Al-Aqsa University

Faculty of Computer and Information Technology

Course: Mobile Application Development 2

Student Name: Raghdaa Abu Eida

Student ID: 2301172113

Lab Project
Second Semester of Year 2020/2021

Project idea :

Booking project is a real project that solves the chalet booking problem. It gives users the ability to book any chalet online from their phone, see the chalet services, chalet images, chalet prices, and more.

Application features:

1. Enable clients to log in to book chalet that he want.
2. Browse any resort and view photos of it, details, booking prices
3. Can filter by price ,rating or city to ease the search for the clients.
4. The ability to save a specific chalet in the favorites list
5. Choose chalet and determine the number of days.
6. Enables the user to communicate with other clients by chatting to question any chalet that he want it
7. Enable the user rating any chalet after he tried the chalet.
8. FCM notification “Firebase Push Notification Integrated”.
9. Display contact info of any chalet ex. Facebook,Instagram,Phone.
10. There are admin app , he can Confirm or cancel any booking and can add any chalet

Components and tools have been used:

UI Design :

- `DrawerLayout`
- Fragments
- AlertDialog
- Menu
- CircleImageView , CardView , TextInputEditText ,TextView
- CalenderView

Programming :

- Firebase : store data
- Services : for FCM notification when admin confirm or cancel booking
- Broadcast :send event SMS message from admin to user
- Implicit and explicit Intent
- Shared Preferences : to save user info in the again login
- Sqlite Database : to save favourite list of booking for specific user
- RecyclerView

Libraries :

- Firebase
    - **Cloud Firestore :** store data in documents that contain fields mapping to values. These documents are stored in collections, which are containers for your documents that you can use to organize your data and build queries
    - **Firebase Authentication :** Knowing a user's identity allows an app to securely save user data in the cloud
    - **Cloud Storage :**store photos
- Glide

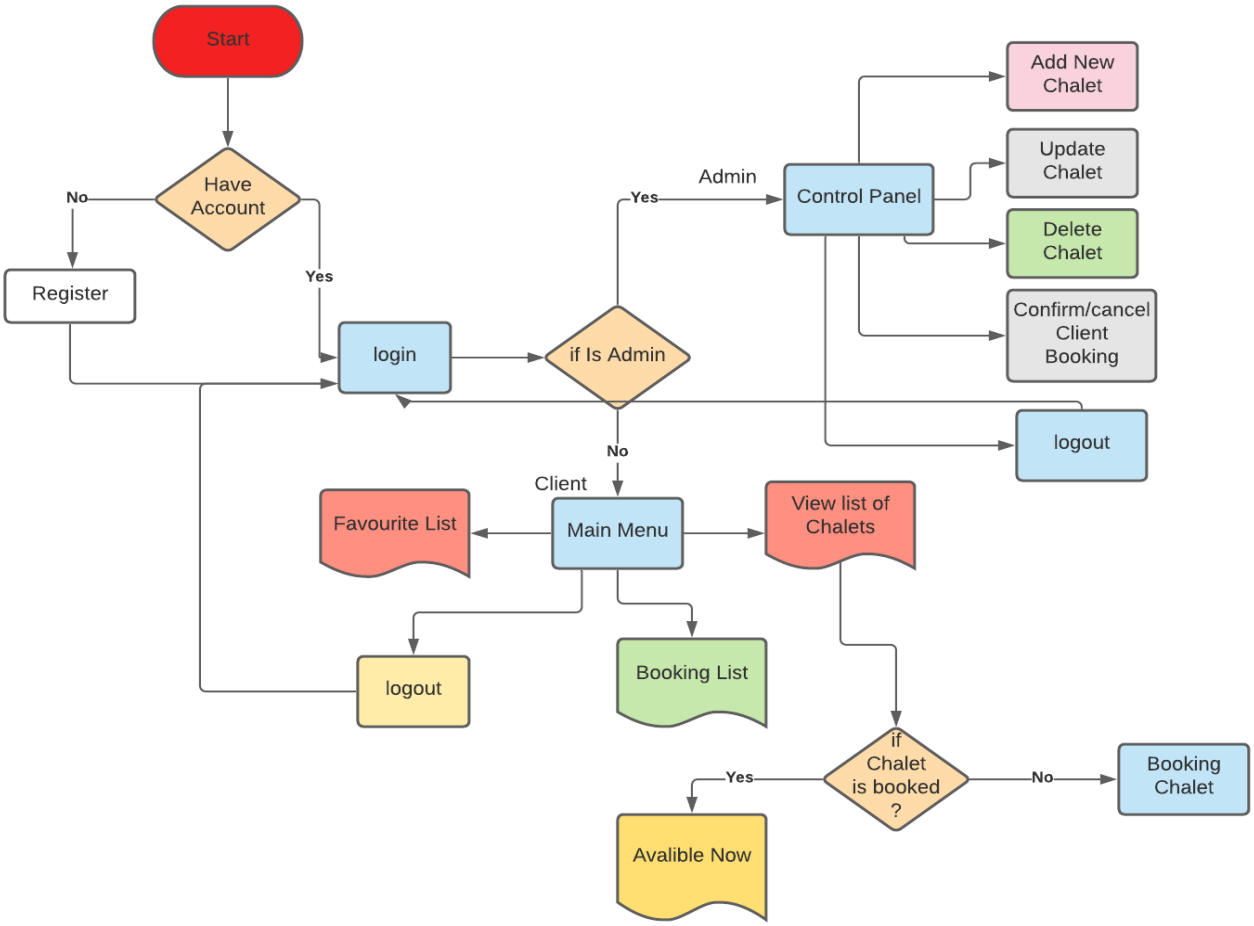
An image loading and caching library for Android focused on smooth scrolling

