Report Project CPIT-280

FCIT waves application

Prepared by

Rana Alshehri 2005625

Jomana Sameer 2005725

Abeer Aljohani 2005989

Lama Albelewi 2005630

Prepared for:

Abeer Al-makky

Department of Information Technology

Table of content

Table of content

Abstract

HCI (human-computer interaction) is the study of how people interact with computers and to what extent computers developed for successful interaction with human beings. A significant number of major corporations and academic institutions now study HCI. Historically, computer system developers haven't paid much attention to computer ease-of-use. Many computer users today would argue that computer designers are still not paying enough attention to make their products "user-friendly." However, developers might argue that computers are extremely complex products to design which makes their capabilities always a step behind, compared to users demand.

Introduction

In this project an interactive application System will be designed. The system is user-friendly and must Satisfy user's refinement.

HCI design approach was applied focusing on Ben Schneiderman's eight golden rules, the application is designed to be: Usable, learnable, memorable, effective and Efficient.

To Understand users demand, a google form has been established with the Participation of (15) users the Vision on how to design the application has become clear. Finally, another survey was published on users for the evaluation of the design.

One worth mentioning note, is that the scape of work involved every step from requirement gathering to the final prototype.

Problem Description

Maritime activities are one of the most financially profitable However, it has been noticed that tourists are facing difficulties in reserving these activities. Scuba diving for example usually has long waiting lines that people may get bored and leave out the line. This in result causing loss for business owners.

As a Solution, a design of reservation application has been proposed. (FCIT Waves) will allow the users to pick a time, date and how many Person will participate in the activity as details of reservation.

Finally, a check out process will involve payment for confirmation and QR code will be sent through email so it can be scanned later.

Proposed Solution

According to the previous problem, we decided to design an application that make users reserve available activities in Coastal cities located in Saudi Arabia. They can choose time, date, and number of riders. At last, they pay to confirm the order and a ticket of order with QR code will be printed.
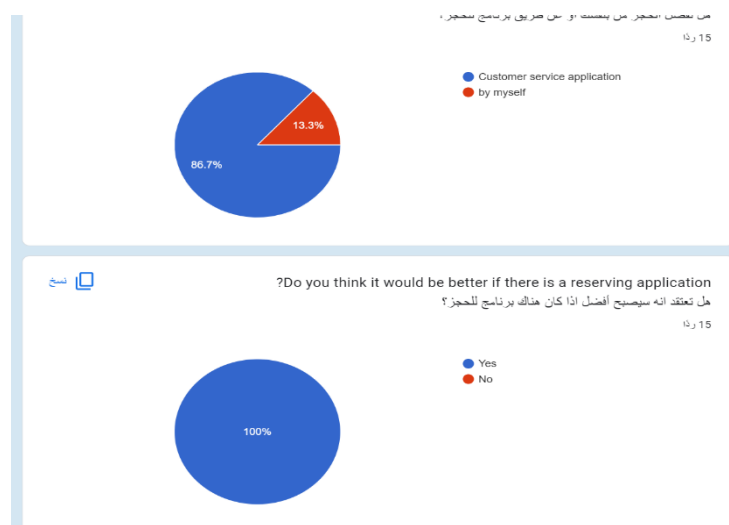
Requirement Gathering

Questionnaire

A questionnaire has been model to help gather requirements from users and understand the costumer's needs and current system problems.
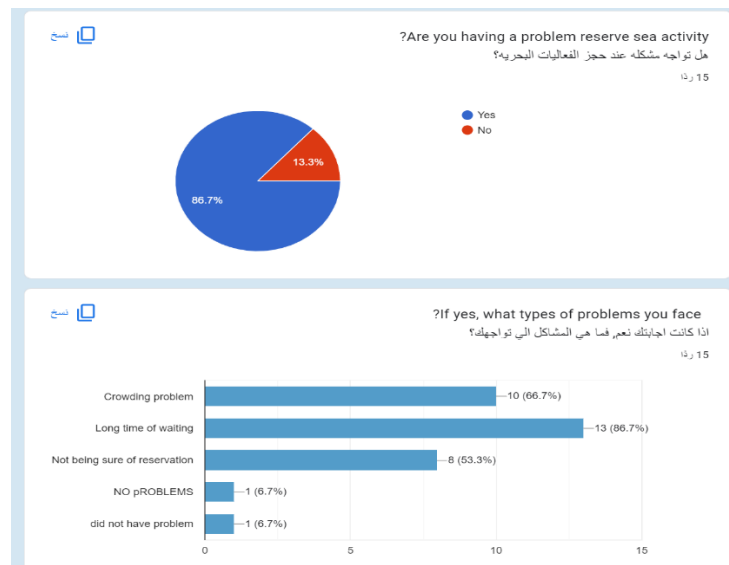
1 Figure

