



An-Najah National University
Faculty of Engineering
Computer Engineering Department



Chalet فوريو

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Presented in Partial fulfilment of the requirement for Bachelor degree in Computer Engineering

14/01/2023

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Acknowledgment

First of all, we thank God for giving us the ability to complete our first graduation project

We also thank our project supervisor, Dr. Manar Qamhieh, who supported us and provided all the necessary information to develop and present our project in the best way

We sincerely thank our families for their encouragement and support all the time to complete our project.

Abstract

We designed a mobile application and a website (**Chalet فوريو**) for people who seek to find a recreation place that suits their needs and interests, we believe that this application will serve them positively in terms of saving their time and reducing their efforts to reach their target chalet because the users can preview and examination their needs, in addition to they can got previous experiences from the previous users .

This application enables the people who own the chalet to display and market their chalets more smoothly.

We have provided the most important services that facilitate the process of renting a chalet that fits the needs in one place.

Chalet فوريو provides several features like it allows the user to search for a chalet based on specific criteria they wants, which achieves quickly determine to their final decision and there are several categories and types of chalets available in the application, which provides comprehensiveness of the requirements also the possibility of commenting or evaluating a particular residence(present previous experiences).In addition of providing a tour, that enabling them to have a look around these chalets without having to leave their homes.

Also it providing direct communication between the user and the owner of the chalet through chatting.

The idea of our application is not new. There are many applications similar to it. But what distinguishes **Chalet فوريو** from others is its comprehensiveness. For example, most of the apps are for a specific category of chalets, while our app contains several categories and has a great set of features that make it stand out from similar apps.

Chapter 1: Introduction

1.1 Statement of the problem

Many people looking for new chalets to spend their recreation face problems in finding the right chalet for them in terms of price, location, and views. We have provided a solution to all these problems in **Chalet فوريو**.

Also, we provided several categories of chalets, which provides comprehensiveness of the requirements.

And as we mentioned earlier in the abstract, there are many features that distinguish **Chalet, فوريو** which makes it a solution to many problems facing customers and makes it fill the hole created by other similar applications.

1.2 Objectives

The main objective of our project is to display most of the chalets from all categories, which enables customers to find the suitable chalet for their needs.

Our project facilitates many things, such as searching in several ways by price or region.

It provided the adding comments, so the user can know the opinions of previous users, and this will makes it easier for the customer to make the final decision.

We have also supported the application (**Chalet فوريو**) with a web page that includes most of features supported by the application, and this works to increase the number of users, each according to his desire, whether by using the application or the website.

We also enabled customers to communicate with chalet owners to inquire about any information not mentioned in the details of a particular chalet.

In addition to providing 3D view to the chalet and that helps the user to decide what he need.

Chalet فوريو includes many features that interest the client and realtors at the same time .

1.3 Scope

Chalet فوريو takes care of those looking for new chalets with certain specifications to rent for a certain period

It also concerns chalets owners to increase the number of customers who visit their chalets.

It also facilitates communication between chalet owners and customers.

1.4 Importance

The importance of our project is to enable customers to have easy access to their requirement of the needed chalet, and make others benefit from this experience. It also makes them inquire and get answers from chalet owners.

In addition it makes them search about their chalet in a way that keeps pace with the times, for example, instead of visit the chalets and recording their informations and then compare between them which take a lot of time they can do all these steps in seconds.

Chalet فوريو is easy to use and includes many features that facilitate the life to the customers and to the chalet owners.

1.5 Report Organization

The second chapter will discuss the **limitations** and difficulties we encountered in creating the system. Also, we will mention some courses that helped us in implementing and creating this application. The third chapter **Literature Review** will talk about some of the previous projects in this field, and how they differ from this application. Chapter 4 **Methodology** We will talk about the features supported by our application and what are the techniques and APIs used in building the application. The fifth chapter will talk about the **results** of this project, and the next chapter will talk about the **recommendations** and some future work and the last chapter is for **references**.

Chapter 2: Constraints and earlier work

2.1 Constraints

We faced many challenges, including:

Learn new programming languages during this semester

The semester was short to complete the project, and the languages we used are new languages like flutter or languages we haven't used for a long time like PHP and this took us a lot of time.

Limited educational resources

We had great difficulty in accessing the code for the 3D display of the chalets.

Other problems like

- The emulator stuck with us several times, which made our progress very difficult.
- Many packages for Flutter did not work with us.
- Also, to solve any problem we faced, it took us a long time to solve it.

2.2 Earlier Work

We have taken a lot of courses in our study that helped us to finish this project, including Object Oriented, C ++ Language , Web Programming, Software Engineering, PHP and mySQL DB

Also, we took some outside courses online to learn Flutter.

Chapter 3: literature review

A few decades ago, cell phones became a tool of everyday life, with appreciation 8.65 billion subscriptions worldwide in 2021.

There are many applications for the recreational and recreational field, and this confirms people need such apps especially in holidays. For example, the Jelsat application (App Store, n.d.) is a simple application with few functions. It allows users and chalet owners to exchange information between them and agree to book a chalet with the available specifications, but it lacks the 360-degree view that our application focuses on, so that it increases user confidence when booking and increases credibility in dealing. Especially since it There is a possibility to post comments with pictures of a previous experience.

Chapter 4: Methodology

4.1 List of features

Our application contains many features such as:

- It allows the user to search for a chalet based on specific criteria they want, which quickly determines their final decision
- There are several categories and types of chalets available in the application, which provides comprehensiveness of the requirements
- Also the possibility of commenting or evaluating a particular residence (present previous experiences).
- In addition of providing a tour, that enabling them to have a look around these chalets without having to leave their homes.
- Also it providing direct communication between the user and the owner of the chalet through chatting.
- We also introduced the map in our project to have clear information about the location of the chalet.

4.2 Technical choices

Tools and Programming Languages

We design our mobile application by using visual studio code for the front-end which uses JavaScript, Http and Flutter, we implement the backend with MySQL database and we used the emulator for testing.

At first we used android studio but it is heavy on the device so we moved to use visual studio.

Flutter-Language

Flutter is a mobile app development platform created by Google. It allows developers to create web, desktop, and cross-platform apps that run on Android and iOS devices. It making development faster and easier than traditional methods.

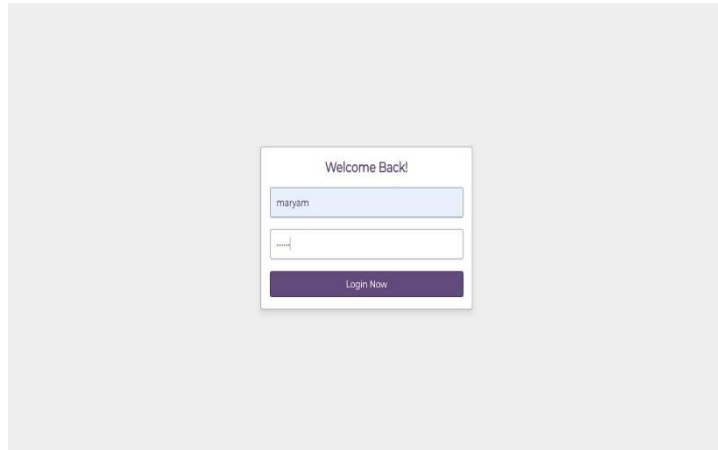
My-SQL

MySQL is a tool used to manage databases and servers.

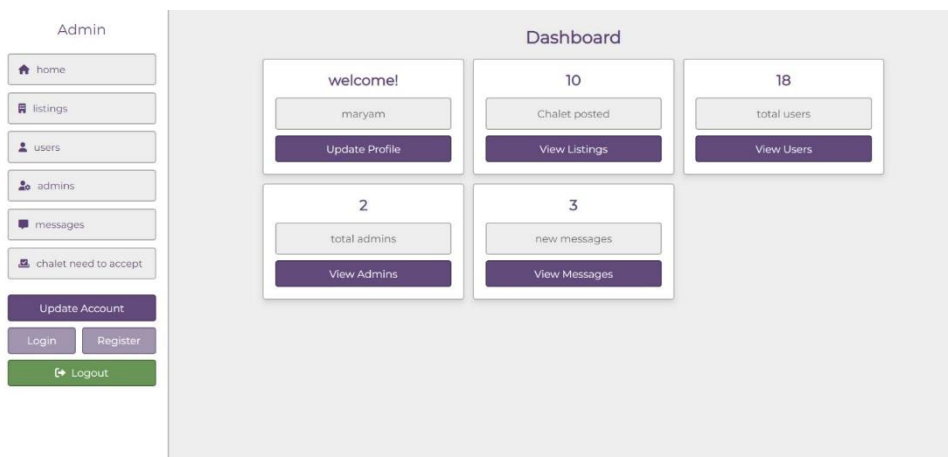
4.3 Methods and techniques

Web Part

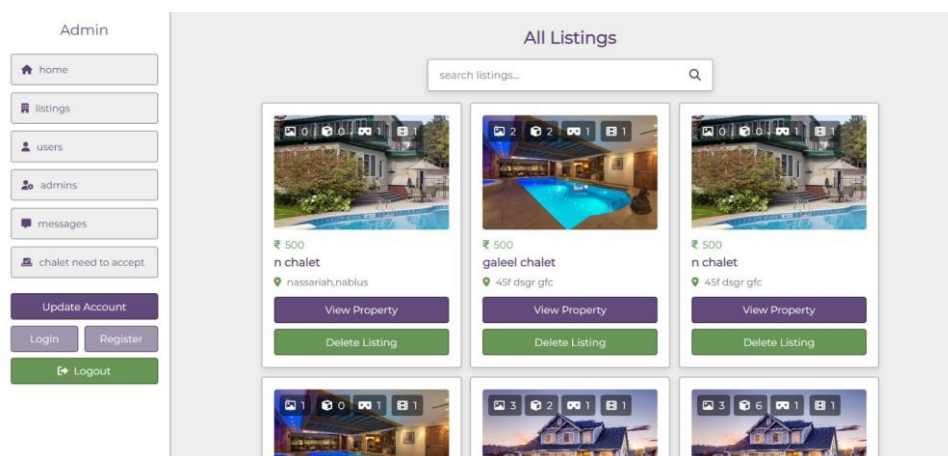
4.3.1 Admin parts



Admin Login Page

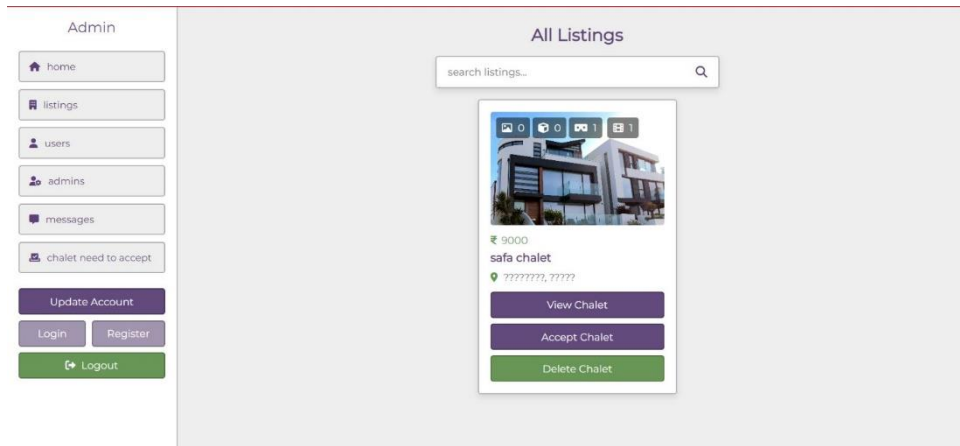


Admin dashboard that displays all the details to the admin like chalets,Msgs,users...