- Retrofit

  To Push notification to Messaging cloud firestore

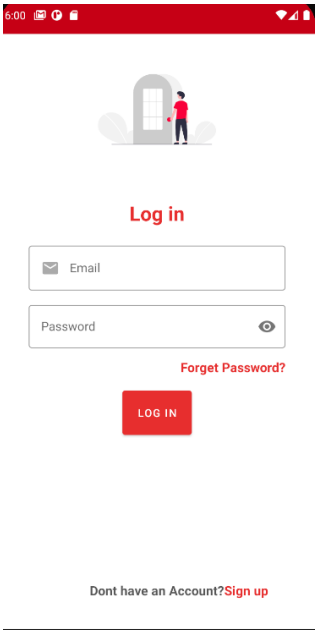
- **Circleimageview**
- **ImageSlideshow**

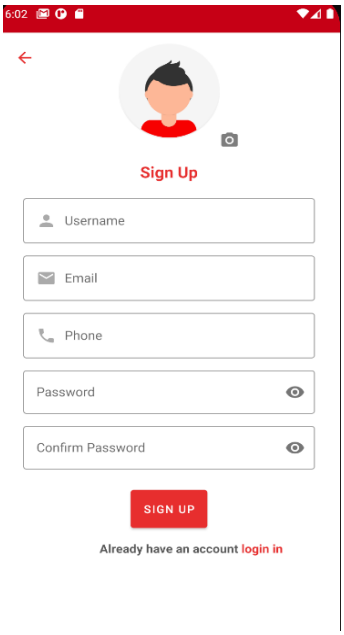
Flow Chart :

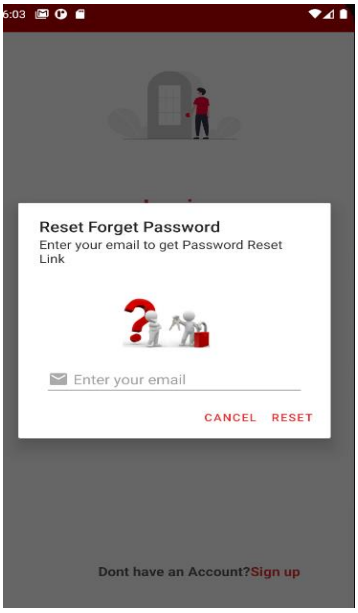

Start
Have Account
No
Yes
Register
login
if Is Admin
Yes
Admin
Control Panel
Add New Chalet
Update Chalet
Delete Chalet
Confirm/cancel Client Booking
logout
No
Client
Main Menu
Favourite List
View list of Chalets
logout
Booking List
if Chalet is booked ?
Yes
No
Booking Chalet
Avalible Now

Screen Shots For App:

- **Authing User**

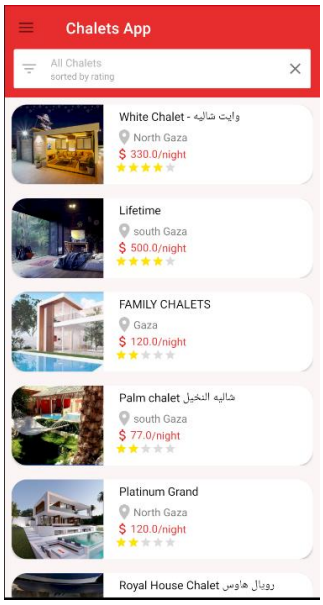




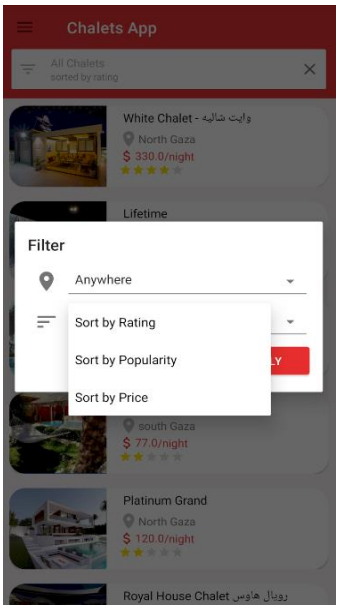


- Main Menu(Client Side)