2 Figure

3 Figure

5

Requirements

Non-Functional Requirements:

- The process of checking user confirmation code after paying with credit card should be within 10 seconds.
- on success payment, a conformation page shall be displayed to the user otherwise, user will be redirected to payment page again.
- The system shall send the reservation information to the administrator.
- A receipt will be generated by the system and sent to both administrator and user.

Functional Requirements:

- The system shall allow user to choose between Arabic or English language.
- The system shall allow user to choose between sign in or sign up.
- The system shall allow user to select the city.
- The system shall allow user to access the activity.
- The system shall allow user to browse the companies .
- The system shall allow user to choose the date, starting time and number of persons.
- The system shall allow user to reservation details .
- The system shall allow user to pay with either MASTER or VISA card .
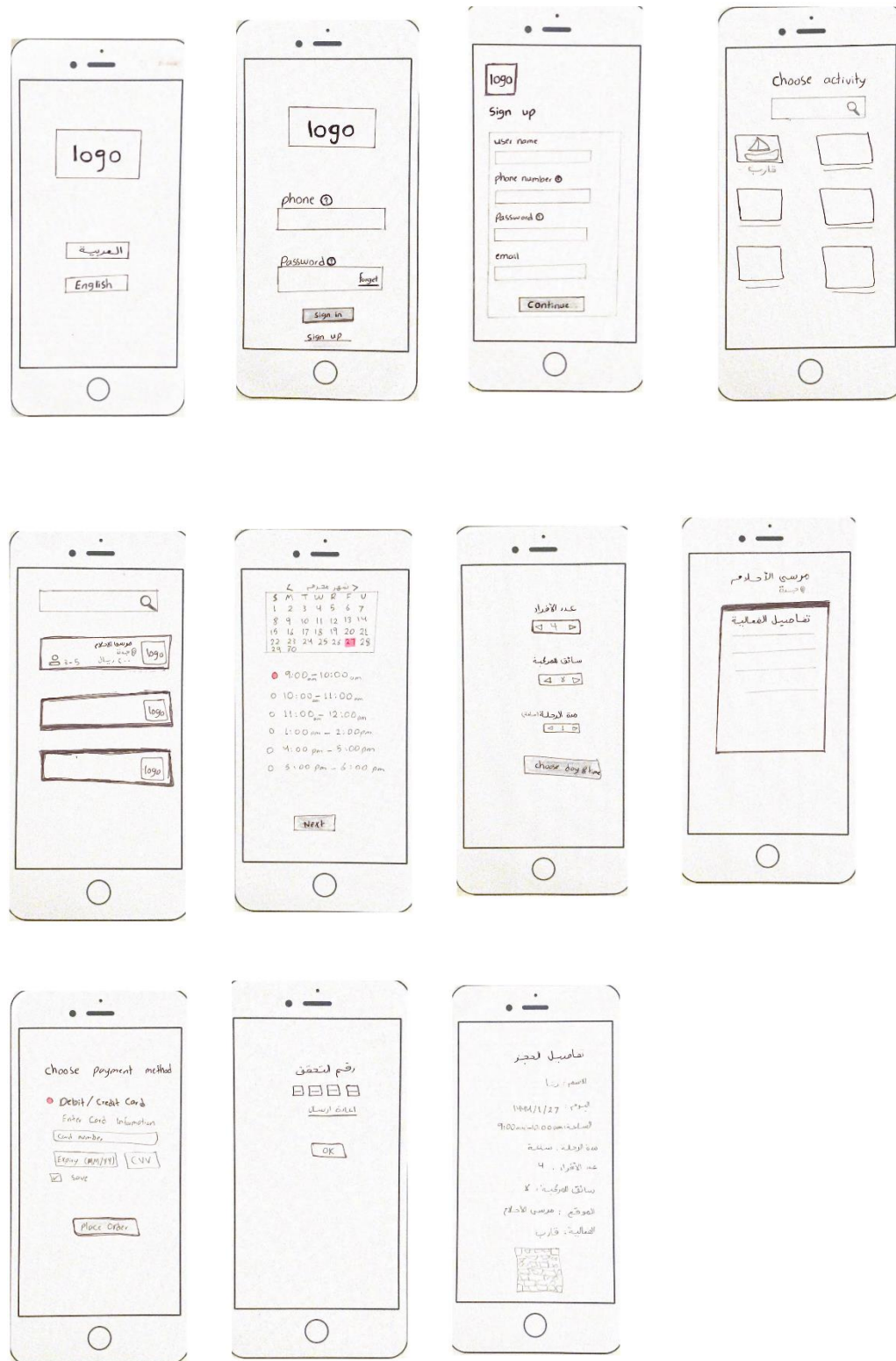- The system shall allow user to print the reservation ticket details.

