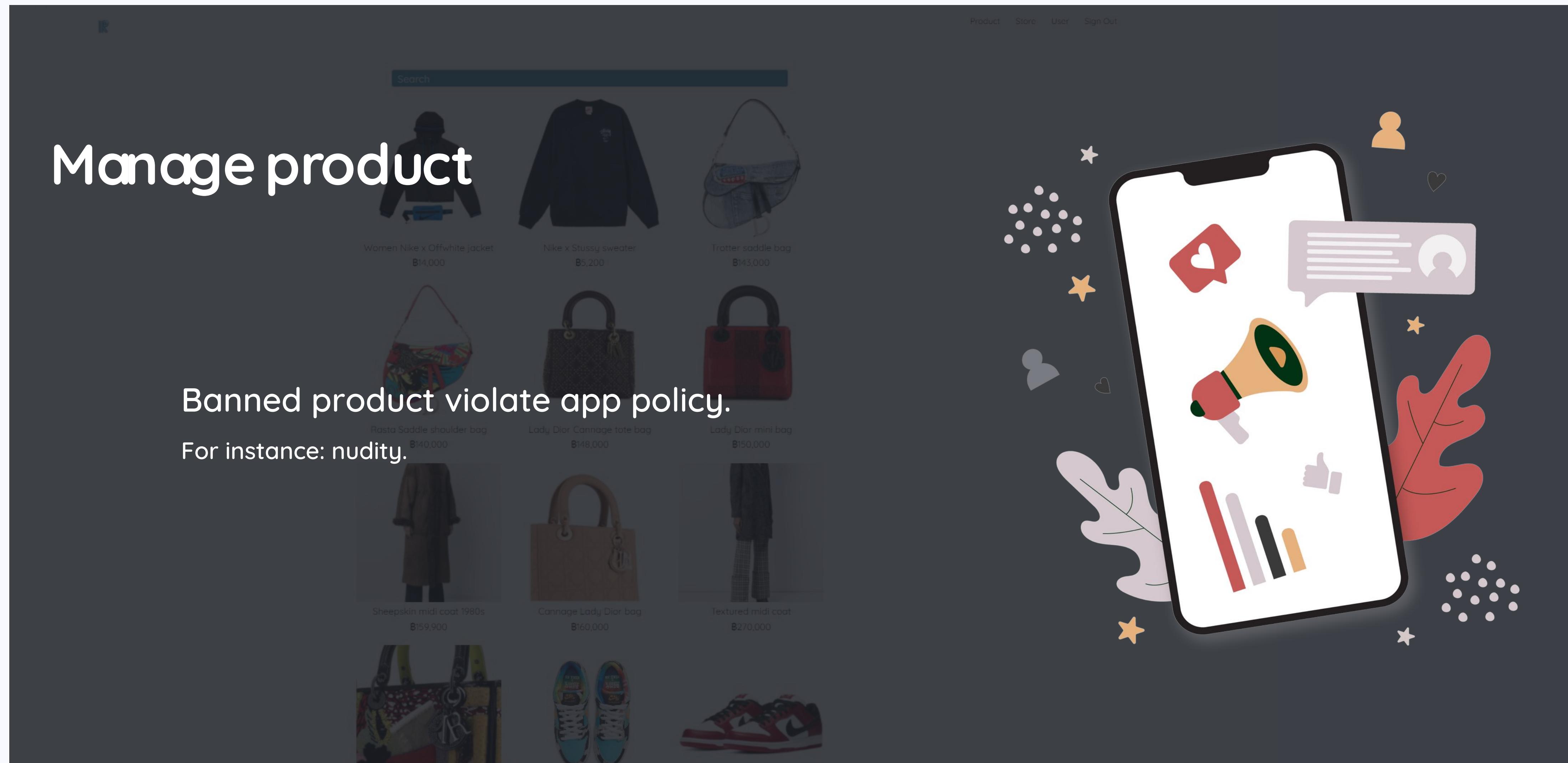


Administration

Will be the place where Admin monitor the service

- 1 On Web Application Platform
- 2 Manage & Monitor Users
- 3 Manage Products





Product Store User Sign Out

Search

Manage User and Store

christandior
Bangkok, Thailand

alexandermcqueen
Bangkok, Thailand

melbournedepot
Chiang Mai, Thailand

HYPEBEAST
hypebeast

essential

offwhite

nikethailand
Samut Prakan, Thailand

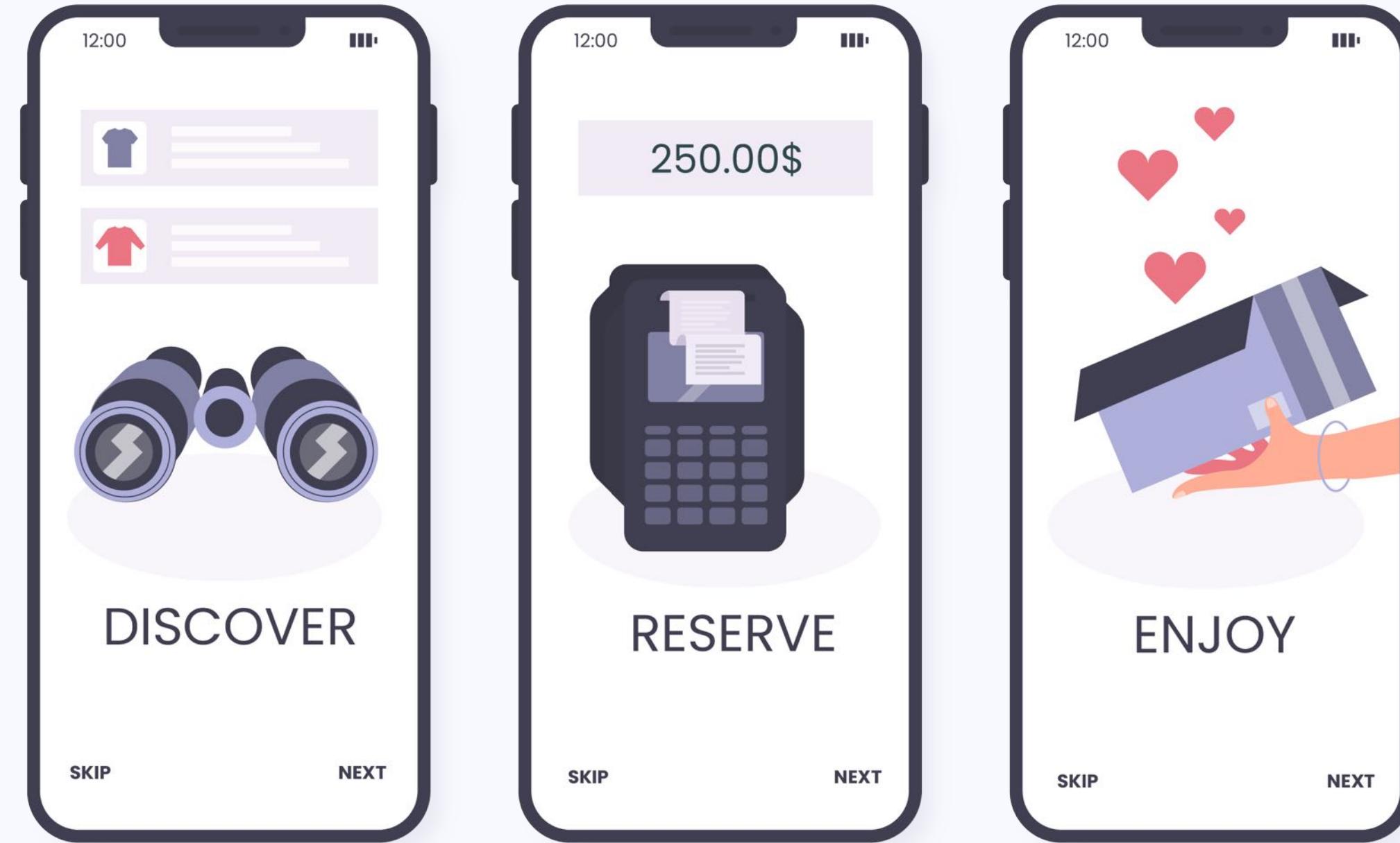
rolex
Bangkok, Thailand

Banned user or store who violate app policy.
Banned a user will affect the other accounts which link with same email.
Banned store will effect only store account but not account that link with same account.





Business Model



Customer segmentation: Focus on general store include service and non-service store.

Market Strategy

Example



Auto body shop



Consultant



Restaurant



Online Experience



Beauty salon



Car test drive

Business Model

Source of income

Business store will register for a premium account with 299 baht or \$10 per month with various benefit to their business

1 Unlimited availability per timeslot.

2 Unlimited product listing.

3 Charge per business account