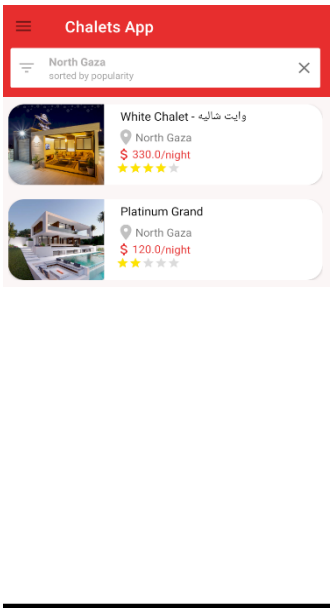
All Chalets



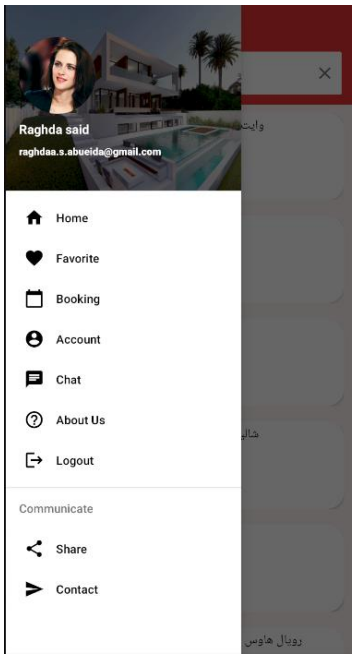
Filtering



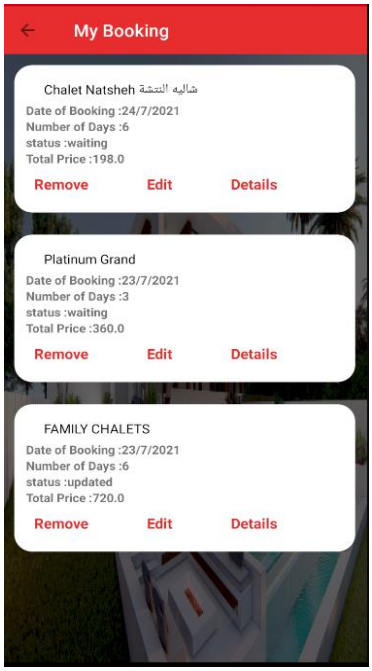
After Filter in North Gaza



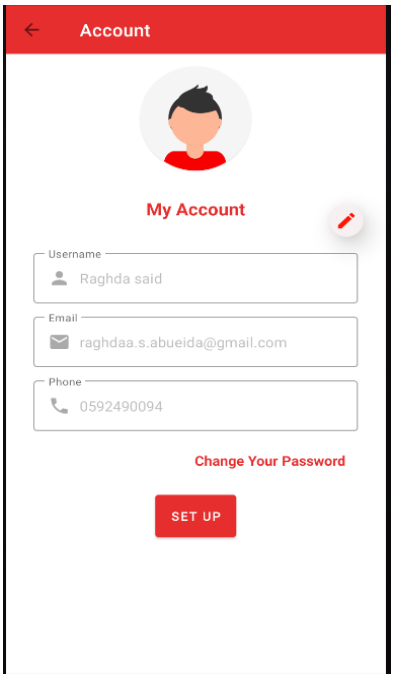
DrawerLayout

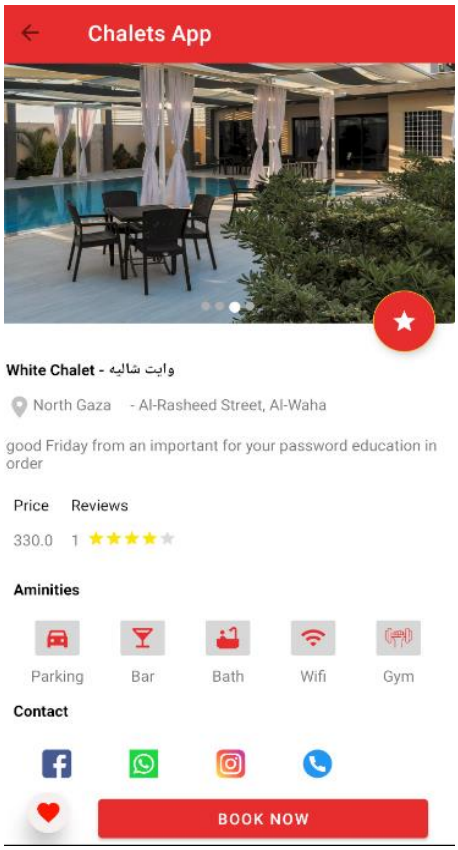


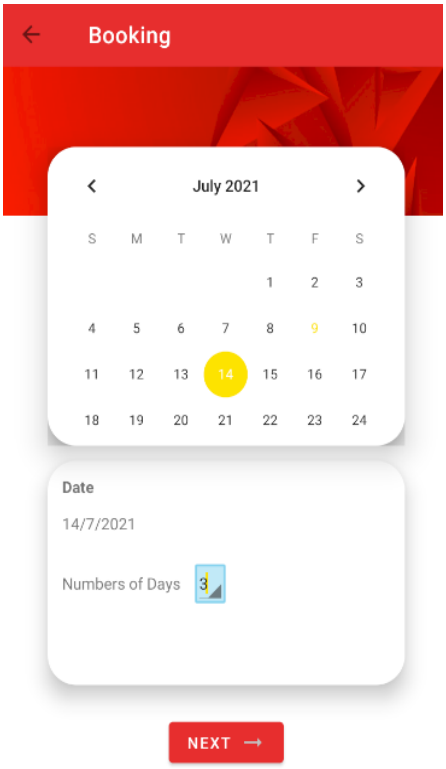
Booking List

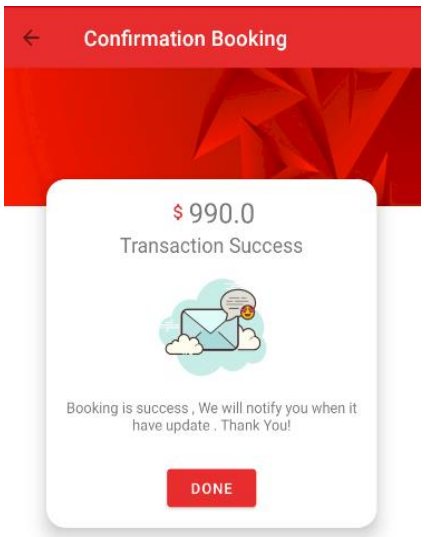