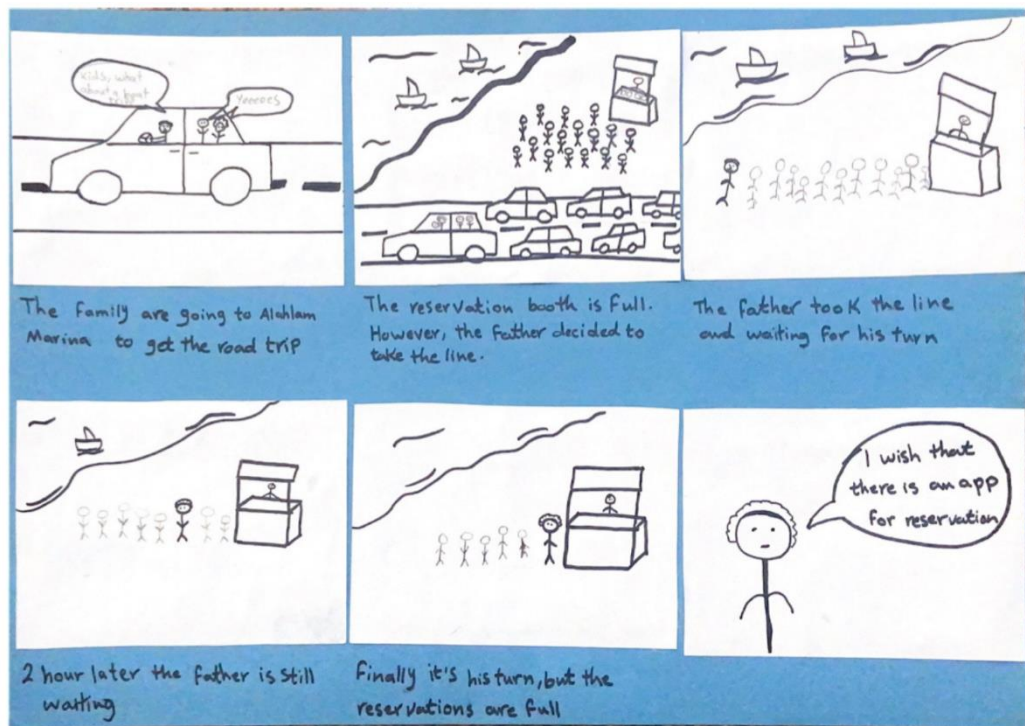# Analysis and Design

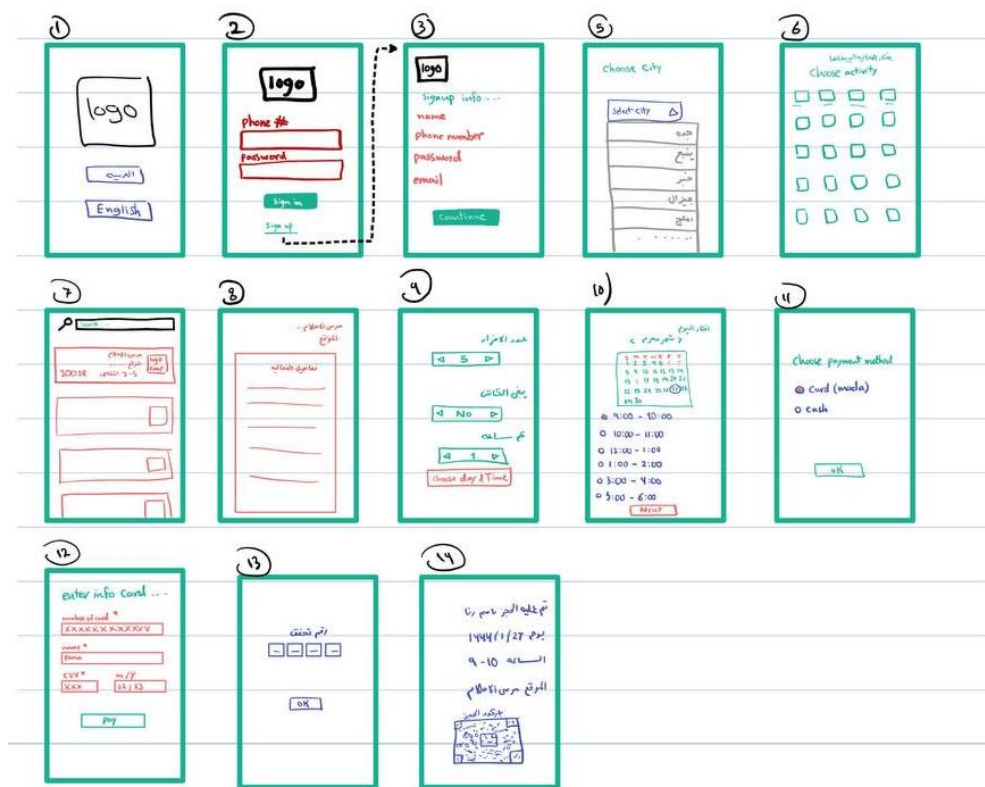