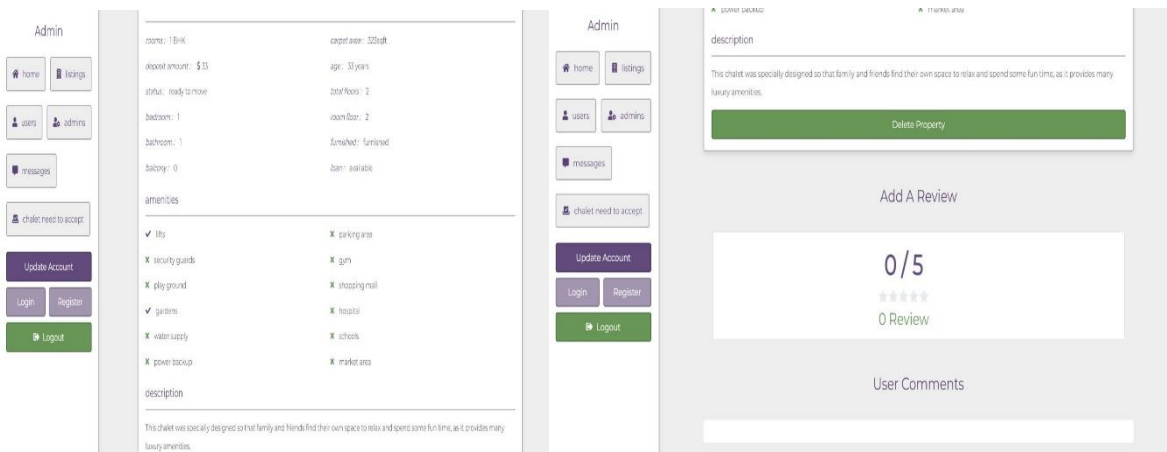
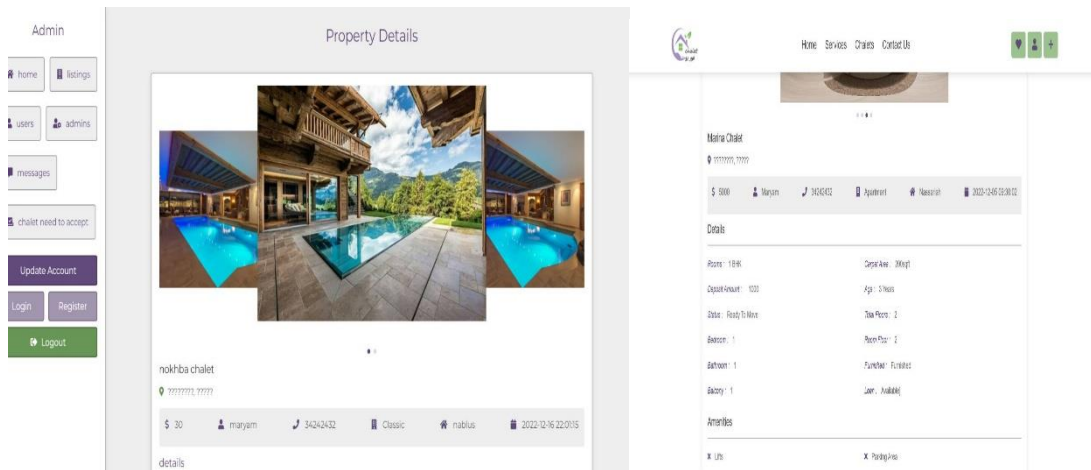


Listing Page contains all posted chalets with the ability to delete anyone of them.

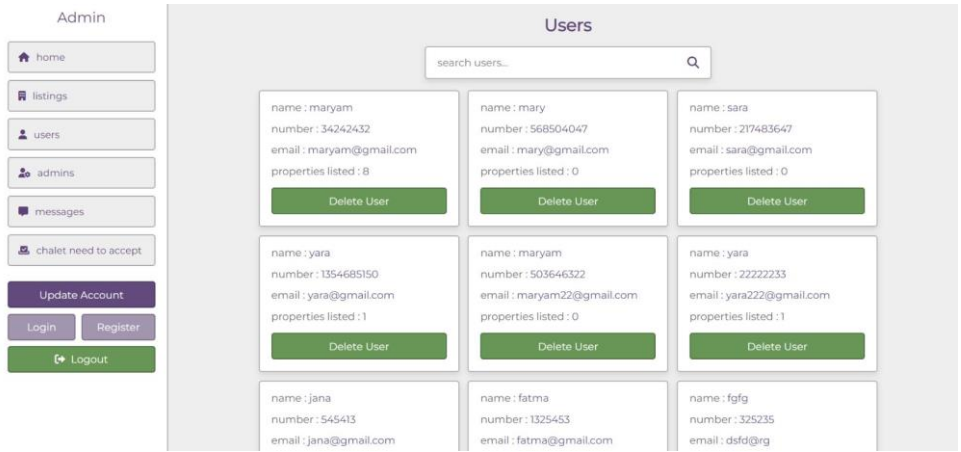
* posted chalets : The chalets that were presented to the admin and approved to be published to clients *



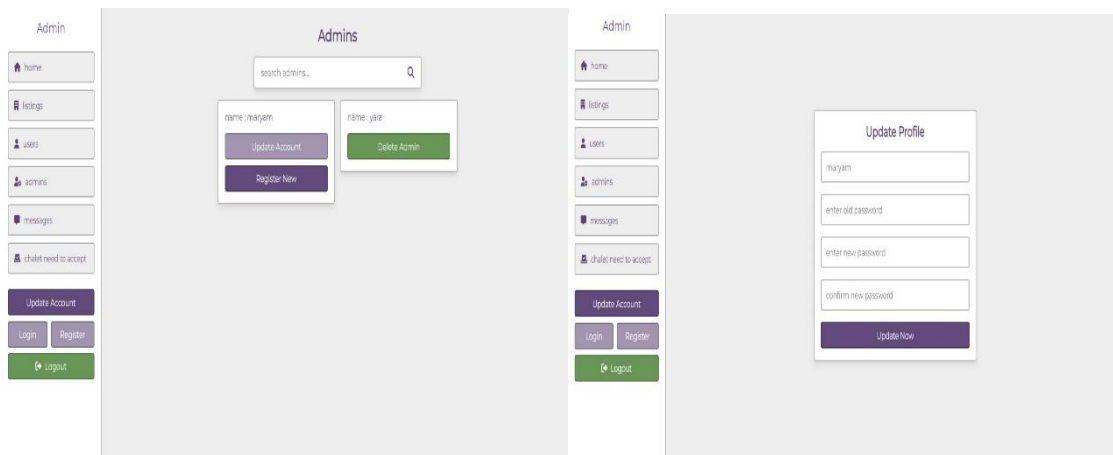
Chalets posted to admins to be accepted to be viewed by clients.



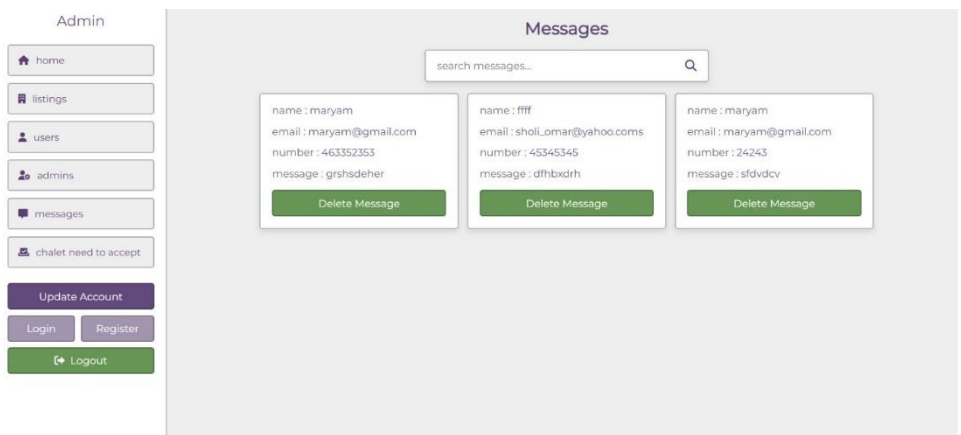
All chalet information



View users on the admin page with the ability to delete anyone of them.



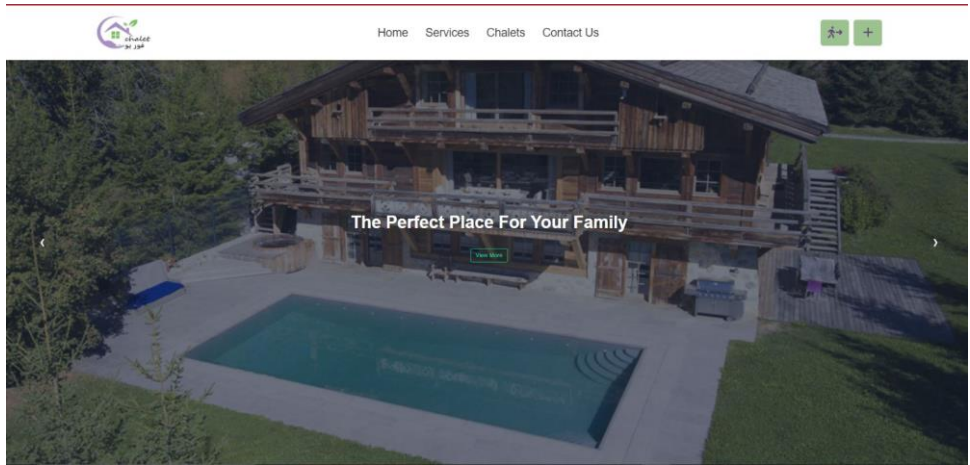
Edit admin profile



Msg from client or chalet owner to admins.

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### 4.3.2 Welcome page

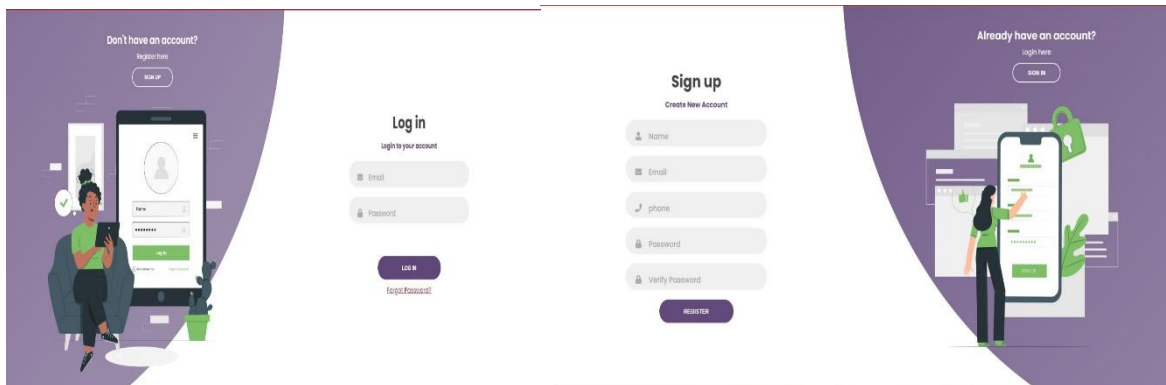


The clients can see all chalets before sign up process but without details.



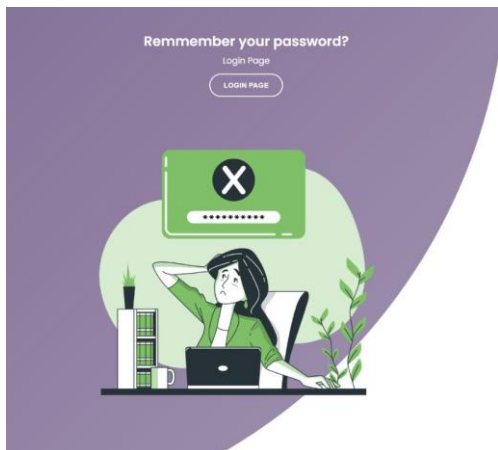
### 4.3.1 Client part

In our app, there are three types of users: Clients or Customers, chalet owners, and admins. The first page in our app is the welcome page. Through it, the user chooses to log in if he has an account and move directly to his account. But if he is a new user, signs up to create a new account and fills the general information about him.