Account

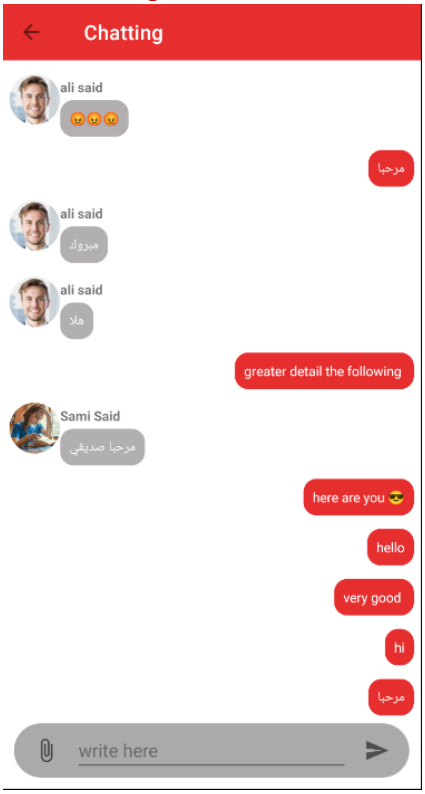




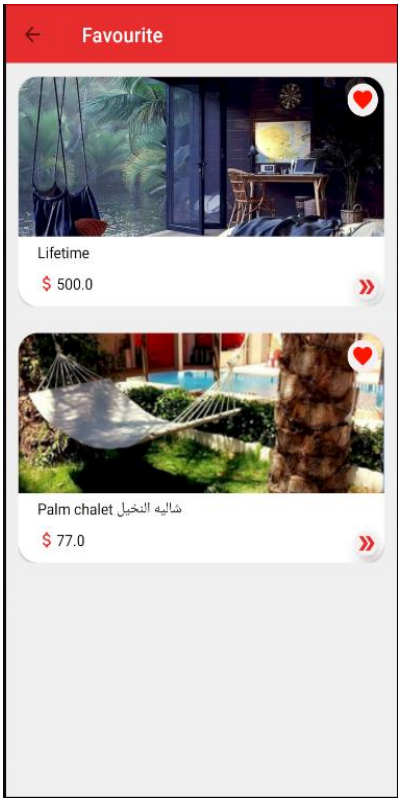




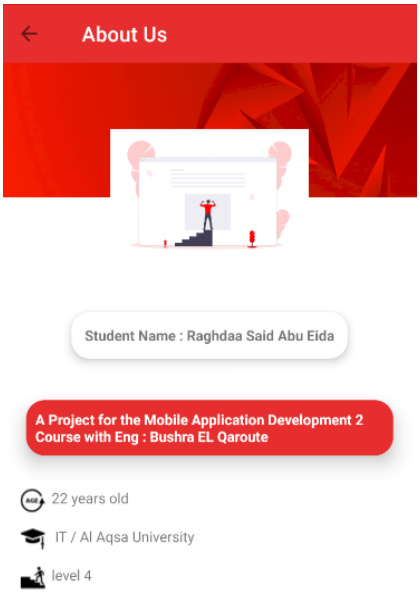
Chatting

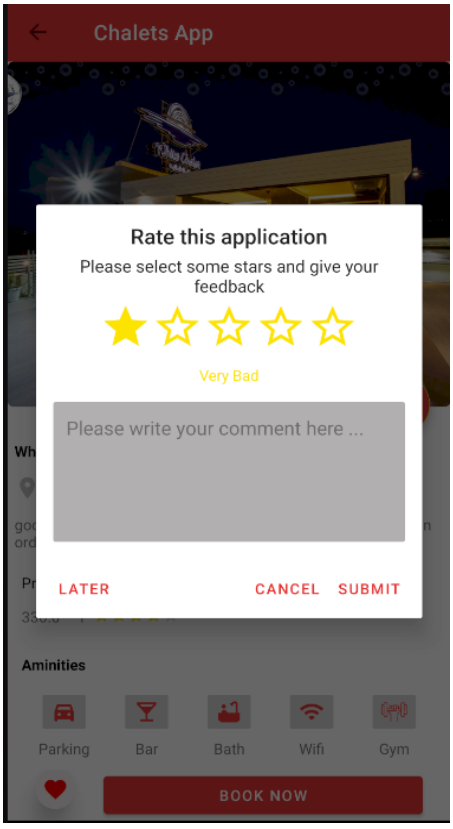


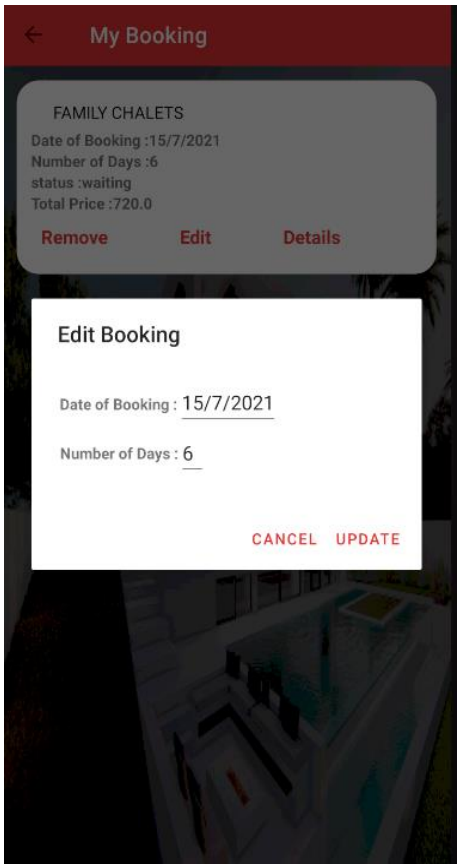
Favourite



About Us

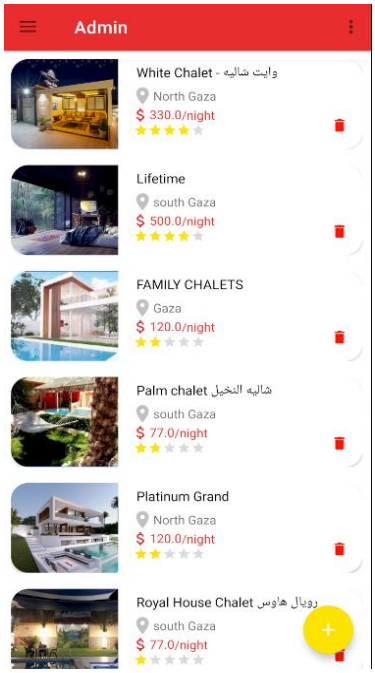


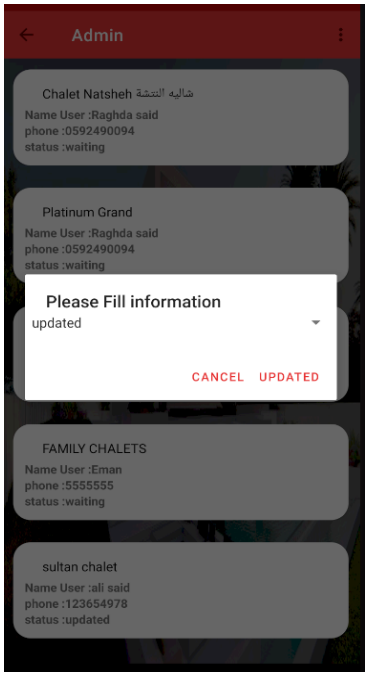