## Use Case Diagram
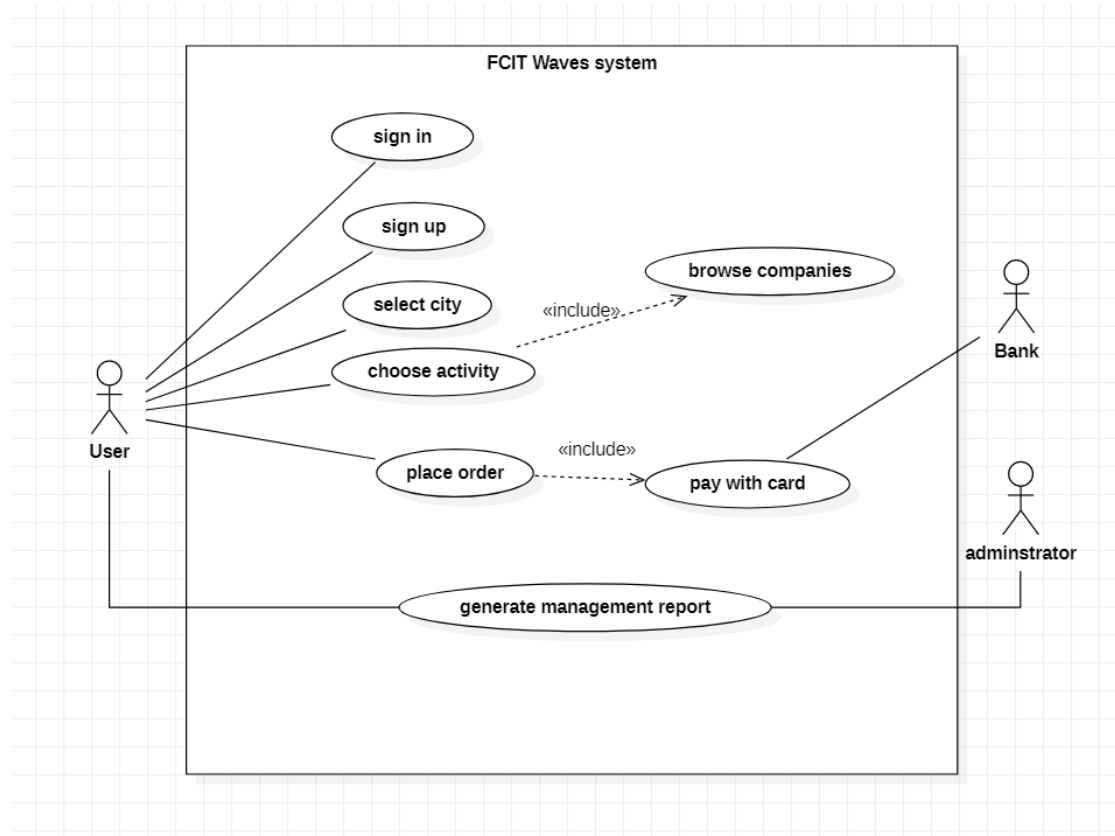
4 Figure