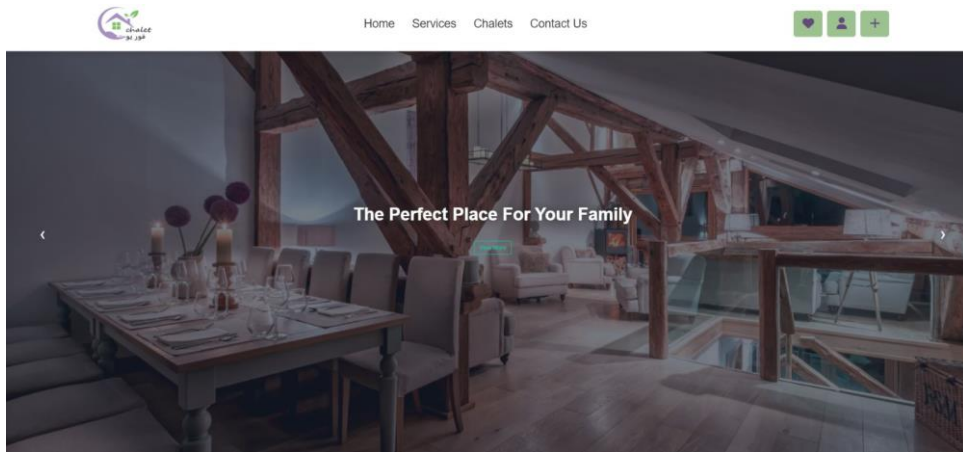


Sign up

Login page



Forgot password



Welcome page after login

### Our Services



**Search For Chalet That Suit You**  
Find About Chalet For Rent, Markets And Trends.

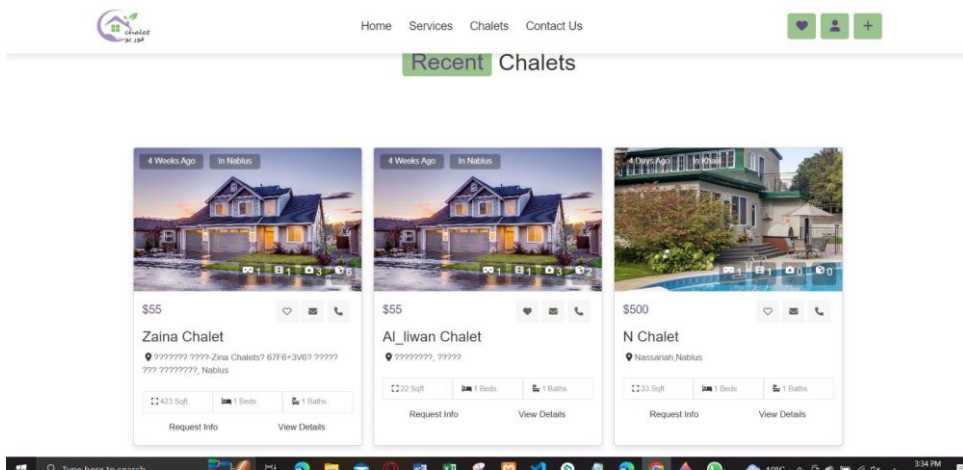


**Chat And Call The Owner To Negotiate**  
Users Will Be Able To Go Chat With The Chalet Agent Will Give Help.

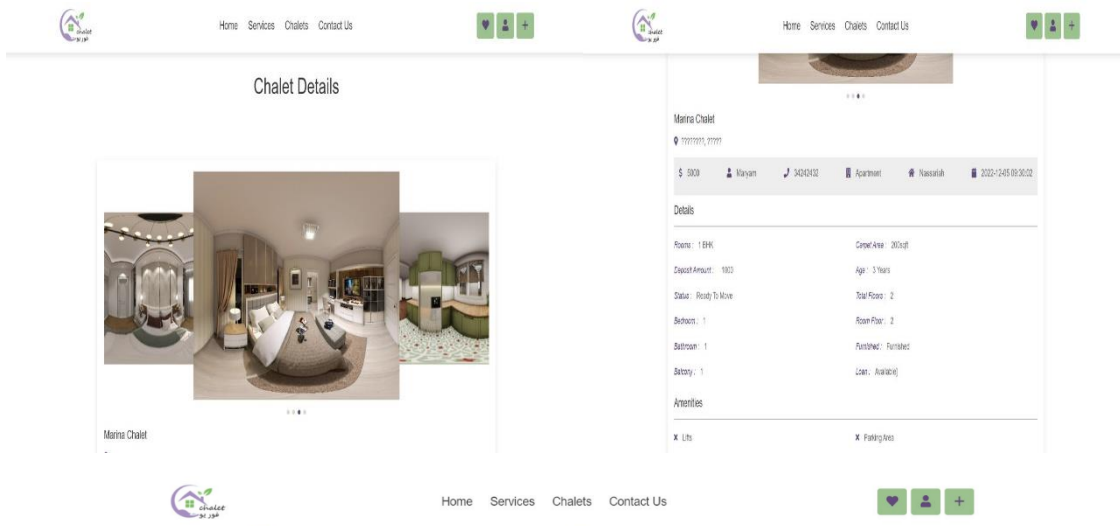


**Find Your Target Chalet To Finish The Deal**  
Set The Terms And Conditions And Finish The Deal With A Win-Win Situation.

### Services



The most three rated chalets.



**Amenities**

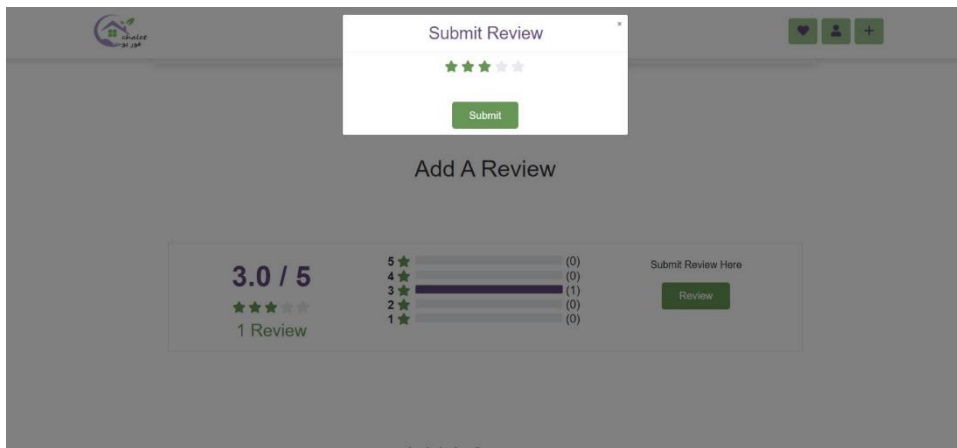
- Lifts
- Security Guards
- Play Ground
- Gardens
- Water Supply
- Power Backup
- Parking Area
- Gym
- Shopping Mall
- Hospital
- Schools
- Market Area

**Description**

This Chalet Was Specially Designed So That Family And Friends Find Their Own Space To Relax And Spend Some Fun Time, As It Provides Many Luxury Amenities.

♥ Saved

A chalet details.



Allow the clients to add their review to the chalets.



### Add A Comment

Write Your Comment...

Choose File No File Chosen

Add Comment

Allow the clients to add their comments to the chalets with ability to upload image.



### User Comments

Maryam  
2023-01-13 22:17:16  
★★★★★

Dedev

Edit Comment Delete Comment

Maryam  
2023-12-19 10:21:24  
★★★★★

Beautiful

Edit Comment Delete Comment

### Edit Comment

Write

Choose File No File Chosen

Cancel Edit Update Now

Allow the clients to edit or delete their comments to the chalets .



January 2023

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|--------|---------|-----------|----------|--------|----------|
| 1      | 2      | 3       | 4         | 5        | 6      | 7        |
| 8      | 9      | 10      | 11        | 12       | 13     | 14       |
| 15     | 16     | 17      | 18        | 19       | 20     | 21       |
| 22     | 23     | 24      | 25        | 26       | 27     | 28       |
| 29     | 30     | 31      |           |          |        |          |

Today Half Day Already Booked

Book For Date: 01/31/2023


- 8 Am- 8 Pm
- 10 Pm-8 Am

Submit

Booking pages for a day or a half day



Saved Chalets




**\$5000**

**Marina Chalet**

2000 Sqft • 1 Beds • 1 Baths

[Request Info](#) [View Details](#)



**\$500**


**N Chalet**

Nassanah, Nabius

300 Sqft • 1 Beds • 1 Baths

[Request Info](#) [View Details](#)

Every user have favorite chalets list .



**Get In Touch**

Enter Your Name

Enter Your Email

Enter Your Number

Enter Your Message

Send Message

FAQ

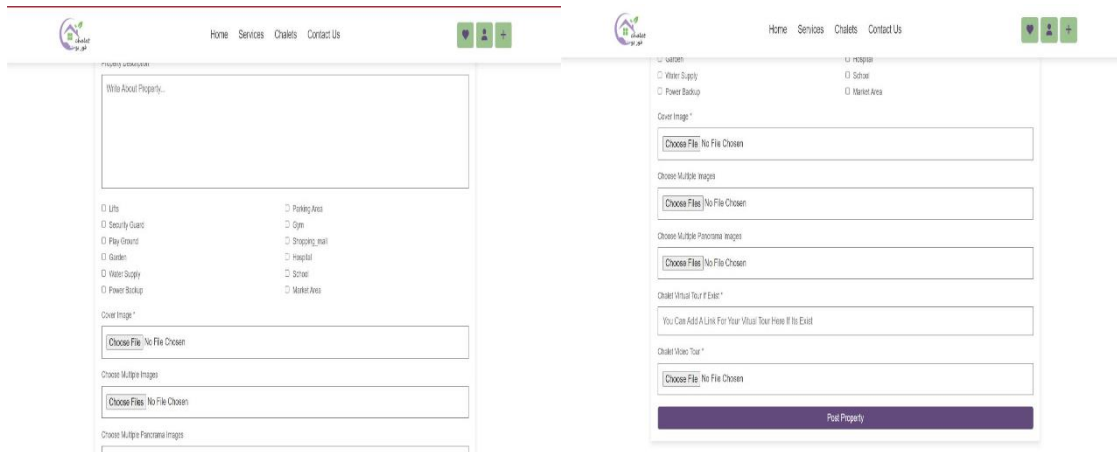
|                                                                                                                      |                                                                          |
|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| How To Cancel Booking?                                                                                               | When Will I Get The Premium Benefit?                                     |
| This Can Cancel The Booking By Going To Your Client's Term Page In The System And Then Manage Booking's And Support. | When You Have Any Issue For Booking, You Can Go To The Client's Details. |
| When Can I Pay The Rent?                                                                                             | How To Contact With The Renters?                                         |
| You Can Pay The Rent After The Booking Is Approved.                                                                  | You Can Contact With The Renters Through The System Or By Calling Us.    |
| Why My Chalet Not Showing Up?                                                                                        | How To Promote My Chalet?                                                |
| Your Chalet Will Show Up After The Booking Is Approved.                                                              | You Can Promote Your Chalet Through The System Or By Calling Us.         |

Contact us page.

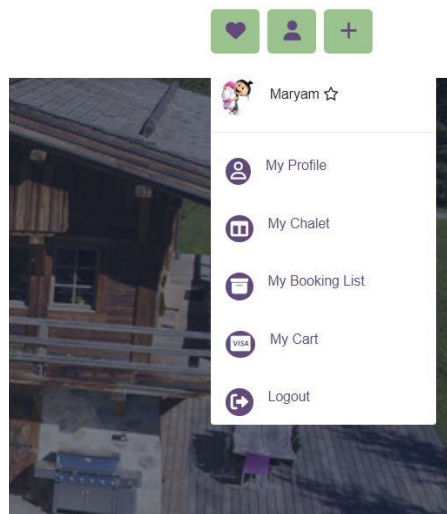
Chalet Details

|                      |                      |
|----------------------|----------------------|
| Property Name *      |                      |
| <input type="text"/> |                      |
| Property Price *     | Deposit Amount *     |
| <input type="text"/> | <input type="text"/> |
| Property Address *   | Chalet City *        |
| <input type="text"/> | <input type="text"/> |
| Property Type *      | Property Status *    |
| Classic              | Ready To Move        |
| Furnished Status *   | How Many BHK *       |
| Furnished            | 1 BHK                |
| How Many Bedrooms *  | How Many Bathrooms * |
| 1 Bedroom            | 1 Bathroom           |

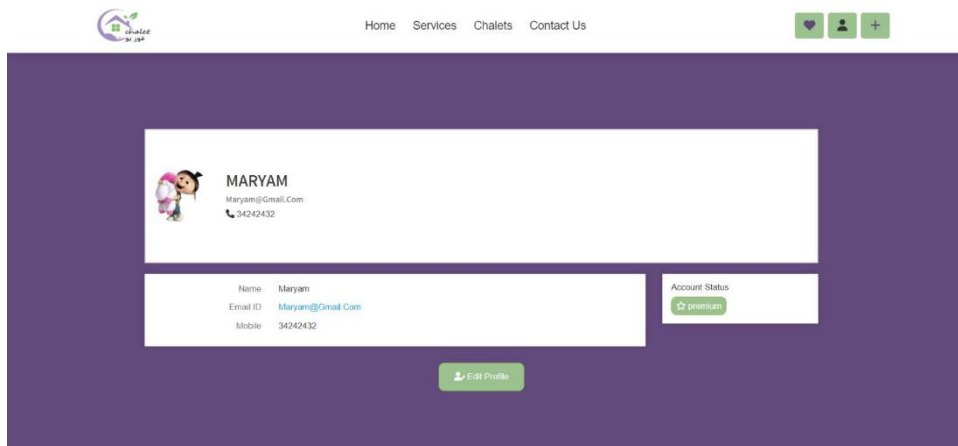
|                             |                               |
|-----------------------------|-------------------------------|
| Chronic                     | Ready To Move                 |
| Furnished Status *          | How Many BHK *                |
| Furnished                   | 1 BHK                         |
| How Many Bedrooms *         | How Many Bathrooms *          |
| 1 Bedroom                   | 1 Bathroom                    |
| How Many Balconies *        | Carpet Area *                 |
| 0 Balcony                   | How Many SquaresFeet?         |
| Property Age *              | Total Floors *                |
| How Old is Property?        | How Floors Available?         |
| Floor Room *                | Loan *                        |
| Property Floor Number       | Available                     |
| Free Hall Of The Day Time * | Second Hall Of The Day Time * |
| Enter Time                  | Enter Time                    |
| Property Description *      |                               |



Posting a Chalet by Chalet owners.