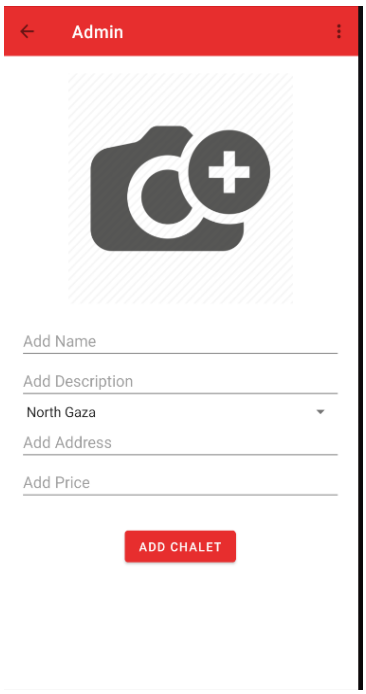
- Admin Side

When update the states of booking user , the client receive notification that the chalet he was booking is updated , and receive sms message on his phone .

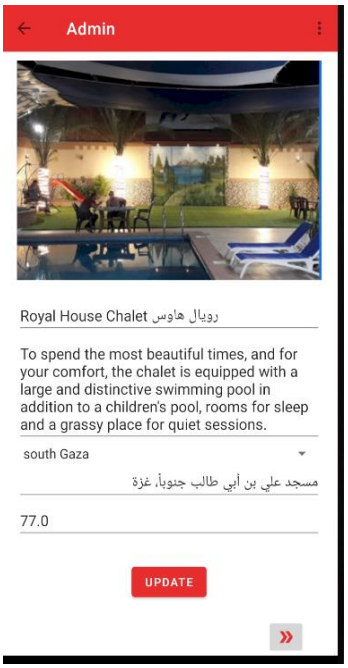
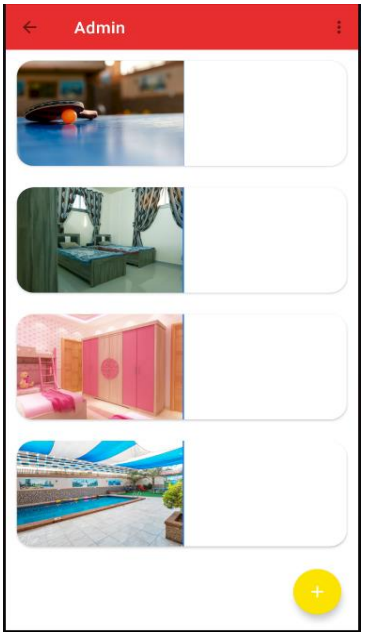




Add A new Chalet



Update Chalet



Add More Pictures For one Chalet