low Fidelity Prototype

5 Figure

Story Board

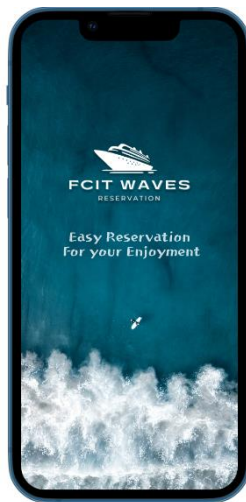## Sketch

9

High Fidelity Prototype (FCIT waves interfaces)

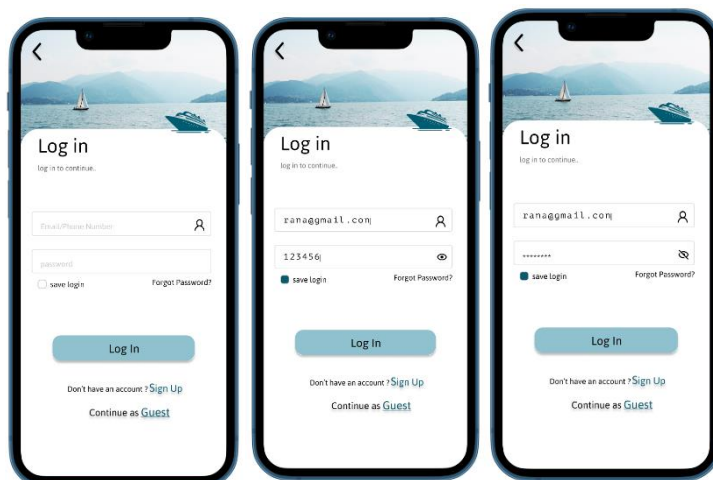Link for application design in Figma: FCIT waves application (click here)

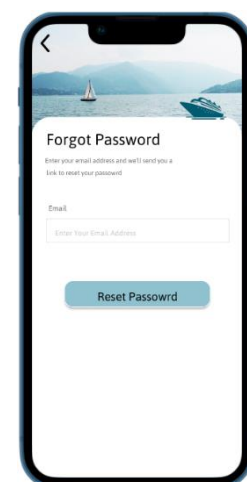
8 Figure

Logo of FCIT wave has been designed.