Personal list for each user.



User info <appears as premium if he publishes many chalets or gets a high rating>

Home Services Chalets Contact Us

Maryam  
Maryam@gmail.Com

Personal Details

|               |                            |
|---------------|----------------------------|
| Name          | Maryam                     |
| Email         | Maryam@gmail.Com           |
| Phone         | 34242432                   |
| Password      | New Password               |
| Profile Photo | Choose File No File Chosen |

Cancel Update

Edit profile info.

Home Services Chalets Contact Us

| Properties                          | BHK | Type      | Added Date          | Status       | Update | Booking | Delete |
|-------------------------------------|-----|-----------|---------------------|--------------|--------|---------|--------|
| <br><b>Marina Chalet</b><br>\$ 5000 | 1   | Apartment | 2022-12-05 09:30:02 | For Nassarah | Update | Booking | Delete |
| <br><b>Safa Chalet</b><br>\$ 9000   | 1   | Luxury    | 2022-12-07 11:29:55 | For Nablus   | Update | Booking | Delete |

Chalets Booked by an user with ability to edit or delete.

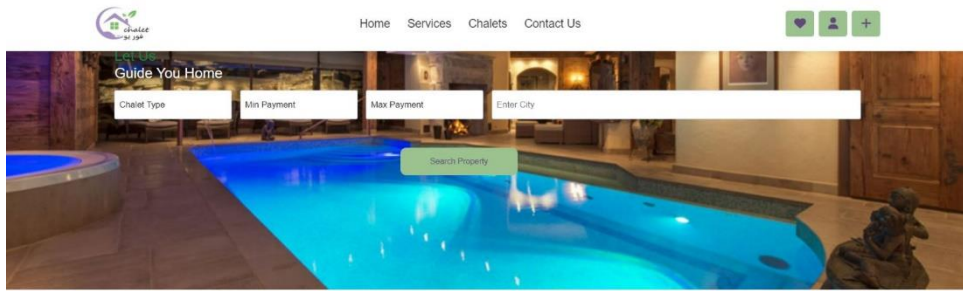
Home Services Chalets Contact Us

Bookings in My Chalet

Chalet Name : Marina Chalet  
 Name : Maryam  
 Email : Maryam@gmail.Com  
 Number : 34242432  
 Date : 2023-01-17  
 Time : 8 Am- 8 Pm

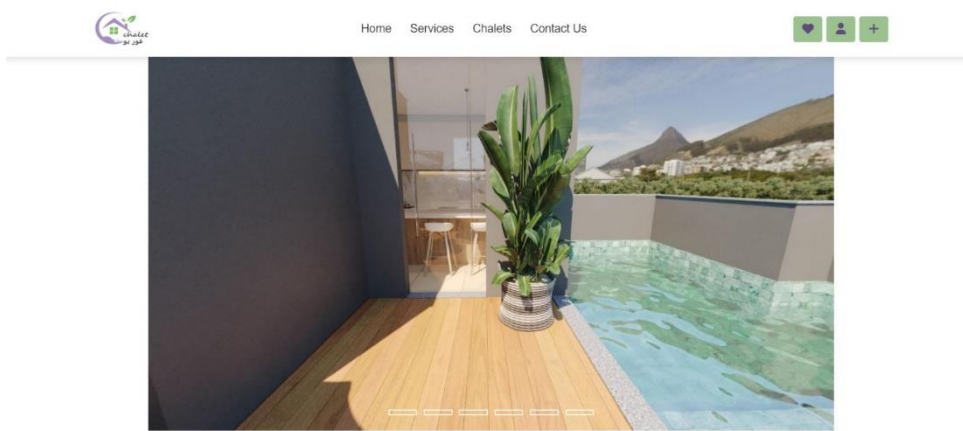
Cancel Booking View Chalet

List of users who booked the chalet.

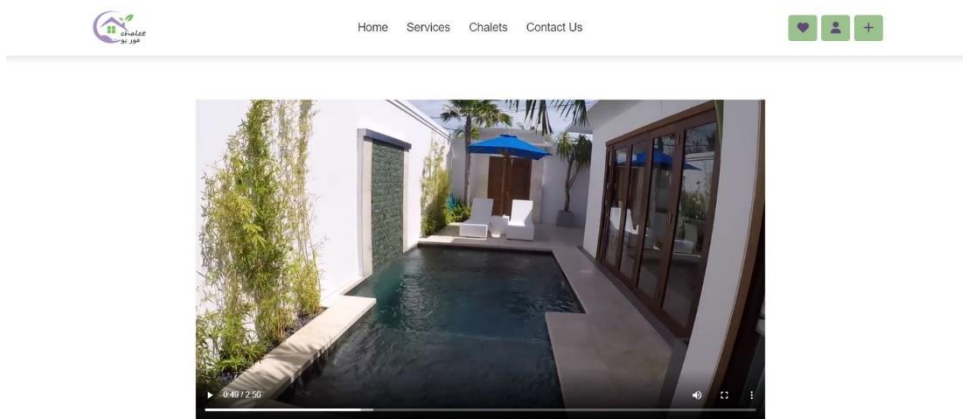


All Chalets

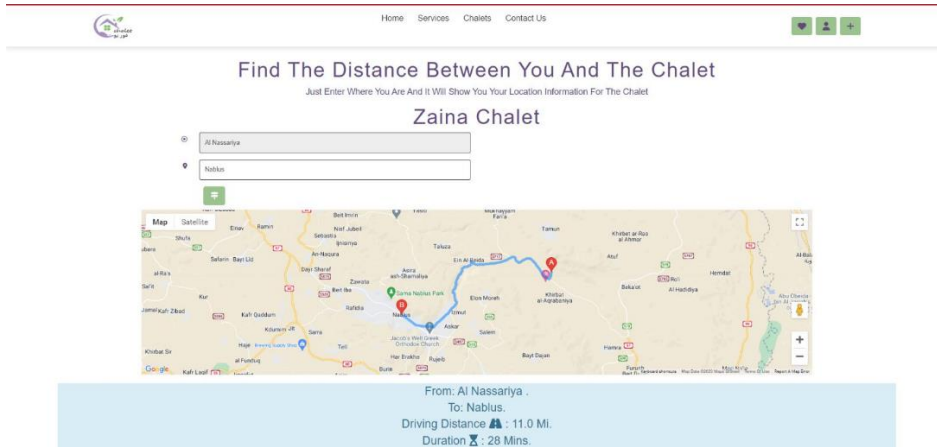
Search for a chalet with certain specifications, using several filters.



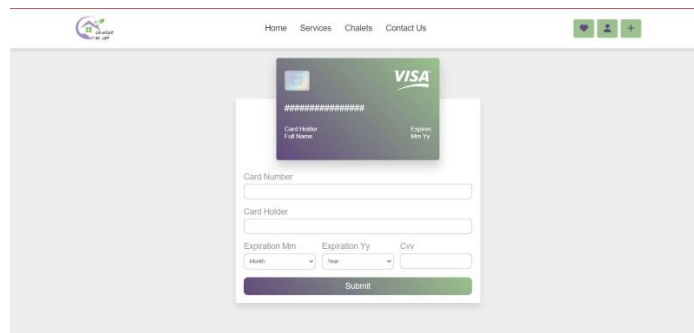
3D view of the chalet



Vedio for the chalet .



The map.