9 Figure

The user can choose the preferred language. when the user moves the mouse above the button, the color of the button changes.
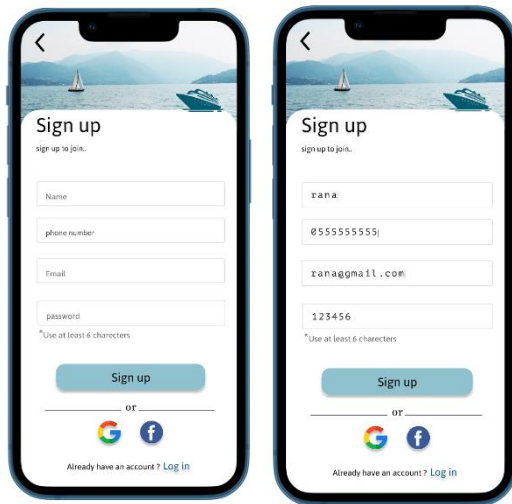

11 Figure

The user can log in, (he/she can type the email/phone number and, the password). The user can either show or hide the password. Saving user information is also possible
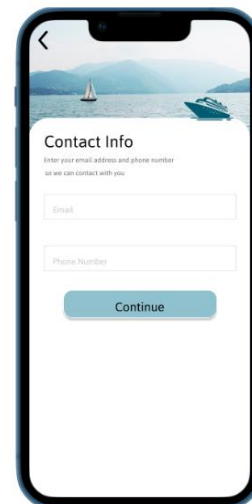

12 Figure

In case the user forgot the password, he/she can reset the password through the email then, log in with the new password.
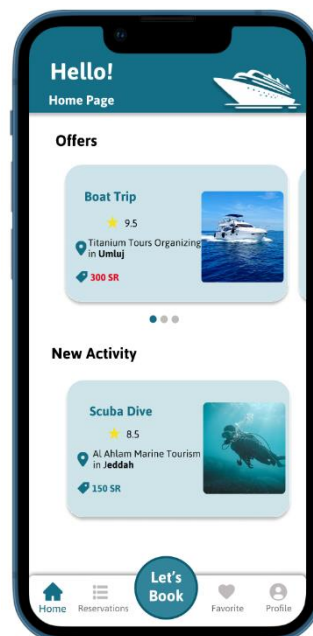
13 Figure

14 Figure
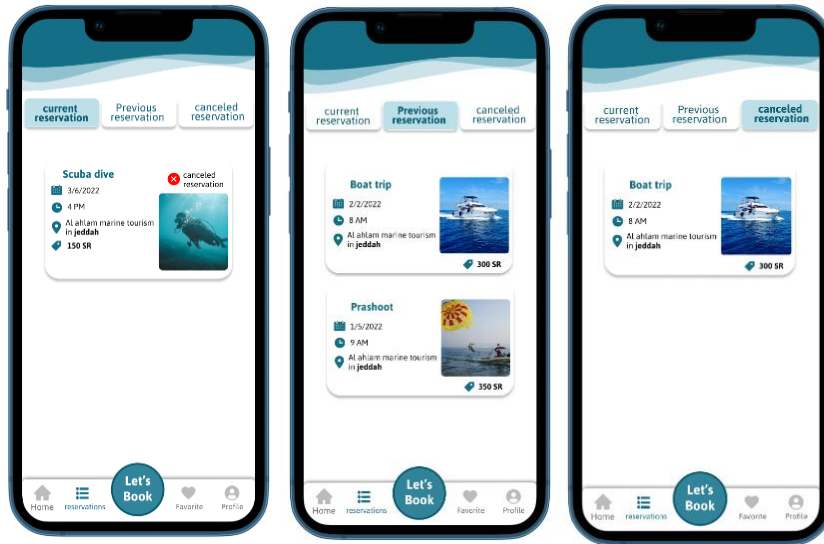
The user can sign up if he/she doesn't have an account.

If the user doesn't want to log in, he/she can continue as a guest by entering the email and Phone number.
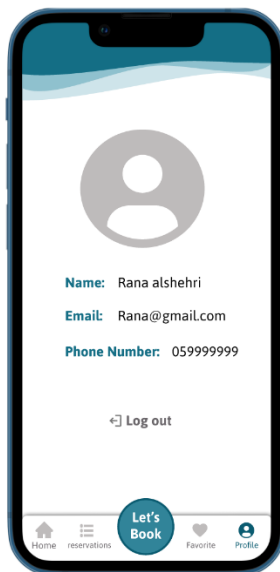

15 Figure

After logging in, the user can access to the home page and can check up the offers and new activities.
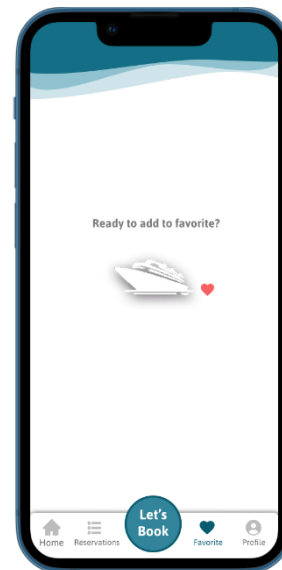
16 Figure

The navigation bar also contains "Reservations". The user can check the "Current Reservations", "Previous Reservations" and "Canceled Reservations."
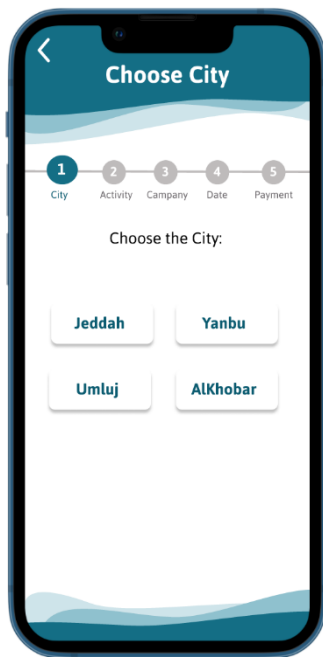

17 Figure

18 Figure

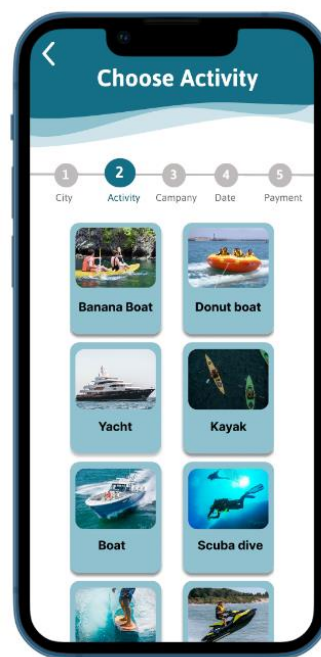The user can check the profile information: Username, Email and Phone Number. The user can log out if wanted.
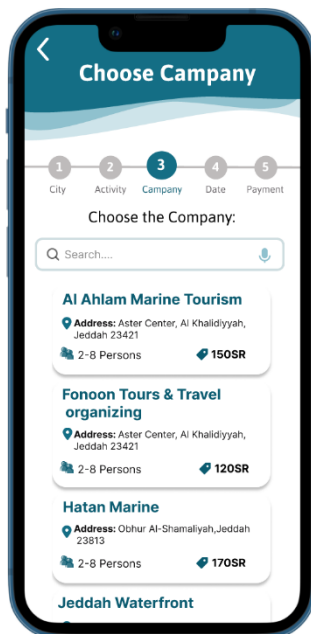
The user can check the favorite activities he/she added.

When the user clicks on "lets book" button, a page of choosing the city will appear. The user chooses which city to check the activities in.
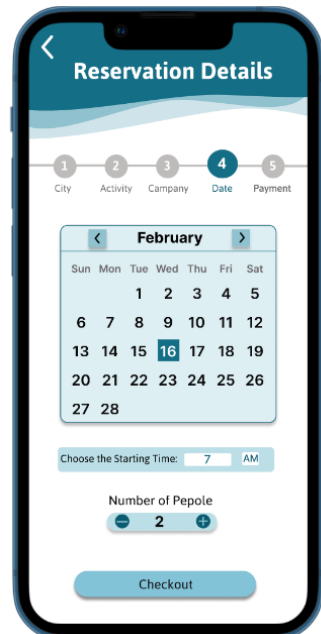
list of activities that are available in the chosen city will appear.