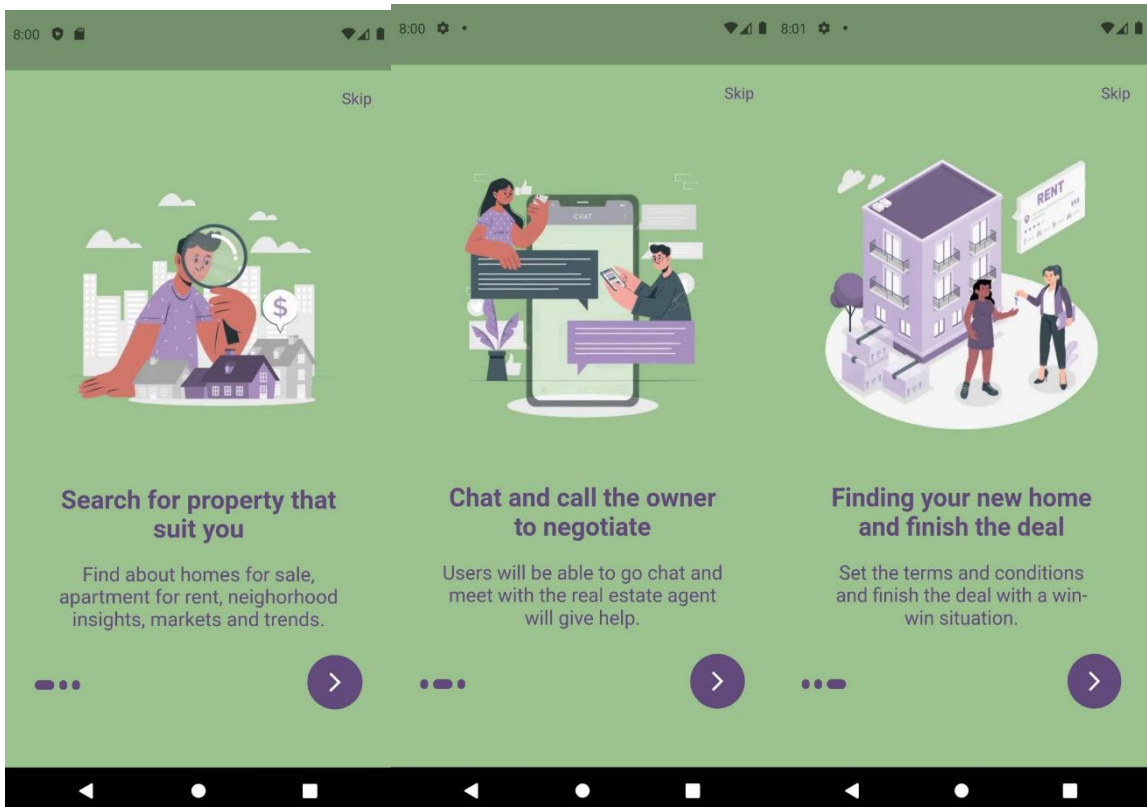


Payment information

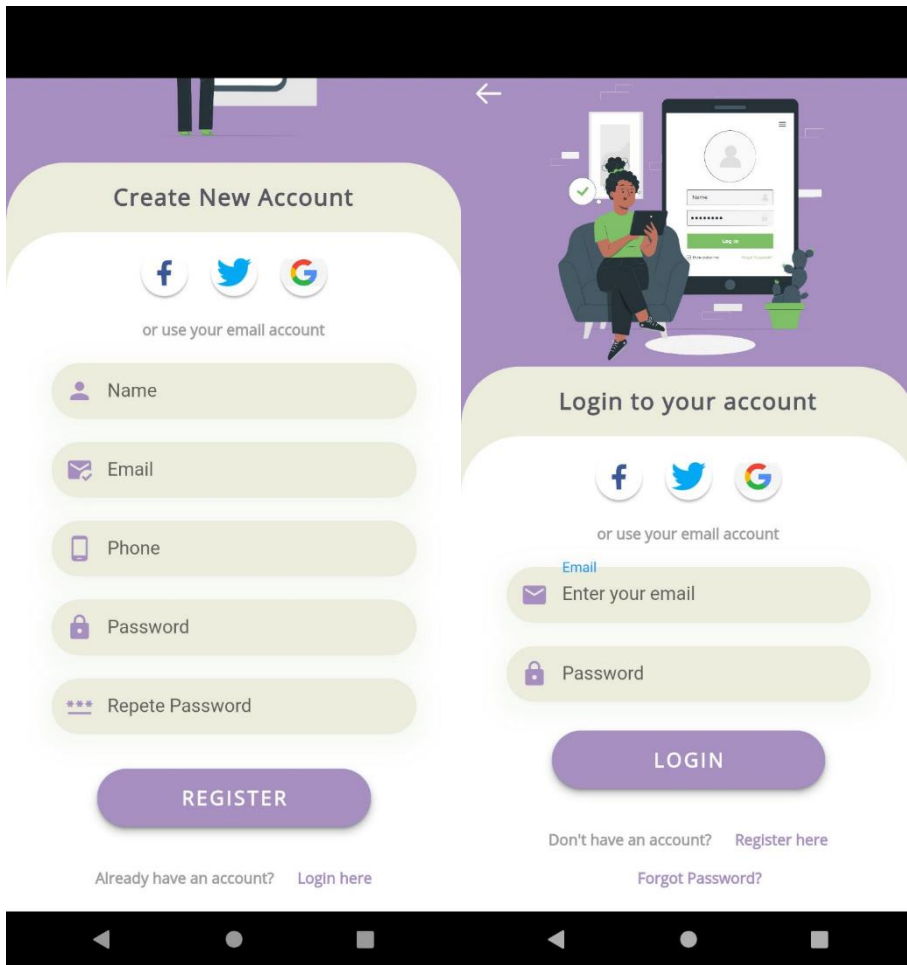
mobile Part



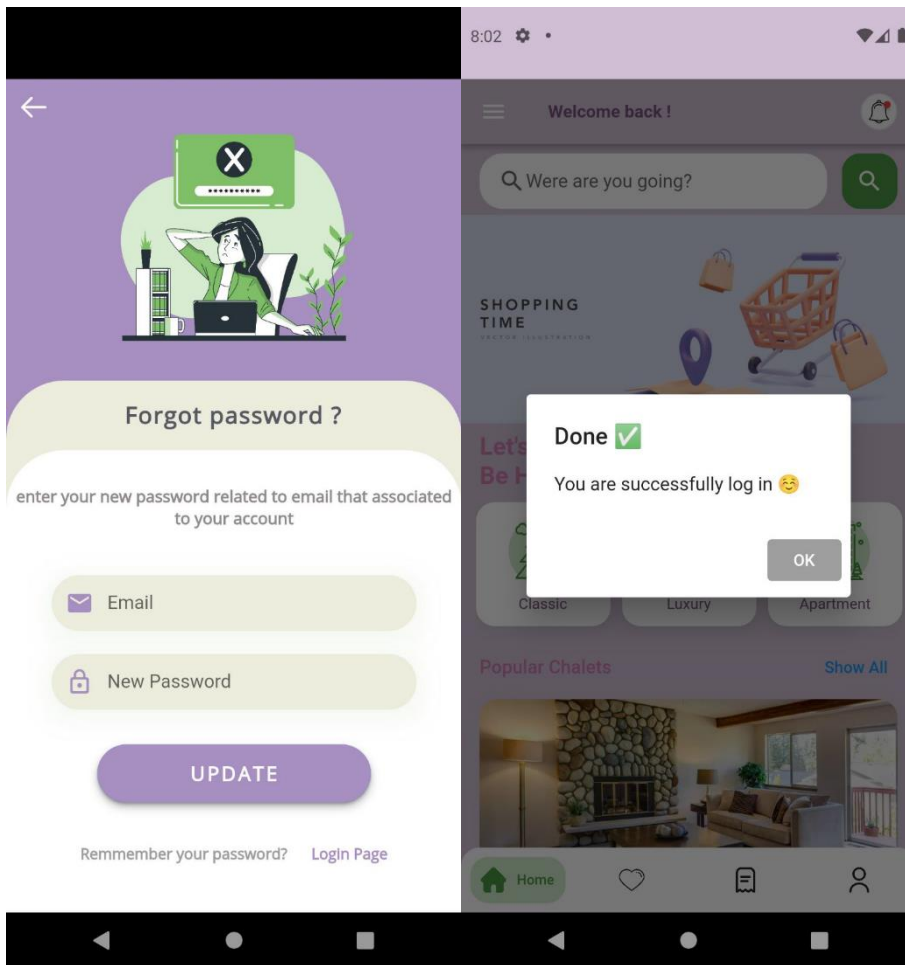
Splash screen



Onboarding screen.

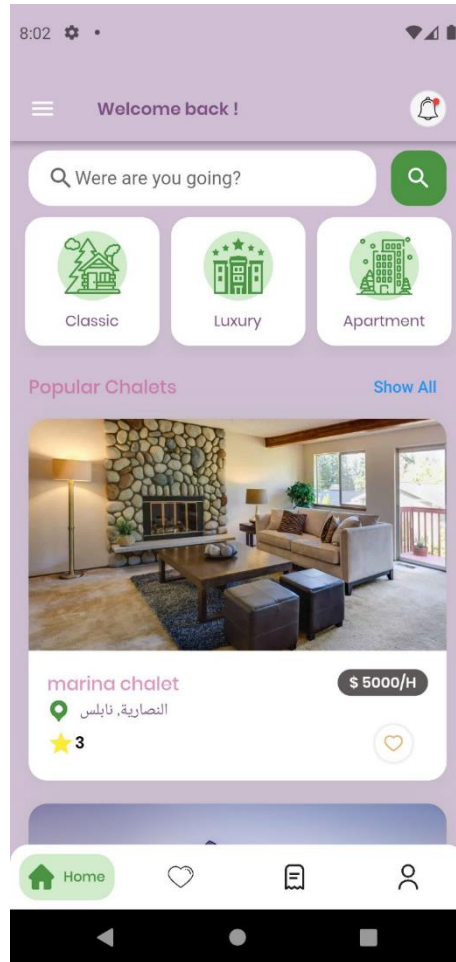
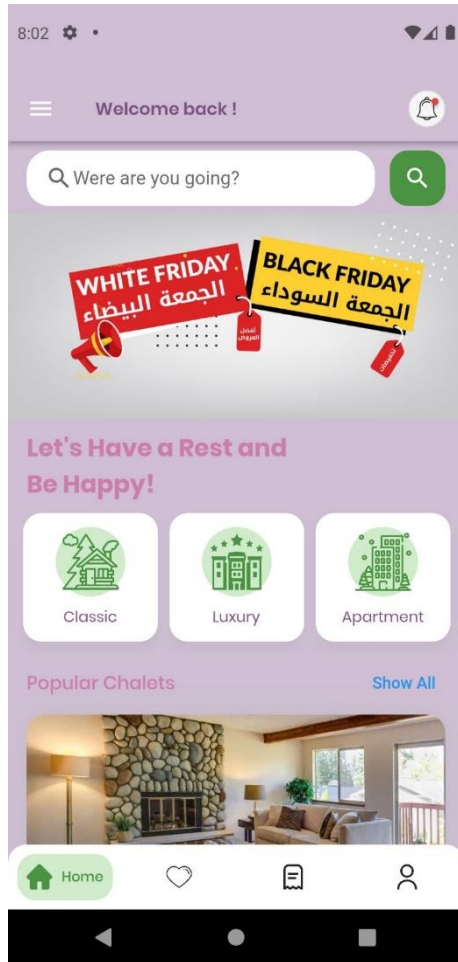


Sign up & Login Pages.

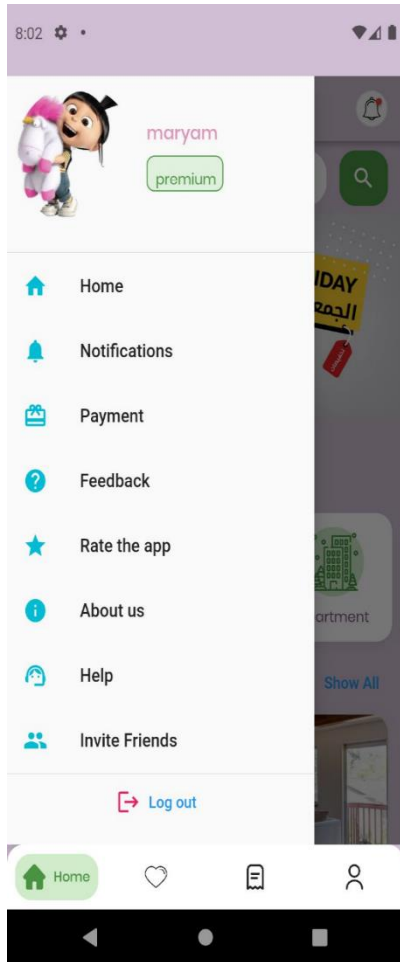


Forgot Password

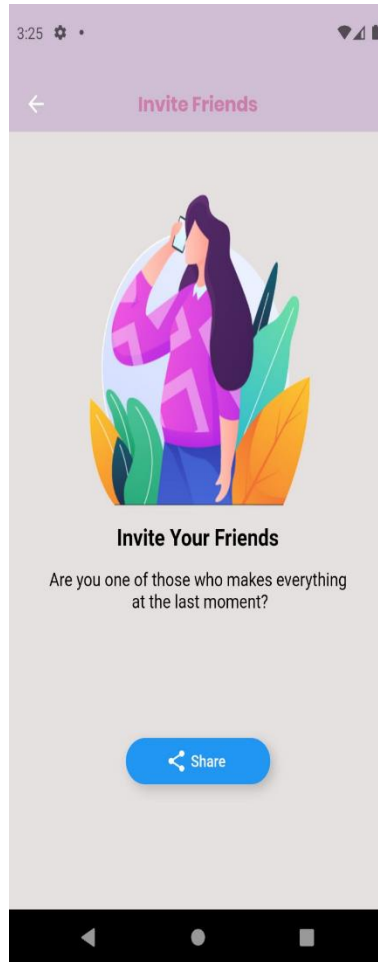
After login



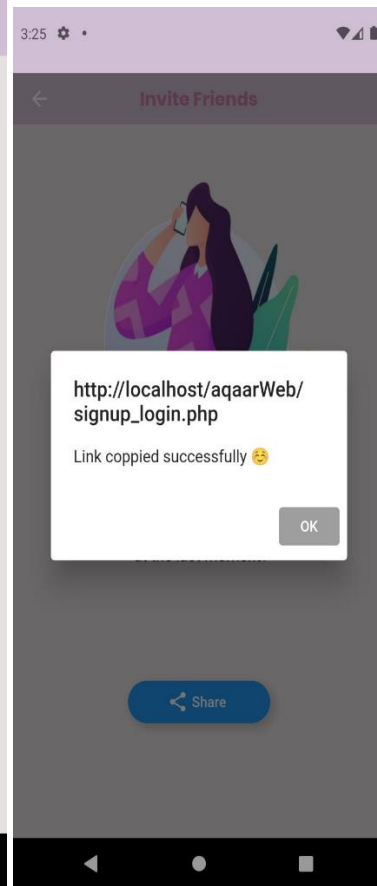
Ads appear here, and chalets arranged from highest rating to lowest.

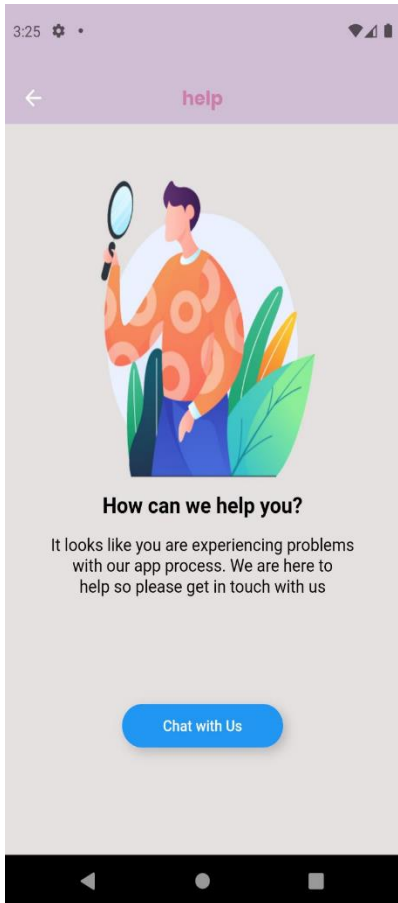


Over the drawer

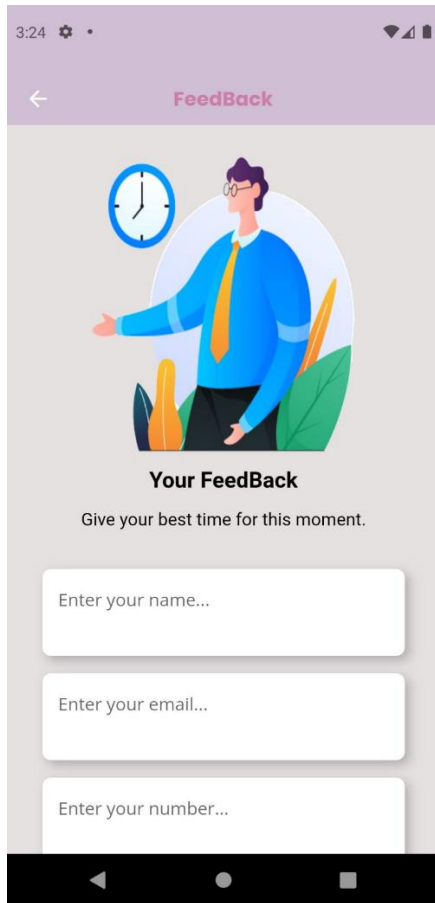


Invite Friends

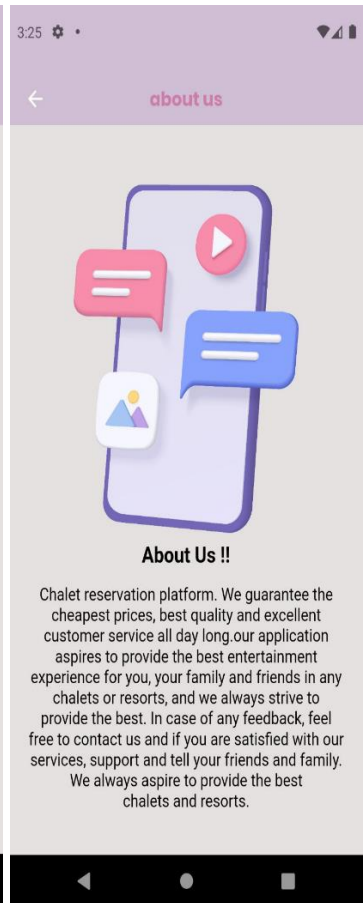




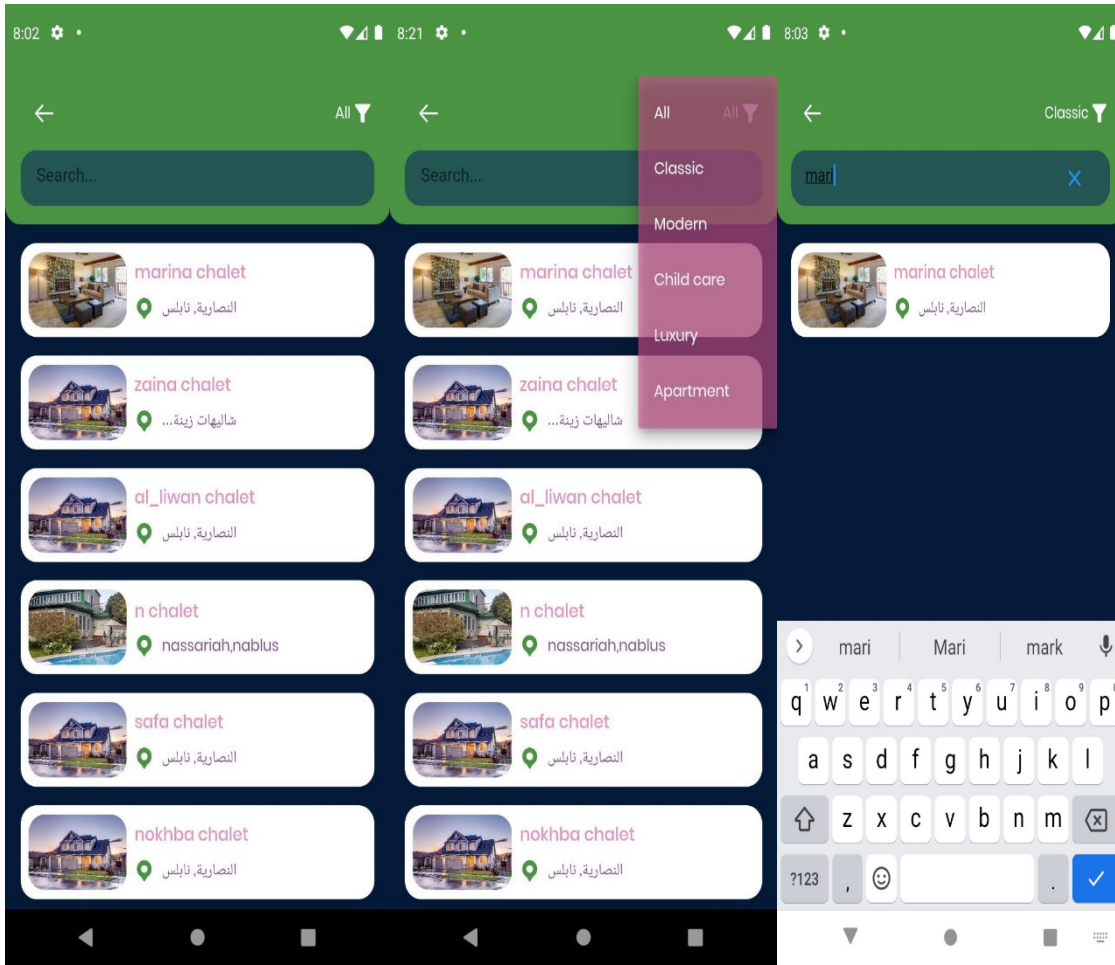
Help page



feedback page



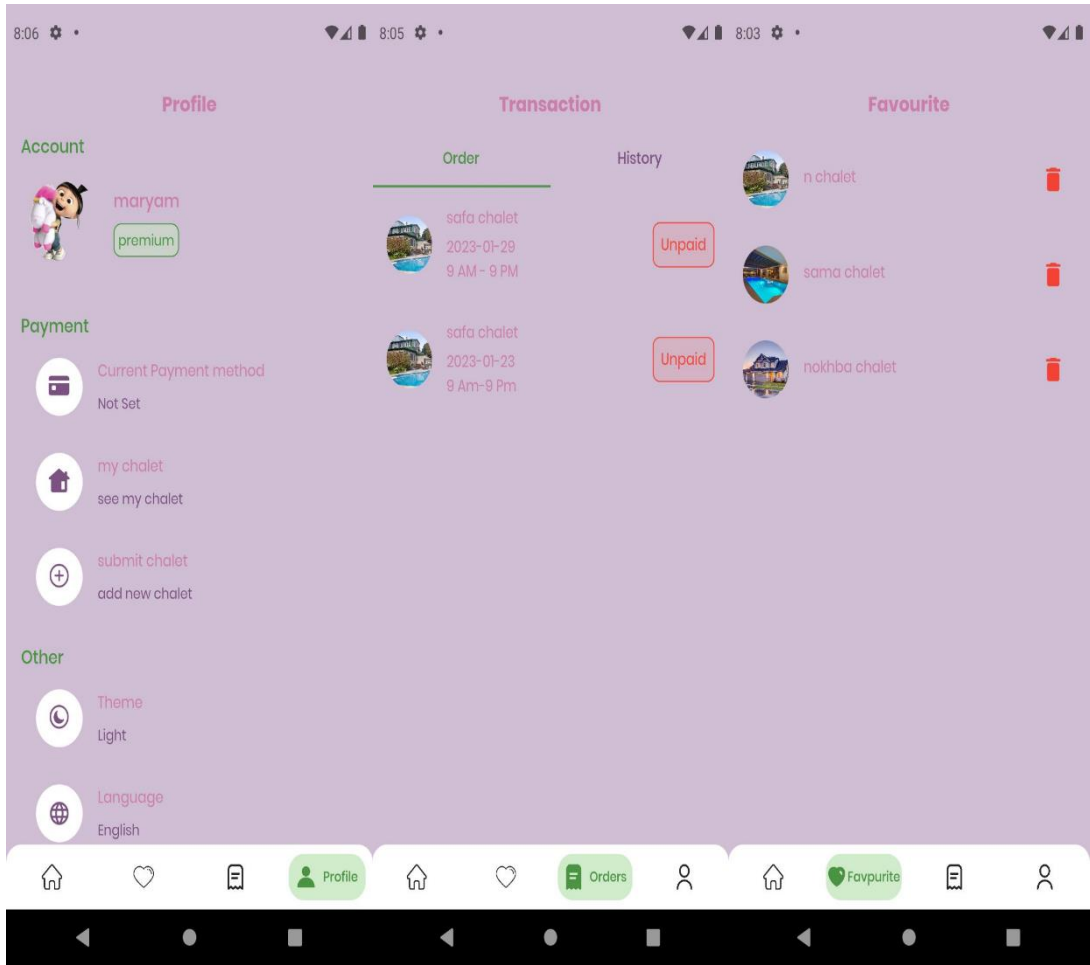
about us



See all tab with ability to search.

Filtering by category

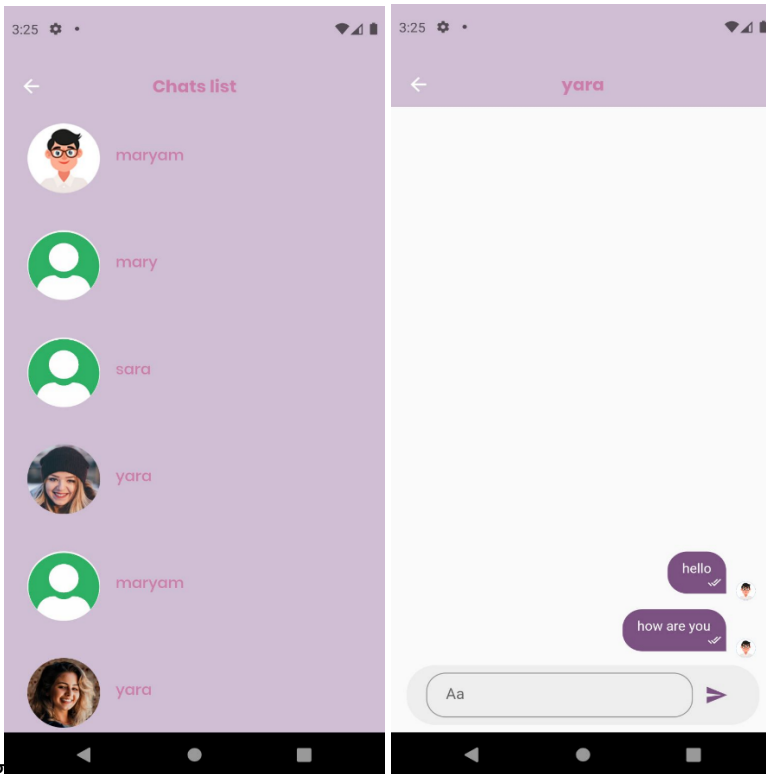
Filtering by chalet name



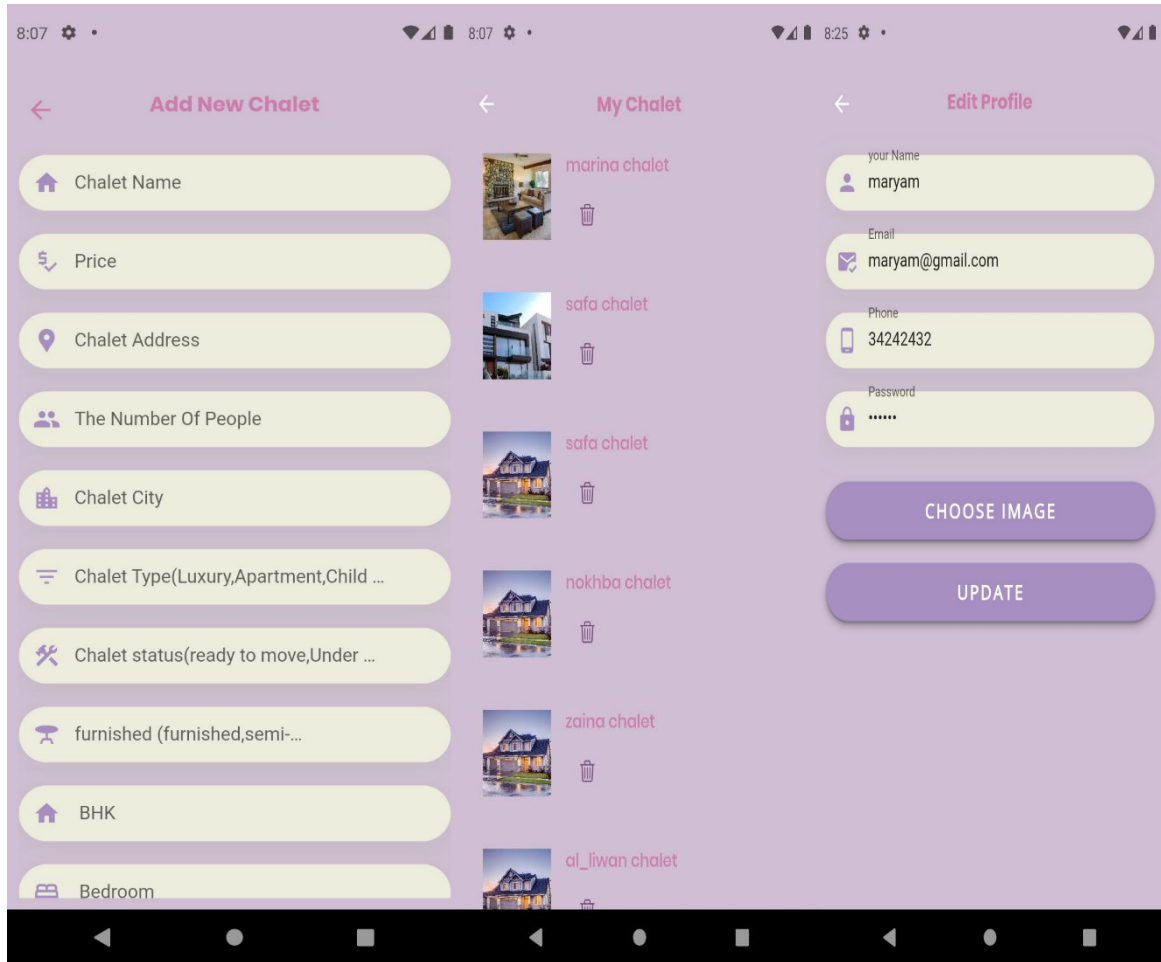
Profile Page

Order list

Favorite list



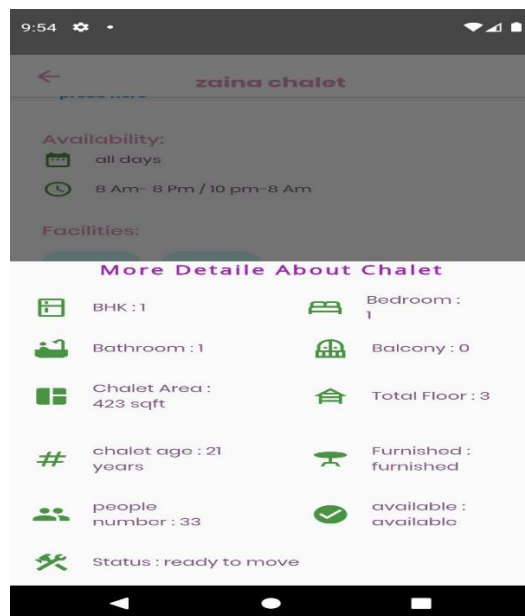
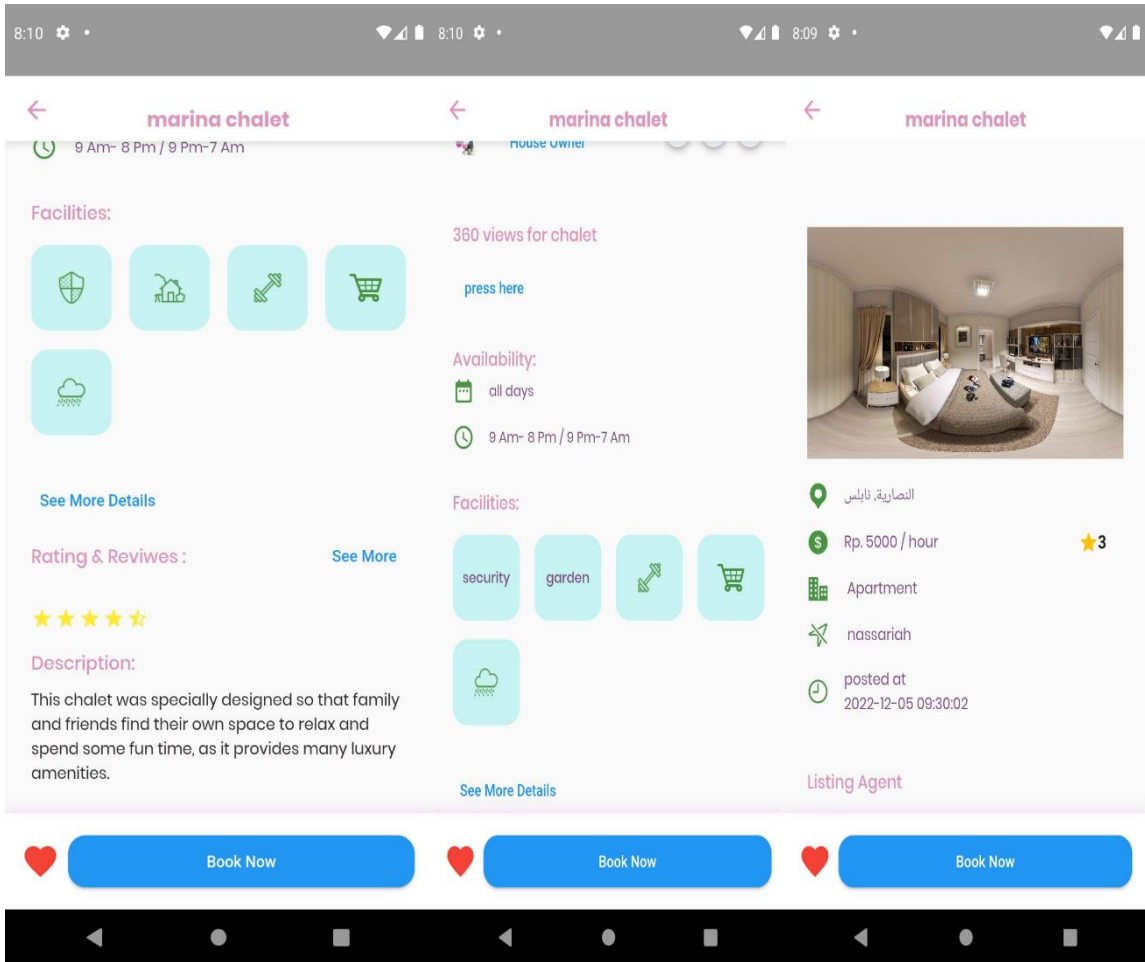
Chatting



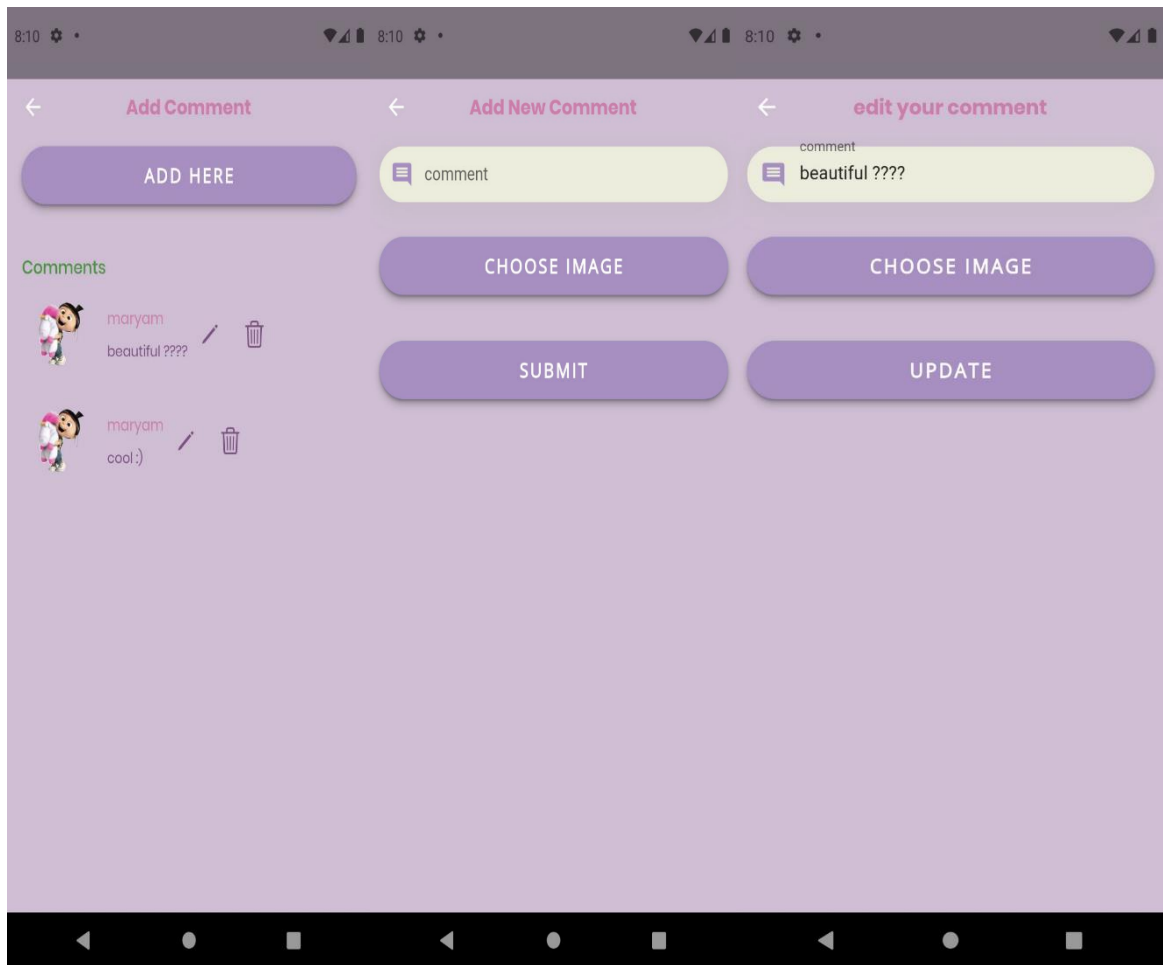
Edit Profile

Chalets /user

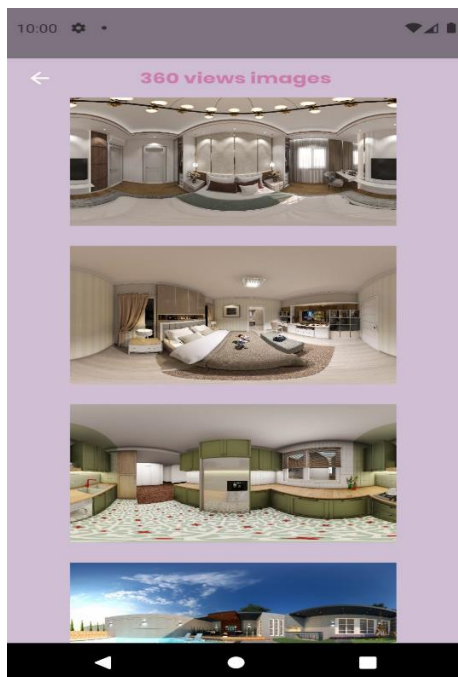
posting chalet and edit it



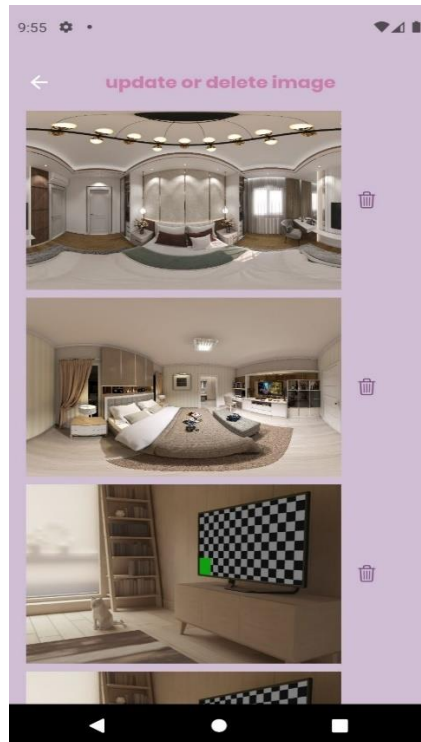
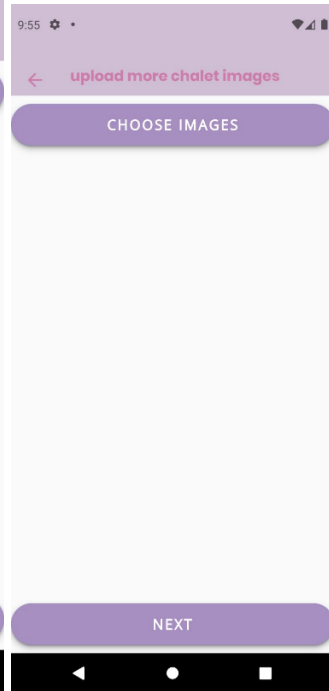
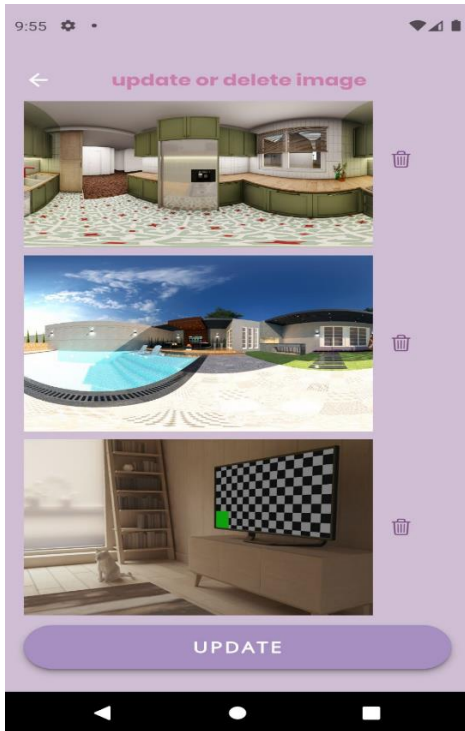
Chalet details



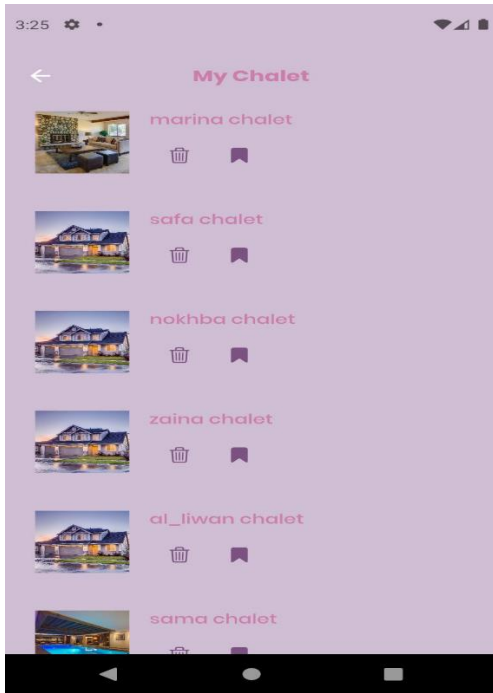
See,add and edit comments.



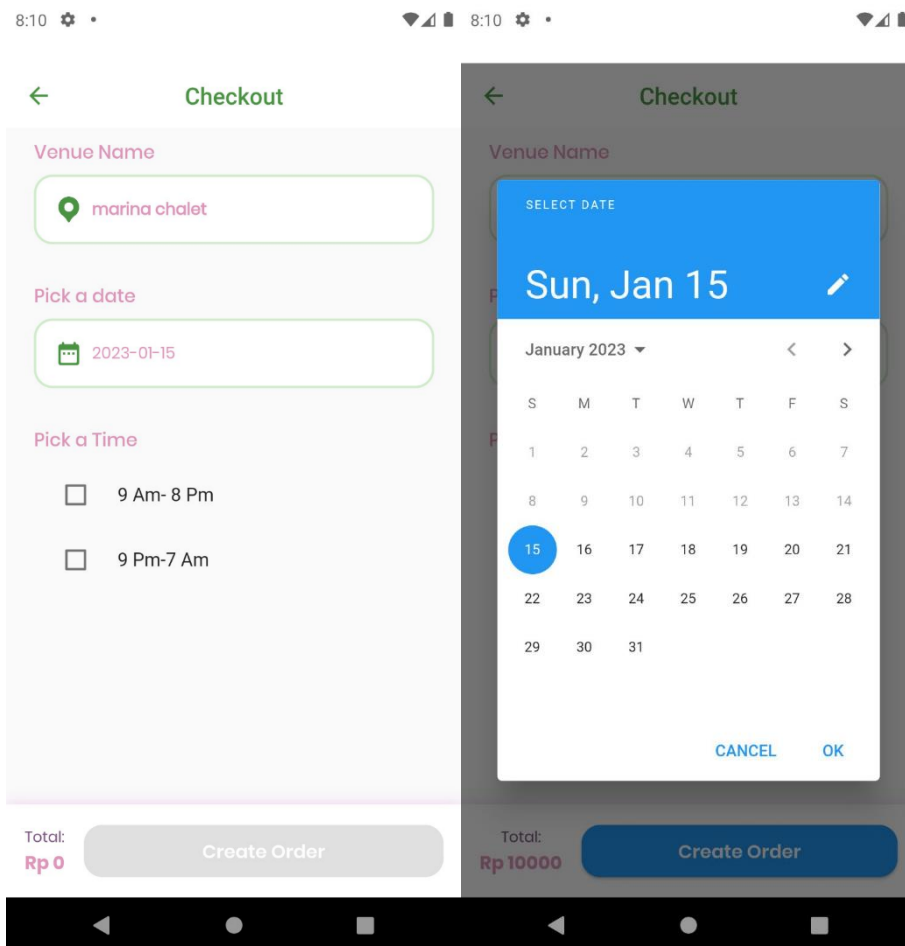
3D Images



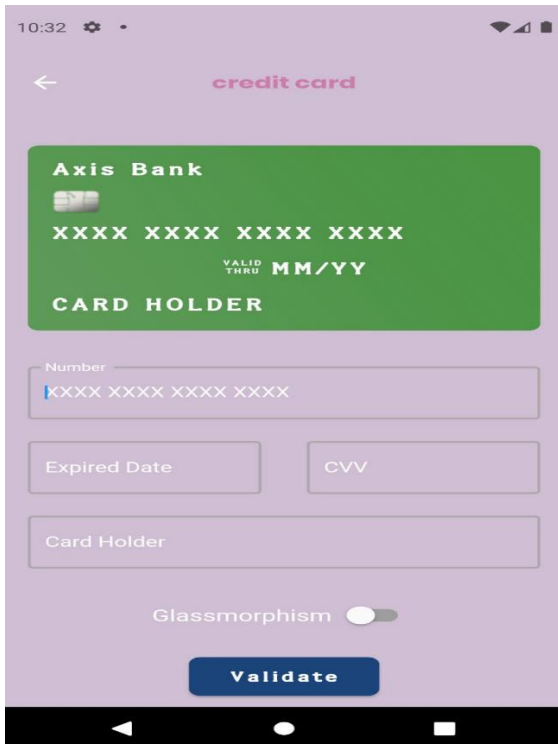
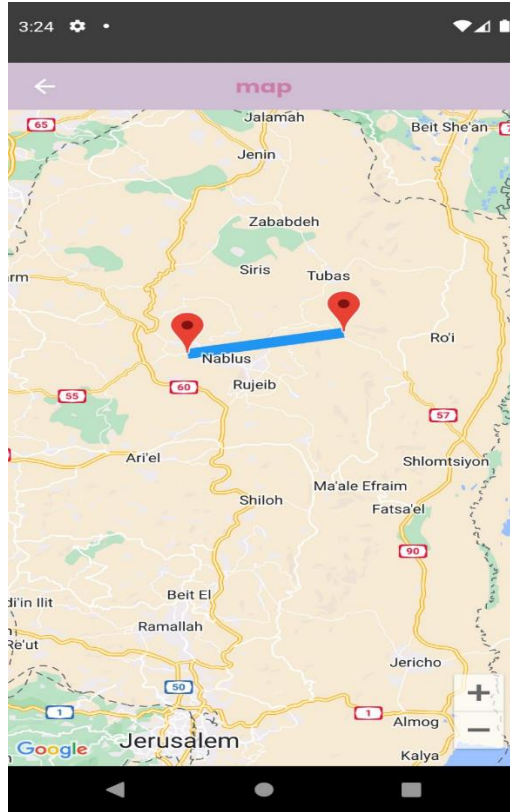
Upload ,edit,delete (several images-panorama/original-)



my own chalets



Booking chalet



payment information

## Chapter 5: Results and Discussion

Chalet فوريو is a multi-platform mobile application that aims to serve chalet owners and people who are looking for a chalet for recreation with the specifications they desire, in addition to putting these people in the picture in everything related to the chalet in order to increase transparency and credibility in reservations.

This application allows the creation of accounts so that each account holder can be an owner and a regular user at the same time, so that he can view the chalets that he owns to be booked by users and also he can reserve any of the existing chalets that are not vacant. There is a communication system between all users that allows them to exchange messages or hold discussions. All this gave us experience and knowledge, however The goal certainly involves many challenges and difficulties and learning new things, that is what They will be mentioned in this chapter.

## Outcome of the Project

### Learning:

Making sure that a new language is used effectively also takes time and effort, especially when learning it requires serious study on these topics .

We worked with a completely new technology that we had not used before. We chose Flutter as the platform, and used many online resources to facilitate learning.

### Challenges:

We had many problems, one of the main ones was that it was all on short notice

- The version needs to be updated, and this causes problems with the named libraries in the code so the libraries must match the version, so we have to modify it to match release.
- It is not always clear why exceptions and errors occur in the code, it requires time researching and checking to see what the problem is, then working on it.
- Collecting images and data about the chalets that we provide in the application, this the matter was rather difficult and needed help from architects.
- Partial or almost complete separation from the project in a period of about two weeks due to travel.

## Chapter 6: Conclusion and Recommendation

Chalet فوريو is an application that helps people who are looking for a chalet to spend a night, a day, or more somewhere in an easy and effective way, in addition to the possibility of benefiting from the comments that were added from previous customers. It is also important for the owners of chalets, as he adds its own chalet with vacant rooms, which Facilitating customer access to the desired rooms.

## Recommendations

It needs greater attention because mobile app development has grown to be a crucial subject in computer science and engineering programs. It will save time and effort for students if there is a course that teaches them the fundamentals of creating applications.

## Future work

We don't want to just stop there, there are a lot of features that we want to enhance, and some that we want to add to our app, such as chat system: We want to enhance it to include voice messages, video clips, as well as the ability to create groups.

In addition to developing the features of the map used within the application to include the tracking system from the customer's location to the chalet he wants to reach.

In addition to using the QR scanner system within the mobile application to ensure that the customer arrives at the chalet at the time of booking or vacates the place at the end of the specified period.

## Chapter 7: References

*App Store*. (n.d.). Retrieved from <https://apps.apple.com/us/app/jelsat-book-chalet-camp/id1310616599>