After choosing the activity, the user will move automatically to "choose company" page. It includes information about the company and the price that it offers for certain activity.
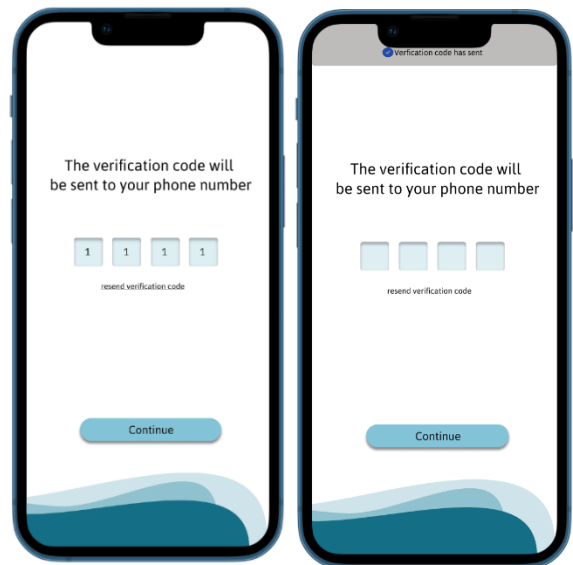
The user should select the date, starting time and how many people will ride in the chosen activity. After fill in the details page, the user will checkout.

13
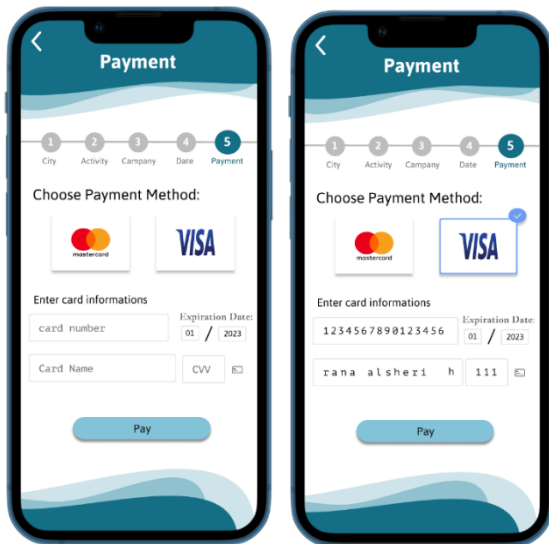
23 Figure

The user can choose the payment method then, fill in the card information. And finally, clicks on "pay"

24 Figure

The user must enter the verification code sent to his/ her mobile number to make sure that transaction issued by the credit card holder. If the user didn't receive the code, he/she can click on "resend verification code" and a notification will appear to let him/her knows that the code has sent again.
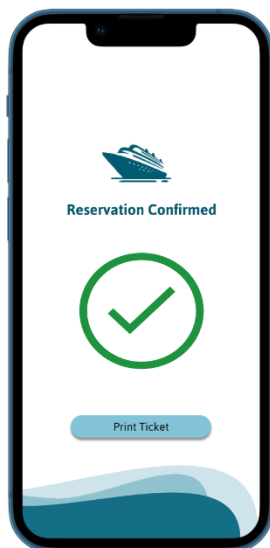
25 Figure

A reservation confirmation page will appear automatically after paying for the reservation. The user can print the ticket

26 Figure

The ticket has information about the reservation details also, added QR code to simplify the process. The user can go back to the home page.

Useability Testing

A google form to get the reviews from random users have been created:

28 Figure

29 Figure

30 Figure

Challenges and future work

- The most challenging thing we faced is to understand how Figma works. We locked up for many resources to understand and start working on it.
- We faced a problem in figuring out how to let the user enter at the input field. We locked up for many resources, after a day of researching we found one way and, that was effective.
- We had another problem in hiding the password, we have searched for a long time but, we didn't find anything to add this property. We solved this problem in another way.

Conclusion

In conclusion, after working in this project, the knowledge we gained from this course will never forget, because we practiced it over a long period of time. Sometimes we forget a rule we learned, so we go back to the book and make a quick revision. Moreover, we improved our skills by learning new application design tool.

Table of Figures

References

- Learning how to activate the Input field interaction:

- Learning how to create a search bar:

- Learning how to create an interactive calendar in figma: