

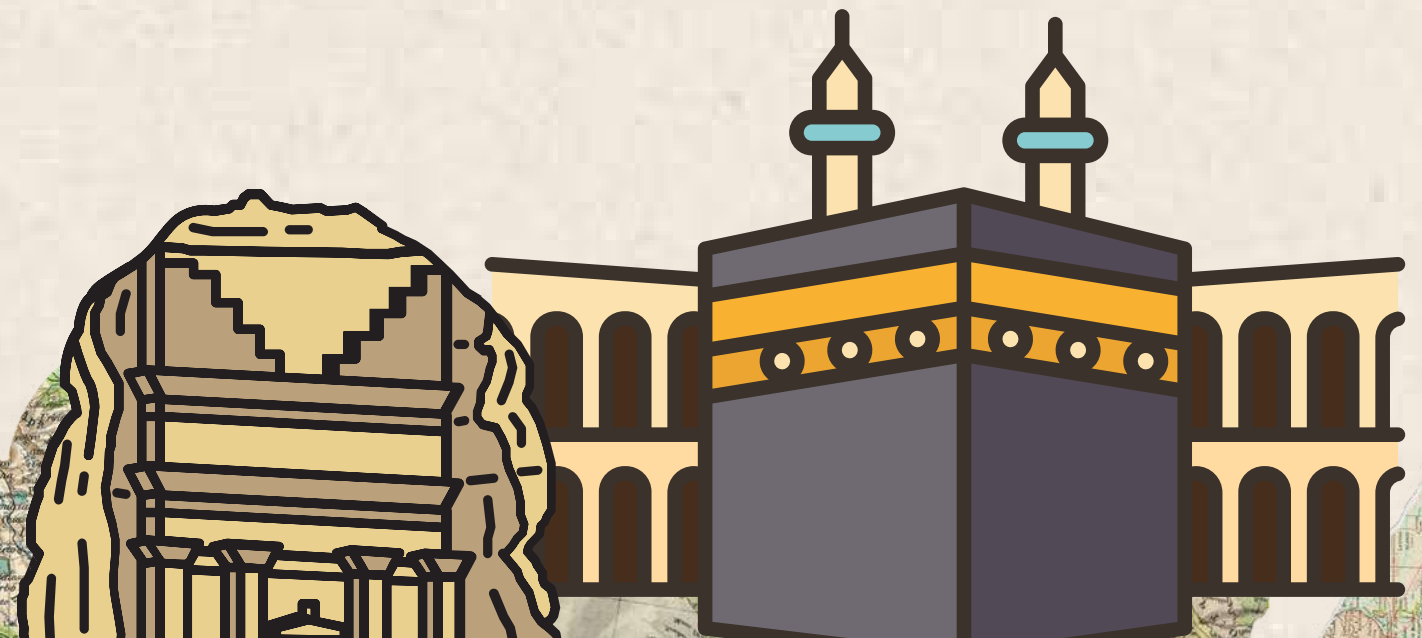


# Software engineering project



# على وين؟

in the Kingdom of Saudi Arabia





# Chapter 1







# The Application idea:

The application can provide services to tourists and all people such as providing information about famous landmarks, shopping places, cafes, and handicraft workshops, also providing information about recreational activities and nightlife in the area, as well as ticketing services for the events.





# The Application Type:

## Interactive transaction-based applications.





# The user categorie:

Anyone of any age, from  
anywhere in the world.

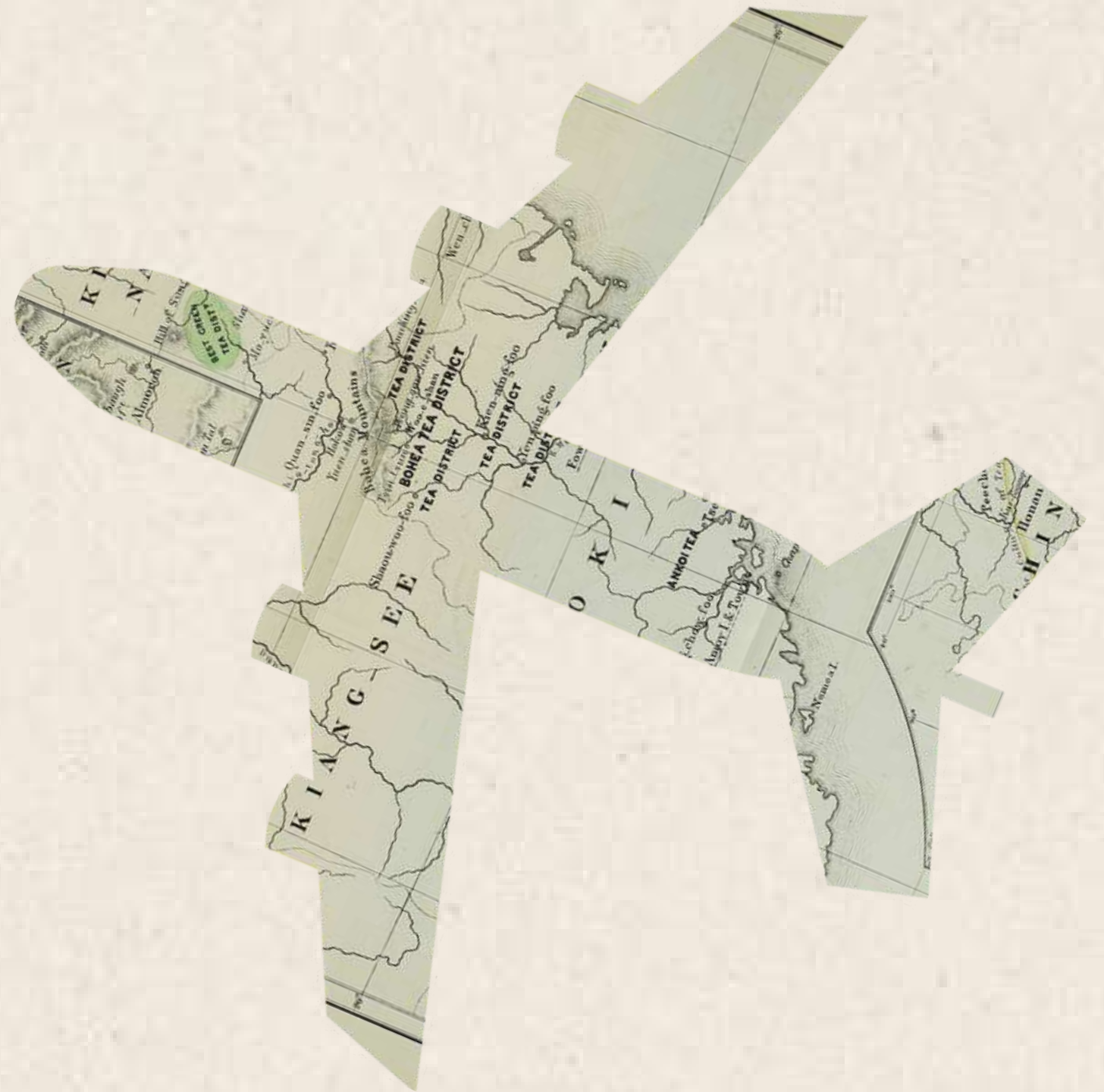


# Chapter 2





# functional Requirements:





# Requirements specification (services):

01. create account

02. Login

03. Add to favorite





04. Book a place

05. Pay for a ticket

06. Print the ticket

07. write a comment





1- create account "user":

the user shall be able to create an account

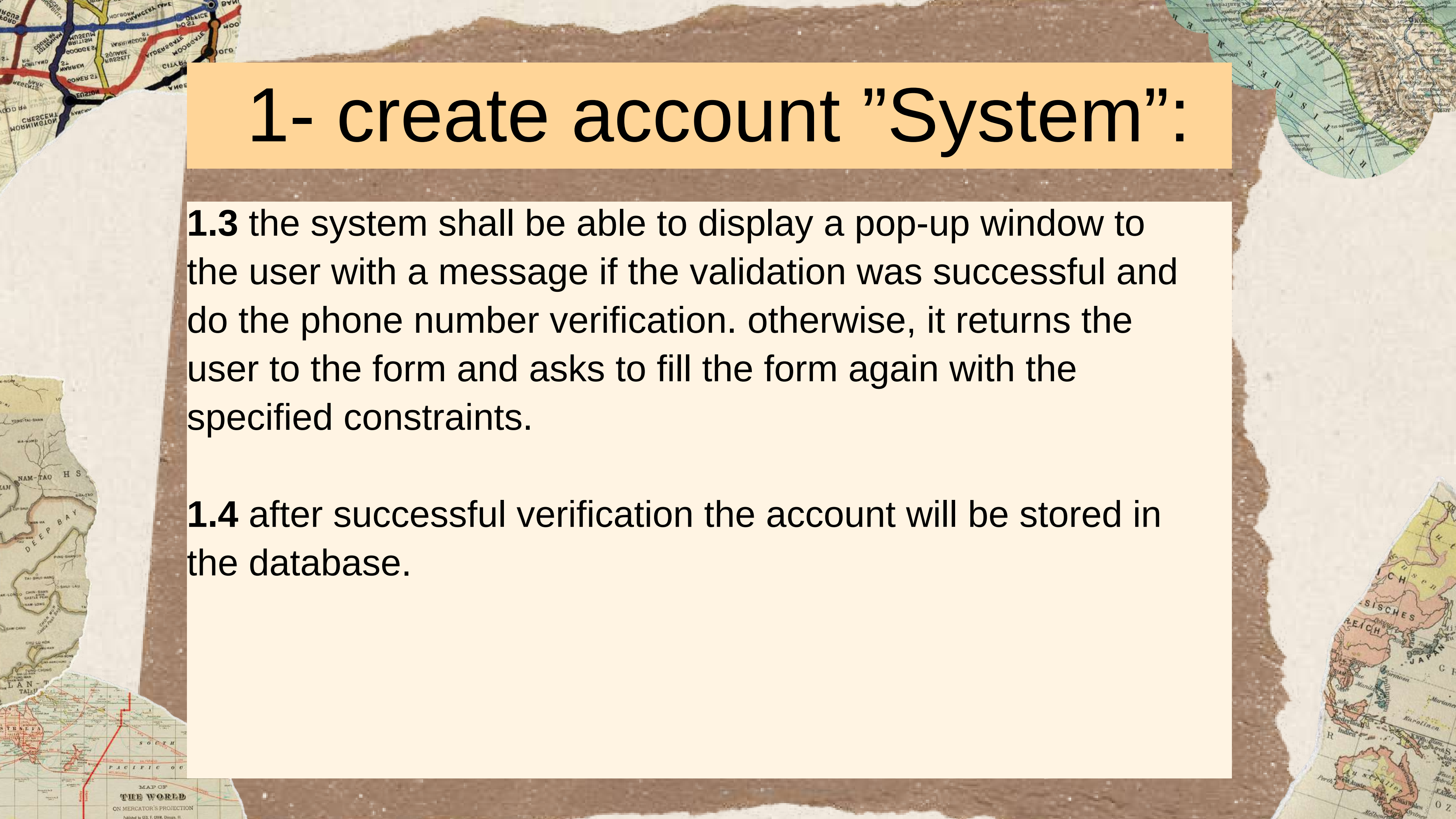


# 1- create account "System":

**1.1** the system shall be able to display sign up form which contains a list of fields:(first name, last name, email, city, password, confirmation of the password, phone number).

**1.2** the system shall be able to validate the entered data with these constraints: email, phone number, and password must be unique and there is no other record in the database that has the same values, the phone number should be 12 number starting with 966 ,and the password should be 8 characters (letters, numbers,\_).



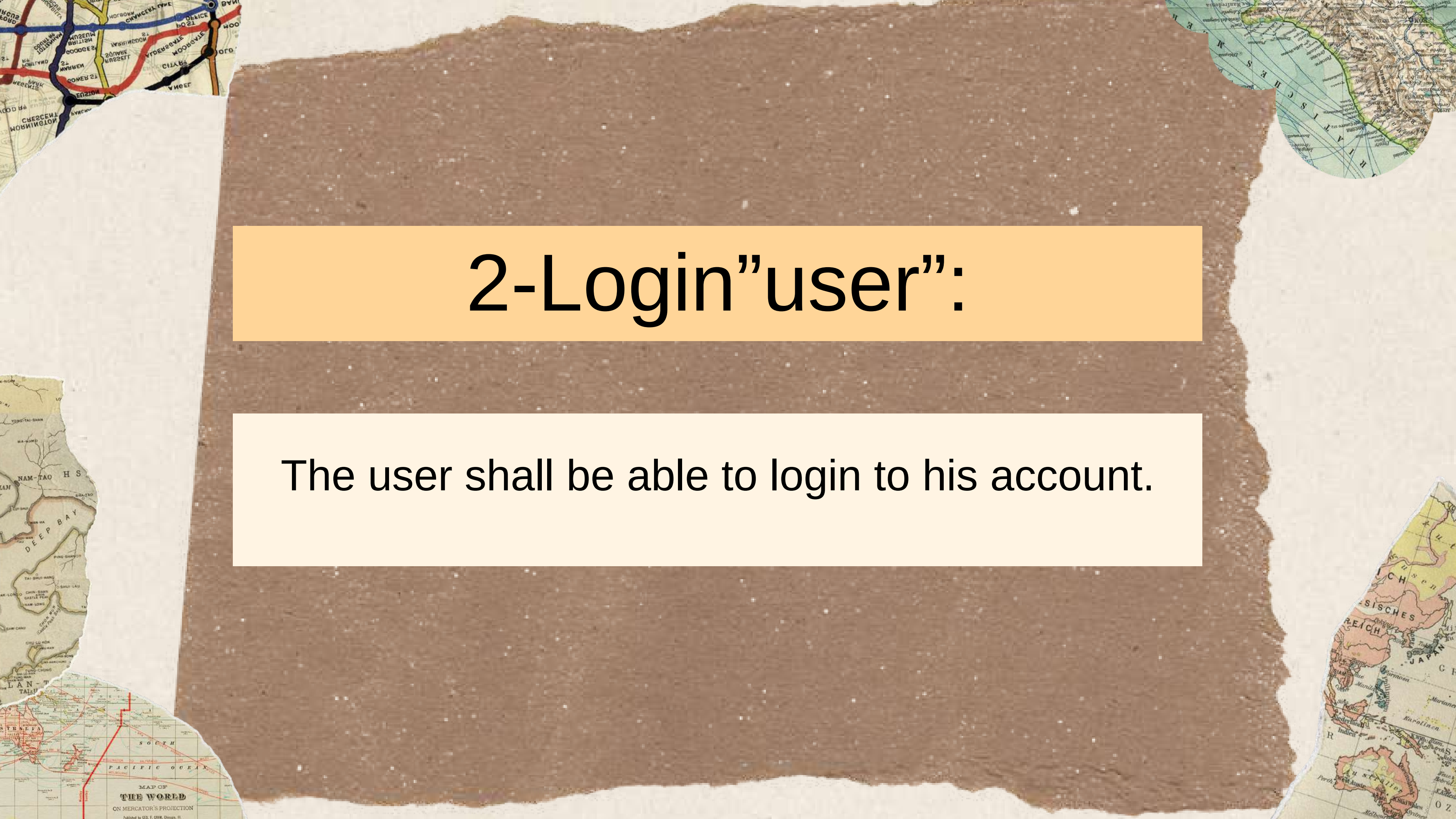


# 1- create account "System":

**1.3** the system shall be able to display a pop-up window to the user with a message if the validation was successful and do the phone number verification. otherwise, it returns the user to the form and asks to fill the form again with the specified constraints.

**1.4** after successful verification the account will be stored in the database.





## 2-Login"user":

The user shall be able to login to his account.



## 2-Login"System":

**2.1** The system shall be able to display a login form to the user, which contains two fields: (email or phone number, and password).

**2.2** The system shall be able to check against the input database.

If there is matching user information go to the Home page. Otherwise, If they are incorrect they get an error message as seen below ( sorry incorrect,try again or sign up).





# 3-Add to favorite"user":

The user shall be able to add the place in his favorite.



The background of the slide is a collage of various old, torn maps. In the top left, there's a map of a city area with streets like 'MUSEUM' and 'BRITISH'. In the top right, a map shows a coastline with 'S. I. S. C. H. E. S.' and 'R. A. I. S. I. S. C. H. E. S.'. On the left side, a map of a bay area is visible with labels like 'NAM-TAO H S' and 'DEEP BAY'. At the bottom left, a map of the Pacific Ocean is shown with 'SOUTH PACIFIC OCEAN' and 'MAP OF THE WORLD ON MERCATOR'S PROJECTION'. On the bottom right, a map of East Asia is visible with labels like 'JAPAN', 'KOREA', and 'CHINA'.

# 3-Add to favorite"System":

**3.1** the system will allow the user to choose a place or event and click on the heart shape.

**3.2** the system will add the place to the favorite.

**3.3** all his favorite lists are stored.



The background of the slide is a large, irregularly shaped piece of brown, textured paper. Surrounding this central piece are several fragments of old, torn maps. In the top left, a map shows a street grid with labels like 'MUSEUM', 'BRITISH', 'MARRIMON', 'RUSSELL', 'COMER ST', 'MOOREVILLE', 'CHURCH', 'VINE ST', 'OFFICE', 'POST', 'MOOREVILLE', 'CHURCH', 'VINE ST', 'OFFICE', 'POST'. In the top right, a map shows a coastal area with labels like 'SOUTH', 'PACIFIC OCEAN', 'JAPAN', 'KAROLINA', 'MARIANNA', 'INDONESIA', 'AUSTRALIA', 'PERTH', 'WEST AUSTRALIA', 'SOUTH AUSTRALIA', 'VICTORIA', 'QUEENSLAND', 'NEW SOUTH WALES', 'TASMANIA'. In the bottom left, a map shows a coastal area with labels like 'NAM-DAO', 'H S', 'DEEP BAY', 'PUNG-SHAN', 'TAI-SHUI-MANG', 'CHIN-SHAN', 'CASTLE PEAK', 'NAM-LONG', 'CHU-LU-KO', 'TUNG-CHUNG', 'LAN-TAI'. In the bottom right, a map shows a coastal area with labels like 'SOUTH', 'PACIFIC OCEAN', 'JAPAN', 'KAROLINA', 'MARIANNA', 'INDONESIA', 'AUSTRALIA', 'PERTH', 'WEST AUSTRALIA', 'SOUTH AUSTRALIA', 'VICTORIA', 'QUEENSLAND', 'NEW SOUTH WALES', 'TASMANIA'.

# 4-Book a place"user":

The user shall be able to book a place or event.



The background of the slide is a collage of various old, torn maps. In the top left, there's a map showing a city street grid with labels like 'MUSEUM', 'OFFICE', and 'BANK'. In the top right, a map shows a coastline with labels like 'SICILY' and 'M. SICILIA'. In the bottom left, a map shows a bay area with labels like 'NAM-TAO H S' and 'DEEP BAY'. In the bottom right, a map shows a large landmass with labels like 'JAPAN', 'KAROLINA', and 'AUSTRALIA'. The maps are layered and torn at the edges, giving a vintage, historical feel to the presentation.

# 4-Book a place"System":

**4.1** The system shall provide a comprehensive booking process, allowing users to:

1-Select the desired date and time for their booking.

2-Choose specific seats and view an interactive seating chart if applicable.

**4.2** The system shall dynamically update the total cost based on the selected quantity.

**4.3** The system shall perform verification that the selected date and time are available, and ensuring that the chosen quantity of tickets is within the available inventory.



The background of the slide is a collage of various old, torn maps. In the top left, there's a map showing a city grid with labels like 'MUSEUM', 'OFFICE', and 'BANK'. In the top right, a map shows a coastline with 'S. I. S. C. H. E. S.' and 'R. A. I. S. C. H. E. S.' labels. In the bottom left, a map shows a bay area with 'DEEP BAY' and 'NAM-TAO H S.' labels. In the bottom right, a map shows a large landmass with 'REICH', 'JAPAN', and 'AUSTRALIA' labels. The maps are layered and torn, creating a textured, historical feel.

# 4-Book a place"System":

**4.4** The system shall display the booking details ( booking ID, date, time) and any additional relevant information.

**4.5** The system shall maintain a comprehensive booking history for each user within their profile. the system shall allow the users the ability to view and manage their past bookings.

**4.6**The system shall seamlessly transition to the payment step.





# 5-Pay for a ticket "user":

The user must be able to pay by any method that suits him



The background of the slide is a collage of various old, torn maps. In the top left, there's a map showing a city grid with labels like 'MUSEUM', 'OFFICE', and 'ST. JAMES'. In the top right, a map shows a coastline with 'S. I. S. C. H. E. S.' and 'R. A. I. S. I. S. C. H. E. S.' labels. In the bottom left, a map shows 'DEEP BAY' and 'NAM-TAO H S'. In the bottom right, a map shows 'JAPAN' and 'AUSTRALIA'. The maps are layered and torn, giving a vintage feel.

# 5-Pay for a ticket "System":

**5.1** the system will take the user to the payment page, and allows the user to choose the payment method.

**5.2** The system shall allow the user to write all the information, and then click on Pay.

**5.3** the reservation will be stored in the database.

**5.4** the system shall allow the user to use the refunds if he cancel the reservation and the refunds will be stored in their wallet for future bookings.

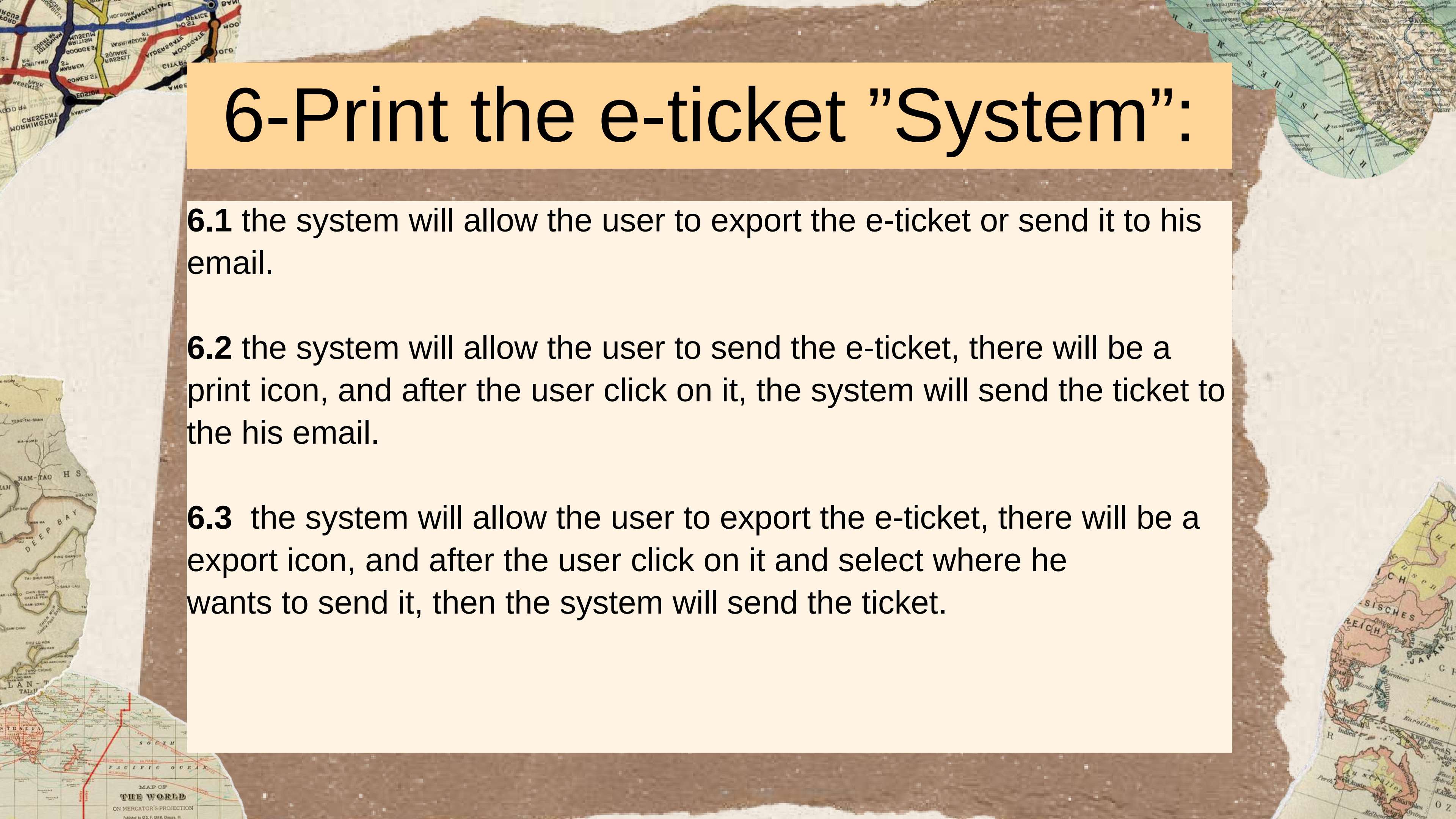




## 6-Print the e-ticket "user":

The user must be able to print the ticket.



The background of the slide is a collage of various historical maps. In the top left, there's a map of a city area with streets like 'CHURCH ST' and 'MOORE ST'. In the top right, a map shows a coastal region with 'SOUTH' and 'EAST' labels. In the bottom left, a map of the Pacific Ocean is visible with 'PACIFIC OCEAN' and 'SOUTH' labels. In the bottom right, a map shows 'JAPAN' and 'AUSTRALIA'.

# 6-Print the e-ticket "System":

**6.1** the system will allow the user to export the e-ticket or send it to his email.

**6.2** the system will allow the user to send the e-ticket, there will be a print icon, and after the user click on it, the system will send the ticket to the his email.

**6.3** the system will allow the user to export the e-ticket, there will be a export icon, and after the user click on it and select where he wants to send it, then the system will send the ticket.





# 7-write a comment "user":

The user must be able to write a comment.



The background of the slide is a collage of various old, torn maps. In the top left, there's a map showing a city grid with labels like 'MUSEUM', 'OFFICE', and 'BANK'. In the top right, a map shows a coastline with 'S. I. S. C. H. E. S.' and 'R. I. A. T. I. O. N.' labels. In the bottom left, a map shows 'DEEP BAY' and 'NAM-TAO H S'. In the bottom right, a map shows 'JAPAN' and 'AUSTRALIA'. The maps are layered and torn at the edges, creating a textured, historical feel.

# 7-write a comment "System":

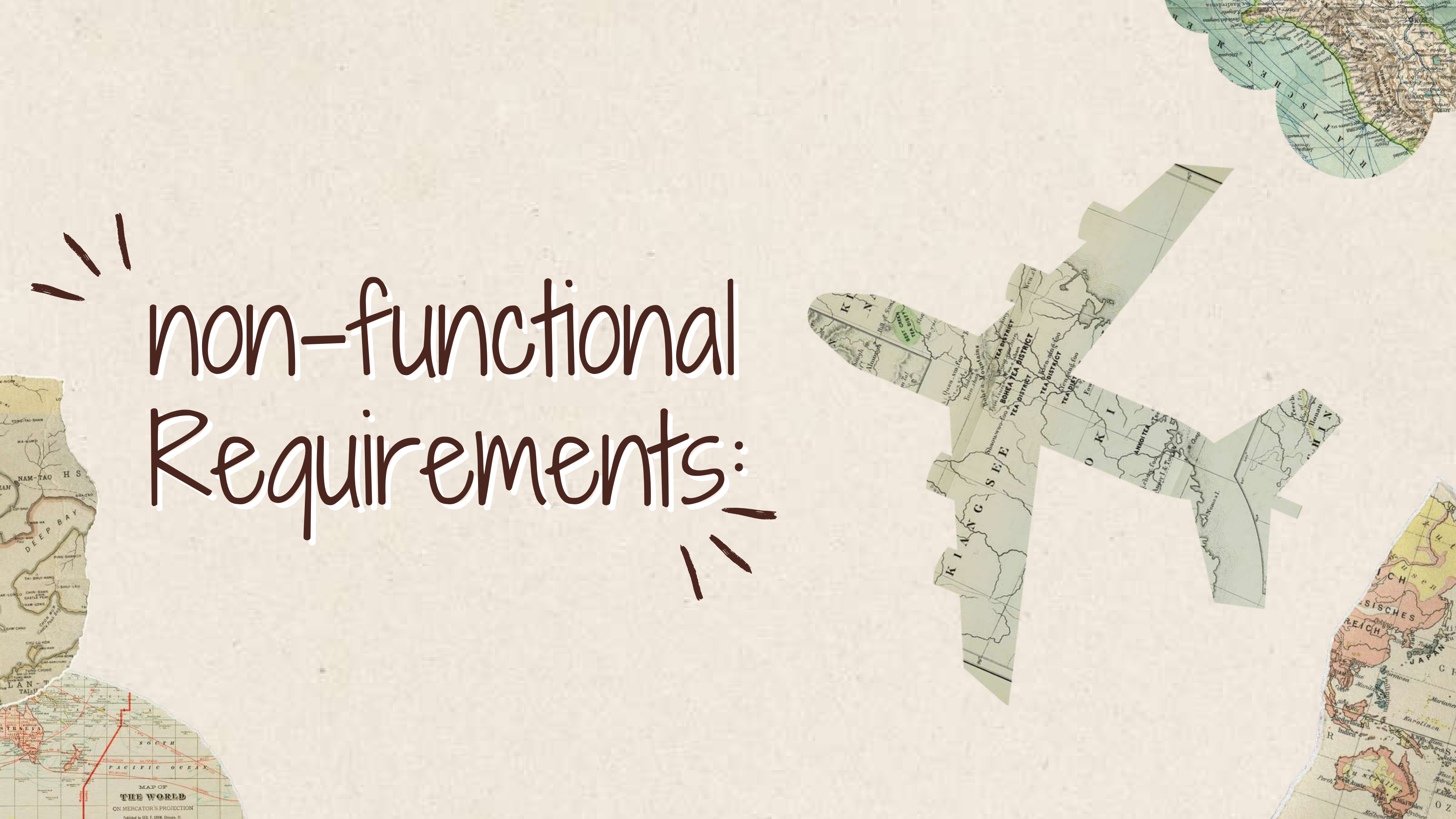
**7.1** the system will allow the user to write a comment after the user chooses the place that he wants to comment about. the system will display a Comment button.

**7.2** the system will display a Comment button and will allow the user to click on Publish.

**7.3** The comment will be stored .



# non-functional Requirements:





The background of the slide is a collage of various maps. In the top left, there is a detailed street map of a city area with labels like 'MUSEUM', 'BRITISH', 'MARRINER', 'COMER ST', 'WOODS', 'CHURCH', 'OFFICE', 'BOST', 'MOOREVILLE', 'CHURCH', 'WOODS', 'CHURCH', 'OFFICE', 'BOST', 'MOOREVILLE'. In the top right, there is a circular inset map showing a geographical region with labels like 'SOUTH', 'PACIFIC OCEAN', 'JAPAN', 'KAROLINA', 'MARIANAS', 'INDONESIA', 'AUSTRALIA', 'WEST AUSTRALIA', 'SOUTH AUSTRALIA', 'VICTORIA', 'QUEENSLAND', 'NEW SOUTH WALES', 'TASMANIA', 'PERTH', 'MELBOURNE', 'SYDNEY', 'BRISBANE', 'ADELAIDE', 'HOBART', 'DARWIN', 'PERTH', 'MELBOURNE', 'SYDNEY', 'BRISBANE', 'ADELAIDE', 'HOBART', 'DARWIN'. In the bottom left, there is a map of the Pacific Ocean with labels like 'SOUTH', 'PACIFIC OCEAN', 'JAPAN', 'KAROLINA', 'MARIANAS', 'INDONESIA', 'AUSTRALIA', 'WEST AUSTRALIA', 'SOUTH AUSTRALIA', 'VICTORIA', 'QUEENSLAND', 'NEW SOUTH WALES', 'TASMANIA', 'PERTH', 'MELBOURNE', 'SYDNEY', 'BRISBANE', 'ADELAIDE', 'HOBART', 'DARWIN'. In the bottom right, there is a map of the Pacific Ocean with labels like 'SOUTH', 'PACIFIC OCEAN', 'JAPAN', 'KAROLINA', 'MARIANAS', 'INDONESIA', 'AUSTRALIA', 'WEST AUSTRALIA', 'SOUTH AUSTRALIA', 'VICTORIA', 'QUEENSLAND', 'NEW SOUTH WALES', 'TASMANIA', 'PERTH', 'MELBOURNE', 'SYDNEY', 'BRISBANE', 'ADELAIDE', 'HOBART', 'DARWIN'.

# 1-reliability

large database to handle a large number of users  
above 900,000 users.





# 2-availability

the system should be available 24/7. And we will allocate more than one server. If one of them fails, the second will do the work for the site.





# 3-speed

the response time is high in less than a 5 second.





# 4-Secure

the user information will be secure and protected against attacks using encryption, secure socket layer.



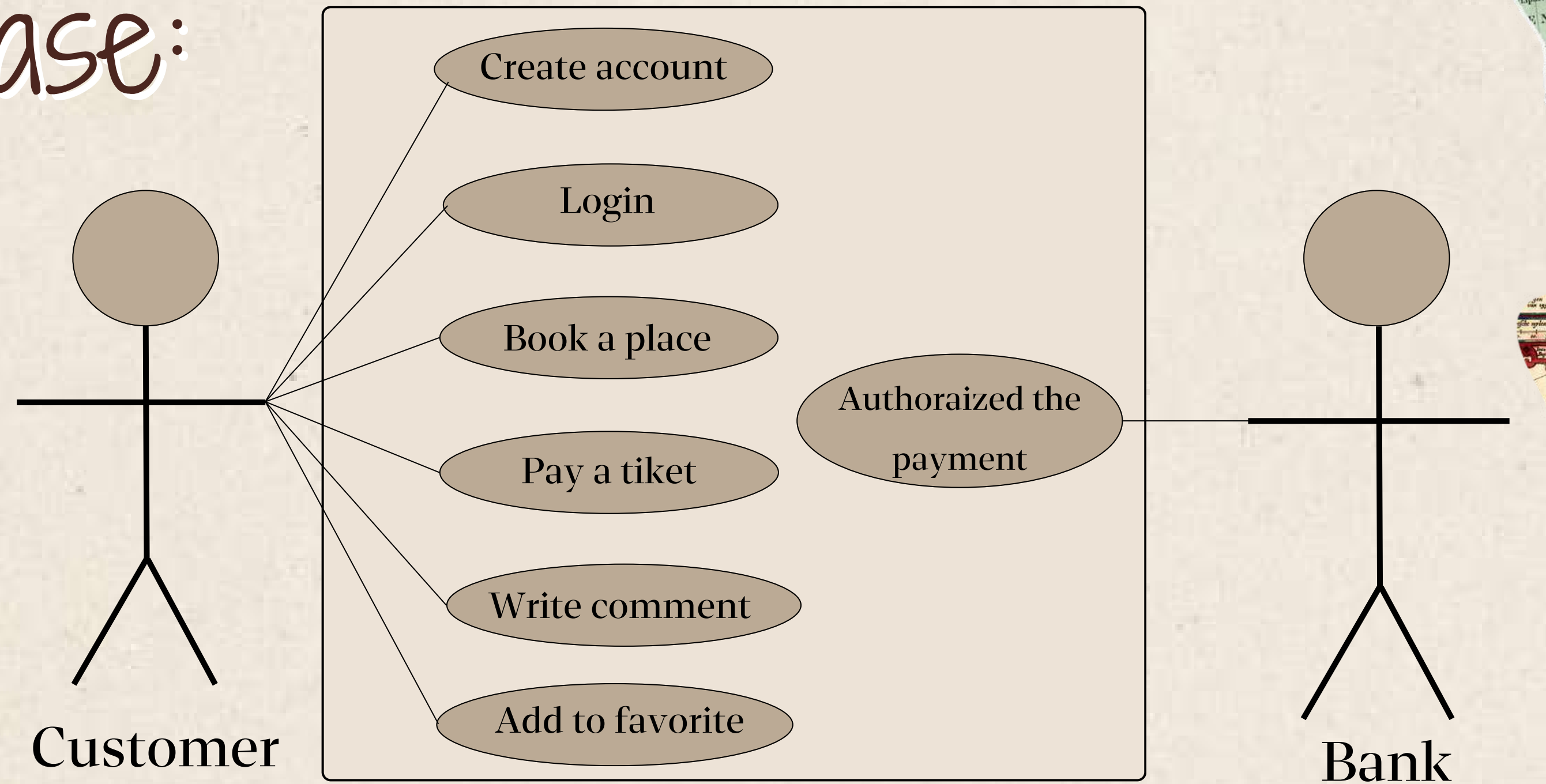
The background of the slide is a collage of torn, vintage-style maps. In the top left, a map shows a city street grid with labels like 'MUSEUM', 'BRITISH', 'MARRIMON', 'RUSSELL', 'COMER ST', 'MOOREVILLE', 'CHURCH', 'VINEET', 'OFFICE', 'POST', 'MOOREVILLE', 'CHURCH', 'VINEET'. In the top right, a map shows a coastal area with labels like 'SOUTH', 'PACIFIC OCEAN', 'JAPAN', 'KAROLINA', 'MARIANAS', 'WEST AUSTRALIA', 'PERTH', 'MELBOURNE', 'SYDNEY', 'VICTORIA', 'NEW SOUTH WALES', 'QUEENSLAND', 'SOUTH AUSTRALIA', 'TASMANIA', 'VANUATU', 'FIJI', 'TONGA', 'SAMOA', 'AUSTRALIA', 'NEW ZEALAND', 'SOUTH PACIFIC OCEAN'. In the bottom left, a map shows a coastal area with labels like 'SOUTH', 'PACIFIC OCEAN', 'JAPAN', 'KAROLINA', 'MARIANAS', 'WEST AUSTRALIA', 'PERTH', 'MELBOURNE', 'SYDNEY', 'VICTORIA', 'NEW SOUTH WALES', 'QUEENSLAND', 'SOUTH AUSTRALIA', 'TASMANIA', 'VANUATU', 'FIJI', 'TONGA', 'SAMOA', 'AUSTRALIA', 'NEW ZEALAND', 'SOUTH PACIFIC OCEAN'. In the bottom right, a map shows a coastal area with labels like 'SOUTH', 'PACIFIC OCEAN', 'JAPAN', 'KAROLINA', 'MARIANAS', 'WEST AUSTRALIA', 'PERTH', 'MELBOURNE', 'SYDNEY', 'VICTORIA', 'NEW SOUTH WALES', 'QUEENSLAND', 'SOUTH AUSTRALIA', 'TASMANIA', 'VANUATU', 'FIJI', 'TONGA', 'SAMOA', 'AUSTRALIA', 'NEW ZEALAND', 'SOUTH PACIFIC OCEAN'.

# 5-usability

use a simple interface to be friendly to the user, by the average number of errors made by experienced users shall not exceed four errors per hour of system use.



# Use case:





create account:

Actor	The User
Description	<p>1- the system shall be able to display sign up form which contains a list of fields:(first name, last name, email, city, password, confirmation of the password, phone number).</p> <p>2- the system shall be able to validate the entered data with these constraints: email, phone number, and password must be unique and there is no other record in the database that has the same values, the phone number should be 12 number starting with 966 ,and the password should be 8 characters (letters, numbers,_).</p> <p>3- the system shall be able to display a pop-up window to the user with a message if the validation was successful and do the phone number verification. otherwise, it returns the user to the form and asks to fill the form again with the specified constraints.</p> <p>4- after successful verification the account will be stored in the database.</p>
Data	first name, last name, email, city, password, confirmation of the password, phone number
Stimulus	click button by user command
Response	<p>-display a pop-up window to the user with a message if the validation was successful</p> <p>-move to the next step(login)</p>



The background of the slide is a collage of various old, torn maps. In the top left, there's a map of a city area with streets like 'CHURCH ST' and 'MOORE ST'. In the top right, a map shows a coastal region with 'HONG KONG' and 'CANTON'. On the left side, a map of a bay area is visible with labels like 'NAM-TAO H S' and 'DEEP BAY'. On the right side, a map of East Asia is shown with labels like 'JAPAN' and 'KOREA'. At the bottom, a world map is partially visible with labels like 'PACIFIC OCEAN' and 'AUSTRALIA'.

## Login:

<b>Actor</b>	The User
<b>Description</b>	<p>1- The system shall be able to display a login form to the user, which contains two fields: (email or phone number, and password).</p> <p>2- The system shall be able to check against the input database.</p> <p>If there is matching user information go to the Home page.</p> <p>Otherwise, If they are incorrect they get an error message as seen below ( sorry incorrect,try again or sign up).</p>
<b>Data</b>	email or phone number and password
<b>Stimulus</b>	click button by user command
<b>Response</b>	the user will be navigated to the home page





## Add to favorite:

<b>Actor</b>	The User
<b>Description</b>	1- the system will allow the user to choose a place or event and click on the heart shape. 2- the system will add the place to the favorite. 3- all his favorite lists are stored.
<b>Data</b>	information about the favorite place
<b>Stimulus</b>	click button by user command
<b>Response</b>	-the color of the heart will be red heart -the place will be saved



# Book a place:

Actor	The User
Description	<p>1- The system shall provide a comprehensive booking process, allowing users to: 1-Select the desired date and time for their booking. 2-Choose specific seats and view an interactive seating chart if applicable.</p> <p>2- The system shall dynamically update the total cost based on the selected quantity.</p> <p>3- The system shall perform verification that the selected date and time are available, and ensuring that the chosen quantity of tickets is within the available inventory</p> <p>4- The system shall display the booking details ( booking ID, date, time , price) and any additional relevant information.</p> <p>5- The system shall maintain a comprehensive booking history for each user within their profile. the system shall allow the users the ability to view and manage their past bookings.</p> <p>6- The system shall seamlessly transition to the payment step.</p>
Data	Booking information
Stimulus	click button by user command
Response	View booking details



## Pay for a ticket:

<b>Actor</b>	The User
<b>Description</b>	<p>1- the system will take the user to the payment page, and allows the user to choose the payment method, price and date.</p> <p>2- The system shall allow the user to write all the information, and then click on Pay.</p> <p>3- the reservation will be stored in the database.</p> <p>4- the system shall allow the user to use the refunds if he cancel the reservation and the refunds will be stored in their wallet for future bookings.</p>
<b>Data</b>	Bank card data , mobile number,Price
<b>Stimulus</b>	click button by user command
<b>Response</b>	if the payment method is not complete, an error message will display else, the reservation will be completed.



## print the e-ticket:

<b>Actor</b>	The User
<b>Description</b>	<p>1- the system will allow the user to export the e-ticket as a PDF or print it.</p> <p>2- the system will allow the user to print the e-ticket, there will be a print icon, and after the user click on it, then the system will send the ticket to the his email.</p> <p>3- the system will allow the user to export the e-ticket, there will be a export icon, and after the user click on it and select where he wants to send it, then the system will send the ticket.</p>
<b>Data</b>	Ticket info
<b>Stimulus</b>	click button by user command
<b>Response</b>	according to the method chosen to print, the ticket will be printed or a copy will be sent to the email.

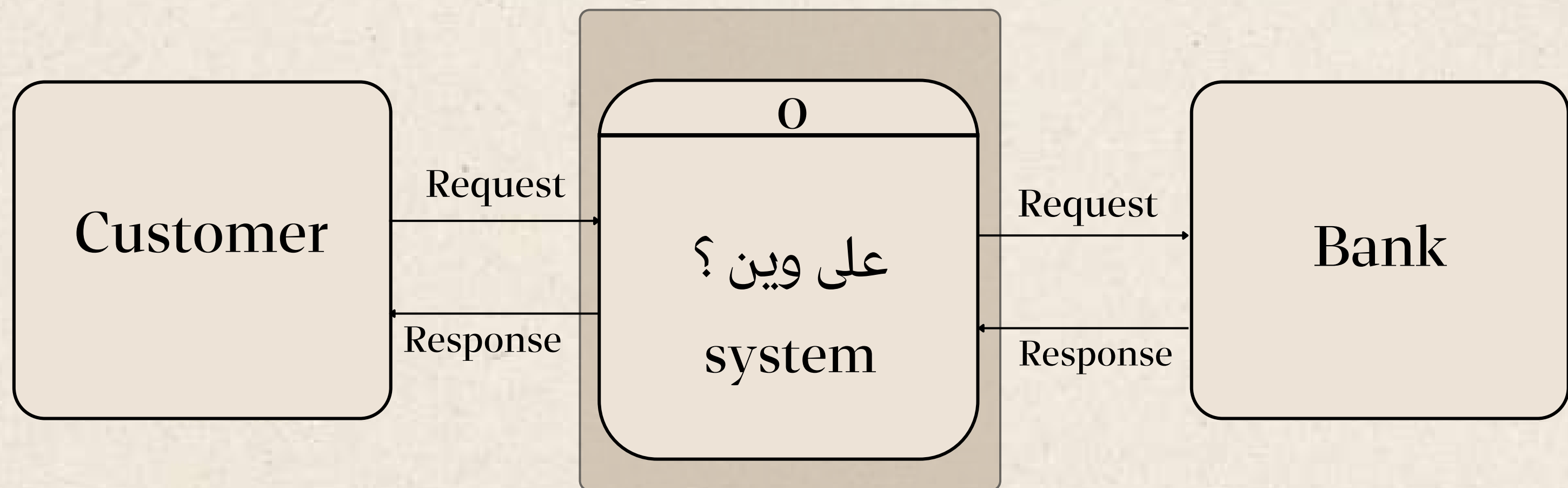


## write a comment:

<b>Actor</b>	The User
<b>Description</b>	<p>1- the system will allow the user to write a comment after the user chooses the place that he wants to comment about. the system will display a Comment button.</p> <p>2- the system will display a Comment button and will allow the user to click on Publish.</p> <p>3 -The comment will be stored .</p>
<b>Data</b>	Informaion about the place in the text box under the place
<b>Stimulus</b>	click butten by user command
<b>Response</b>	Post the comments

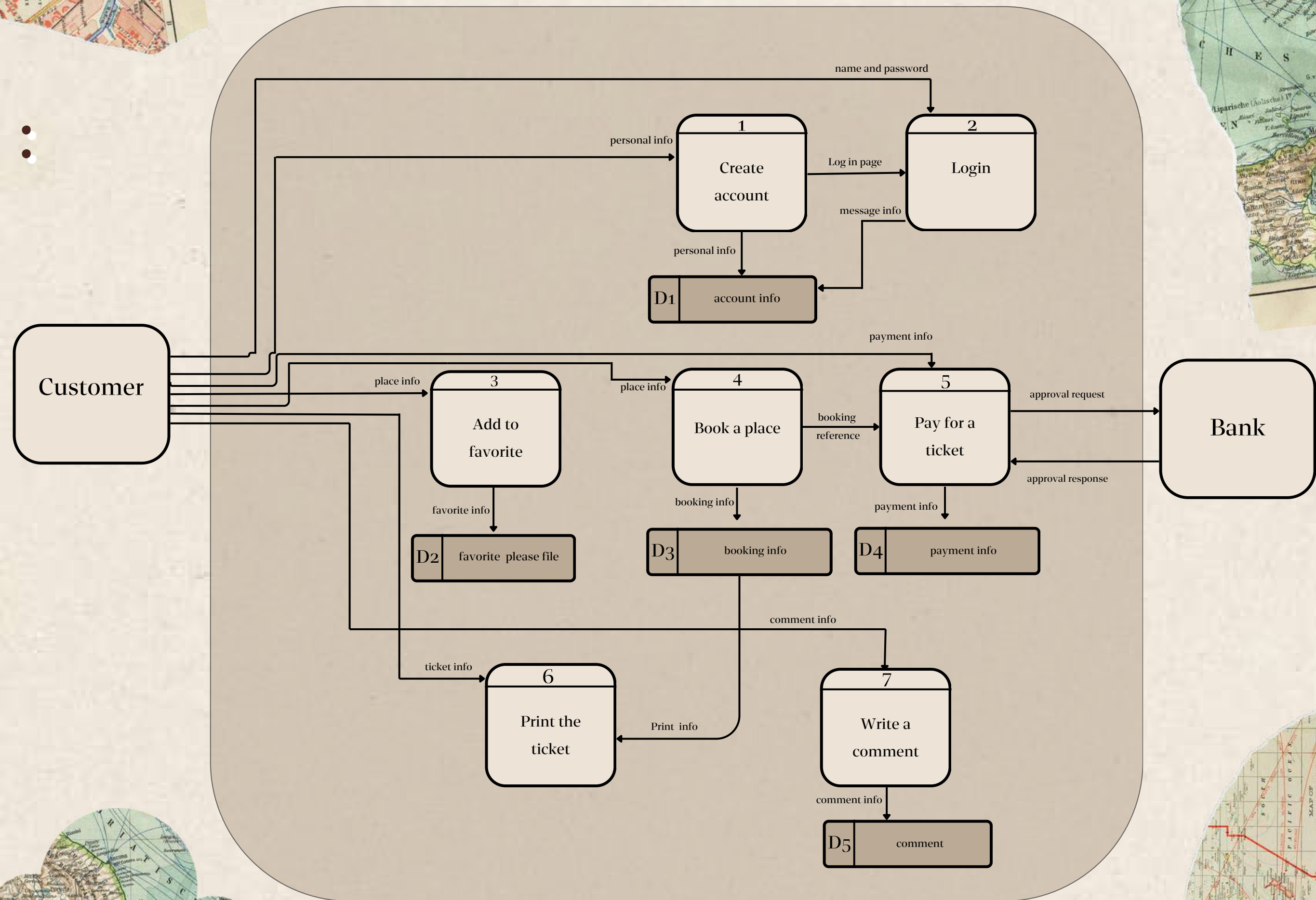


# context level (level 0):



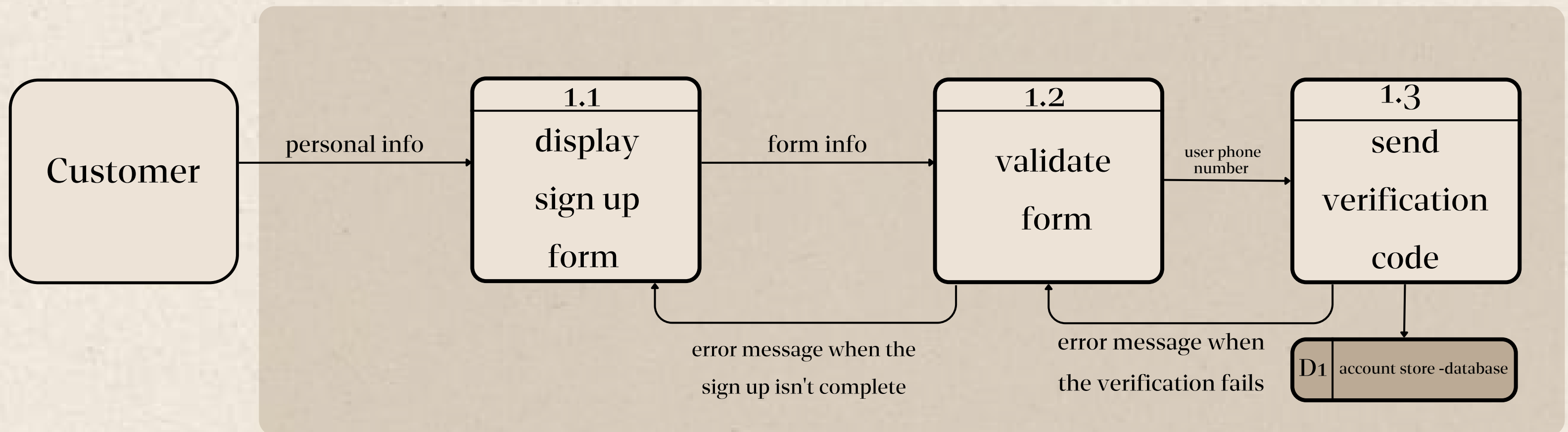


# level 1 :



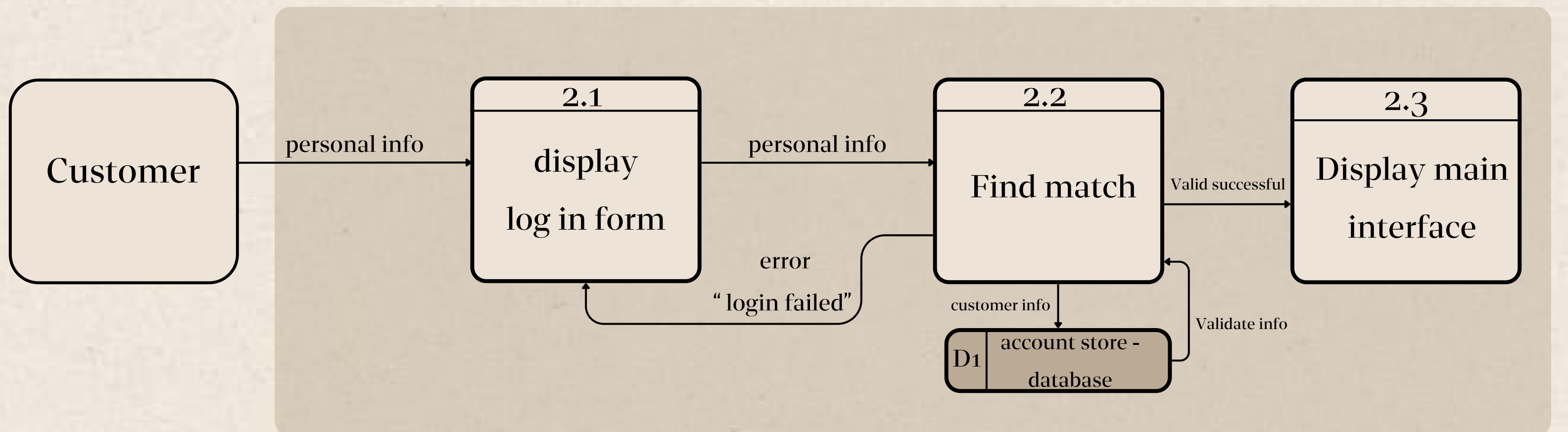


# child level "sign up":



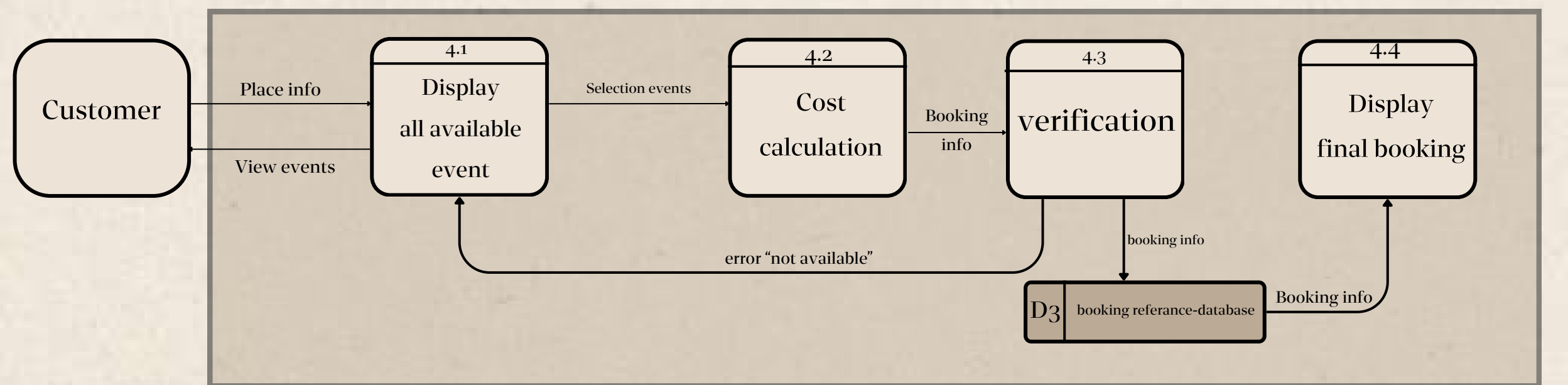


# child level "login":



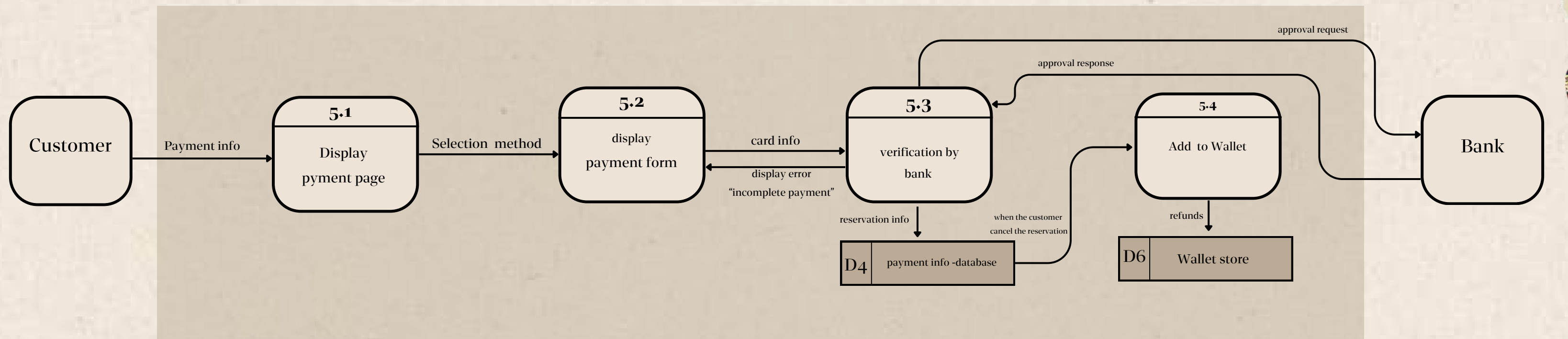


# child level "Book a place":



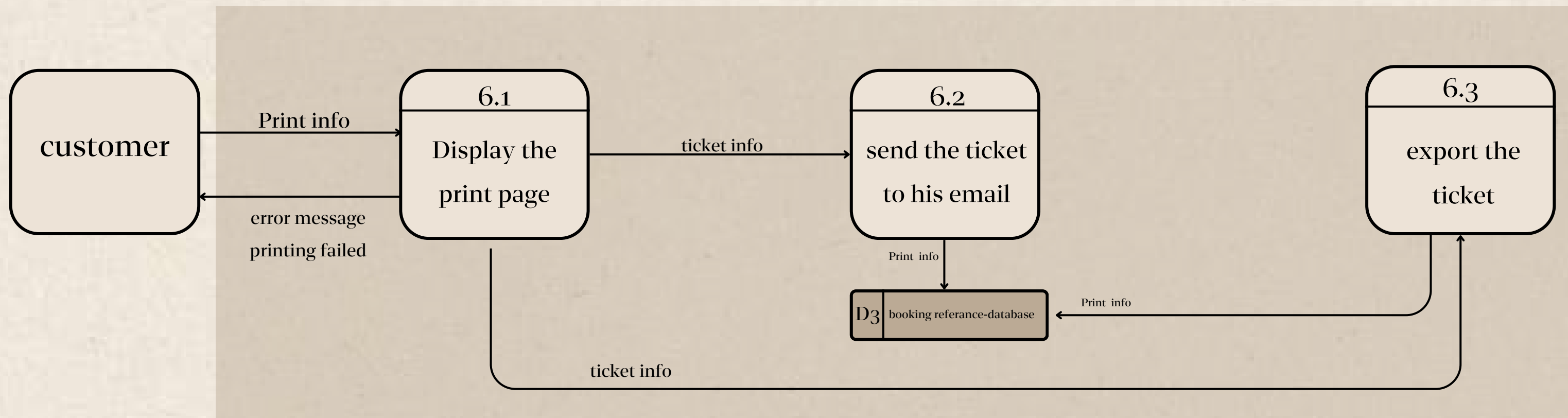


# child level "pay for a ticket":



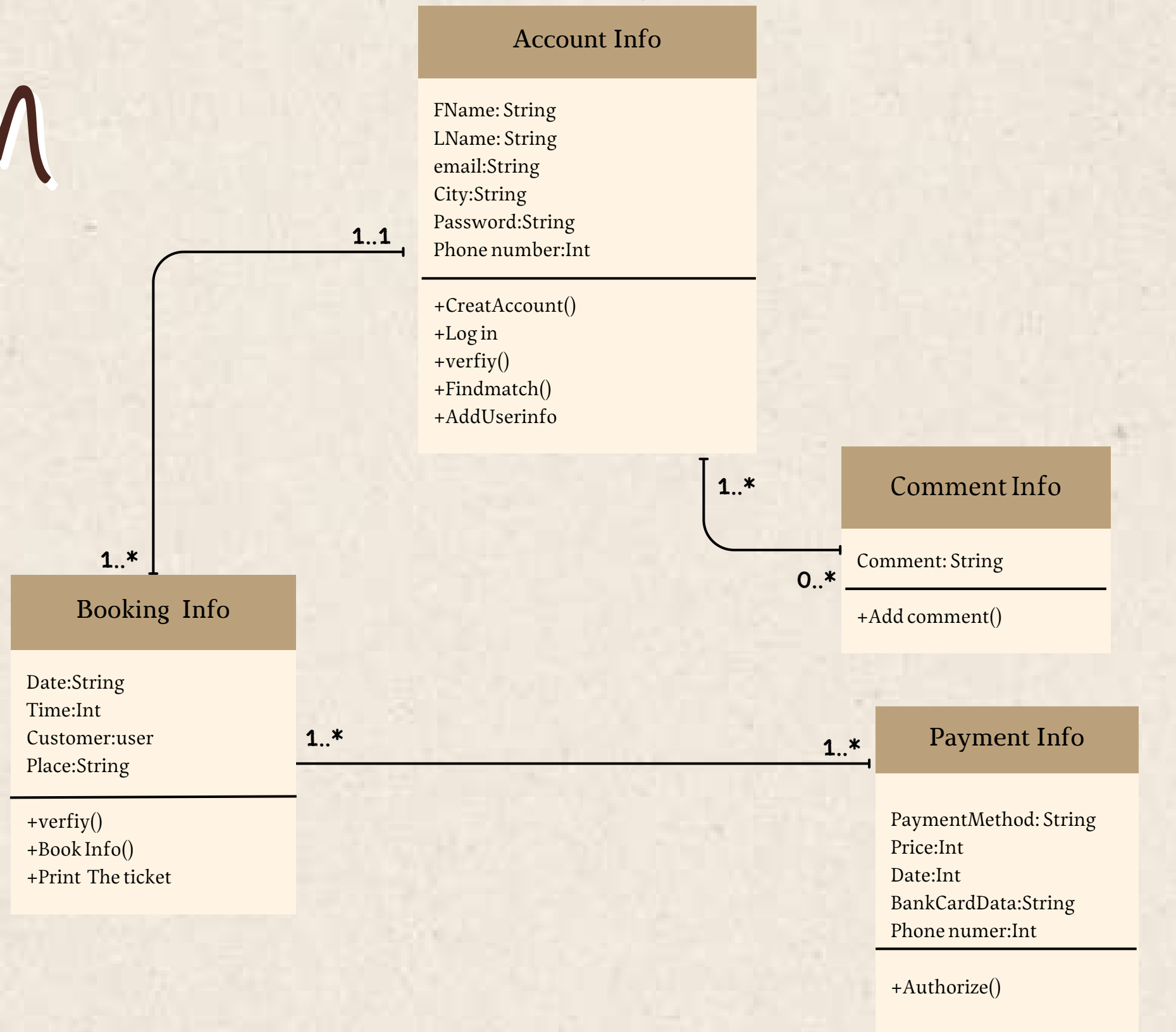


# child level "Print the e-ticket":





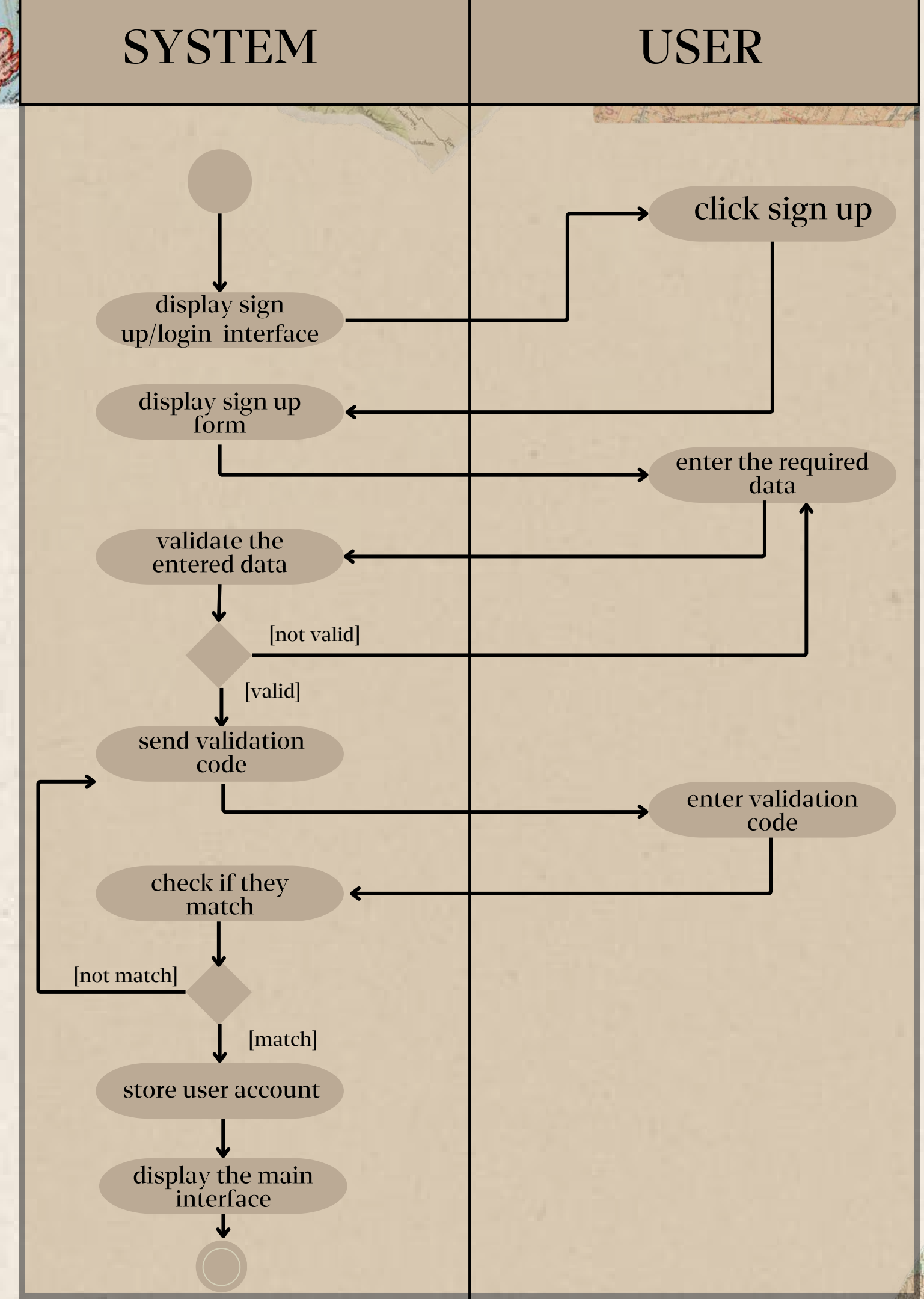
# Class diagram





# activity diagram

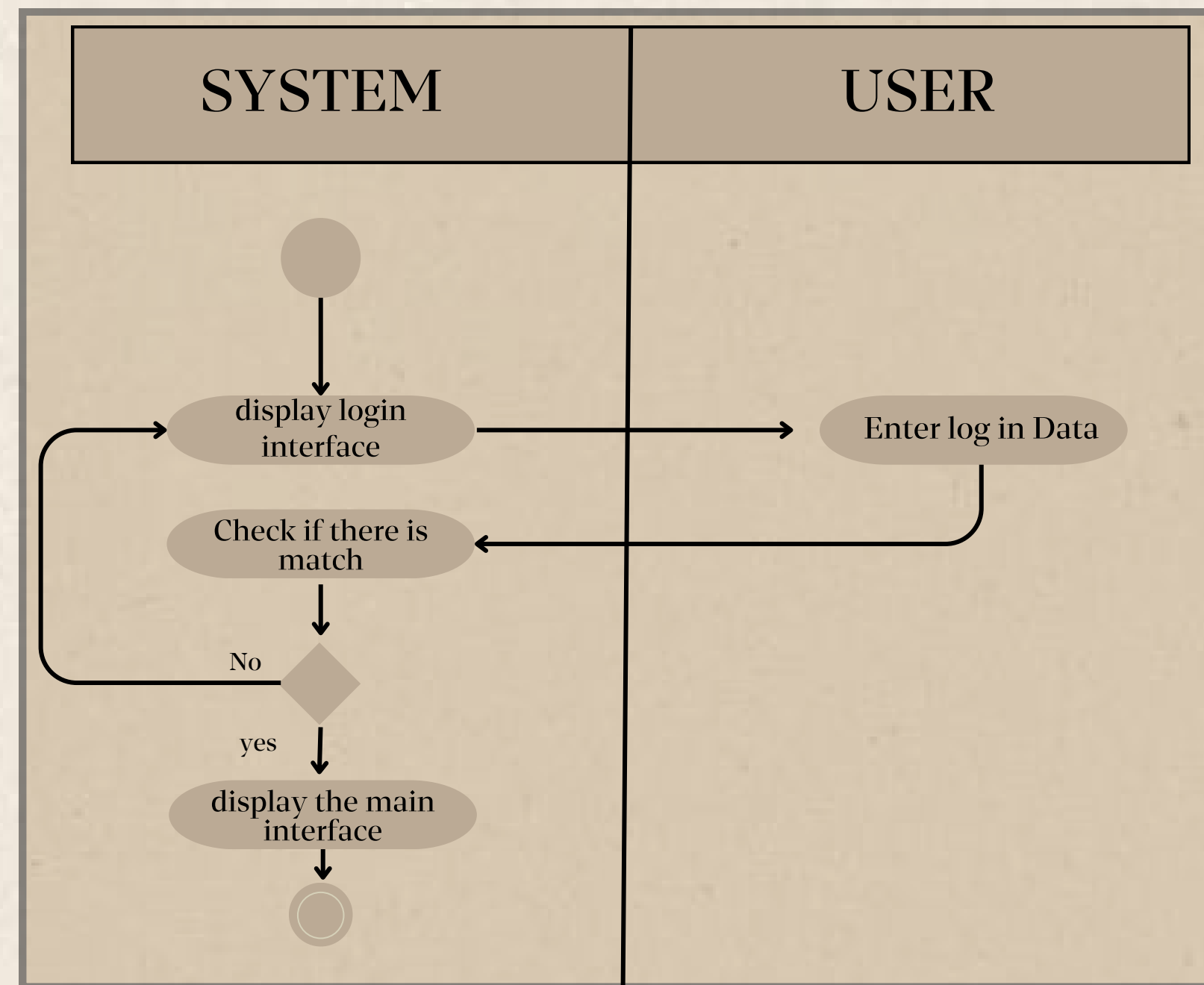
## "Create account":





# activity diagram

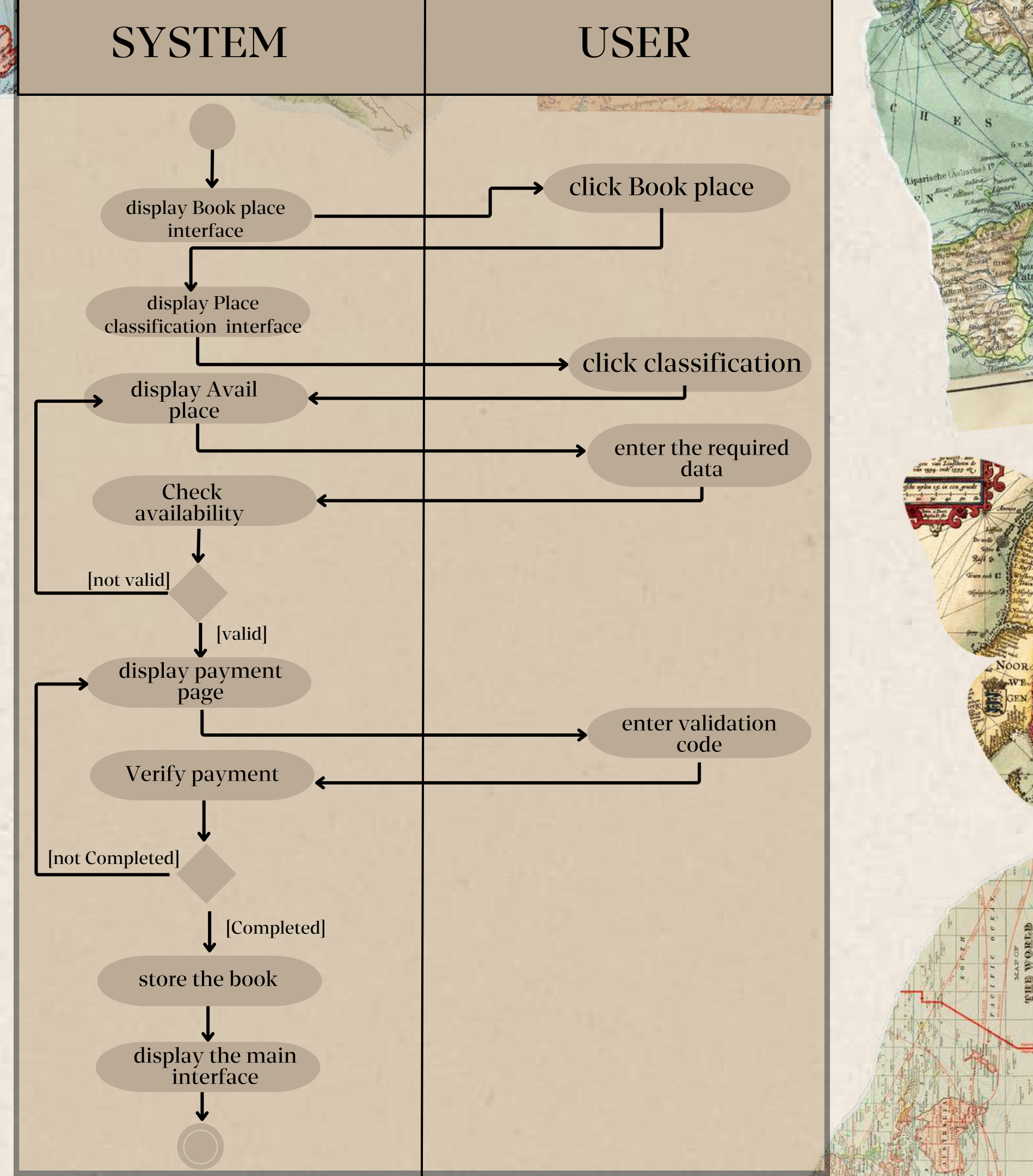
## "Login":





# activity diagram

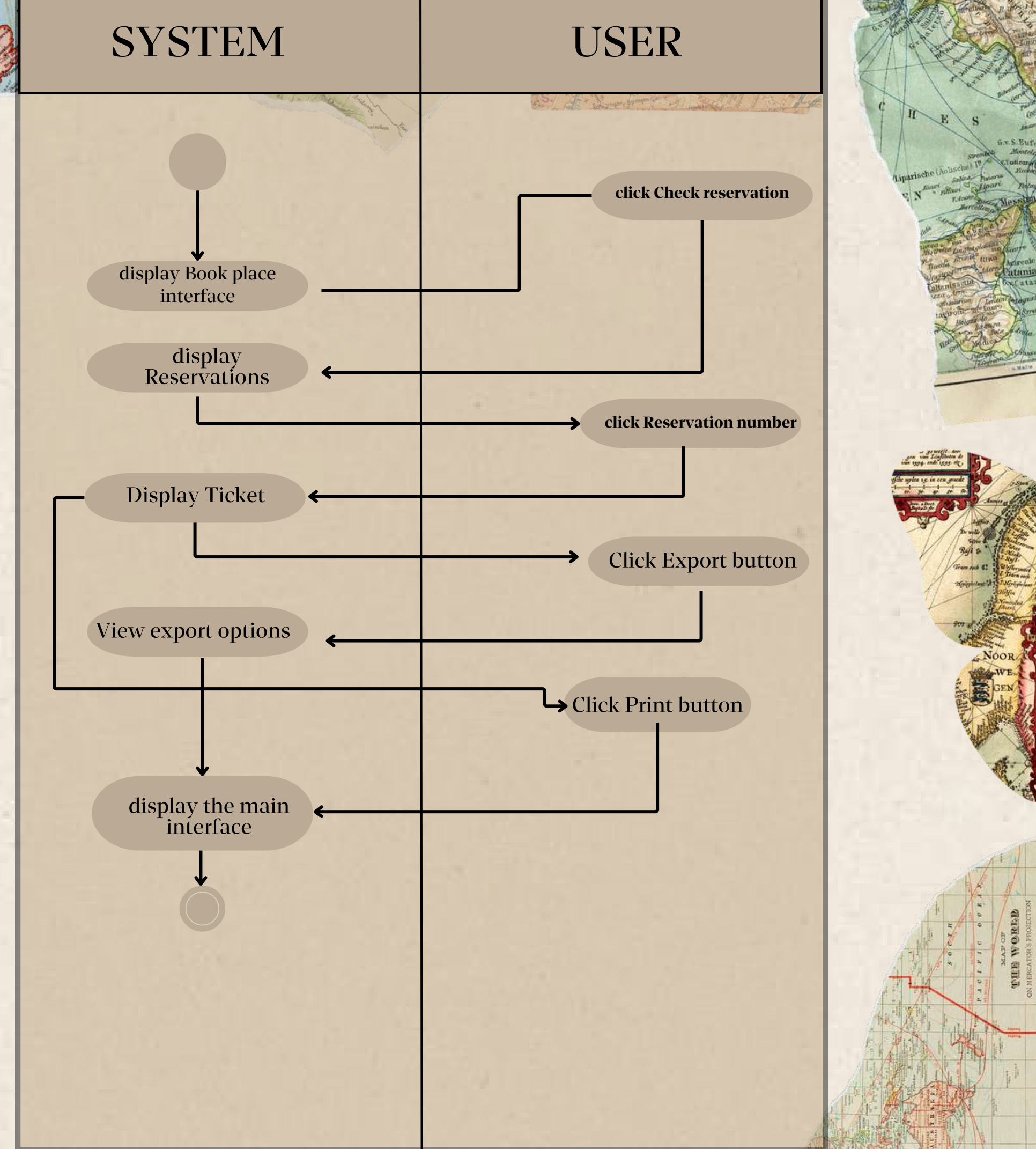
## "Book a place I":





# activity diagram

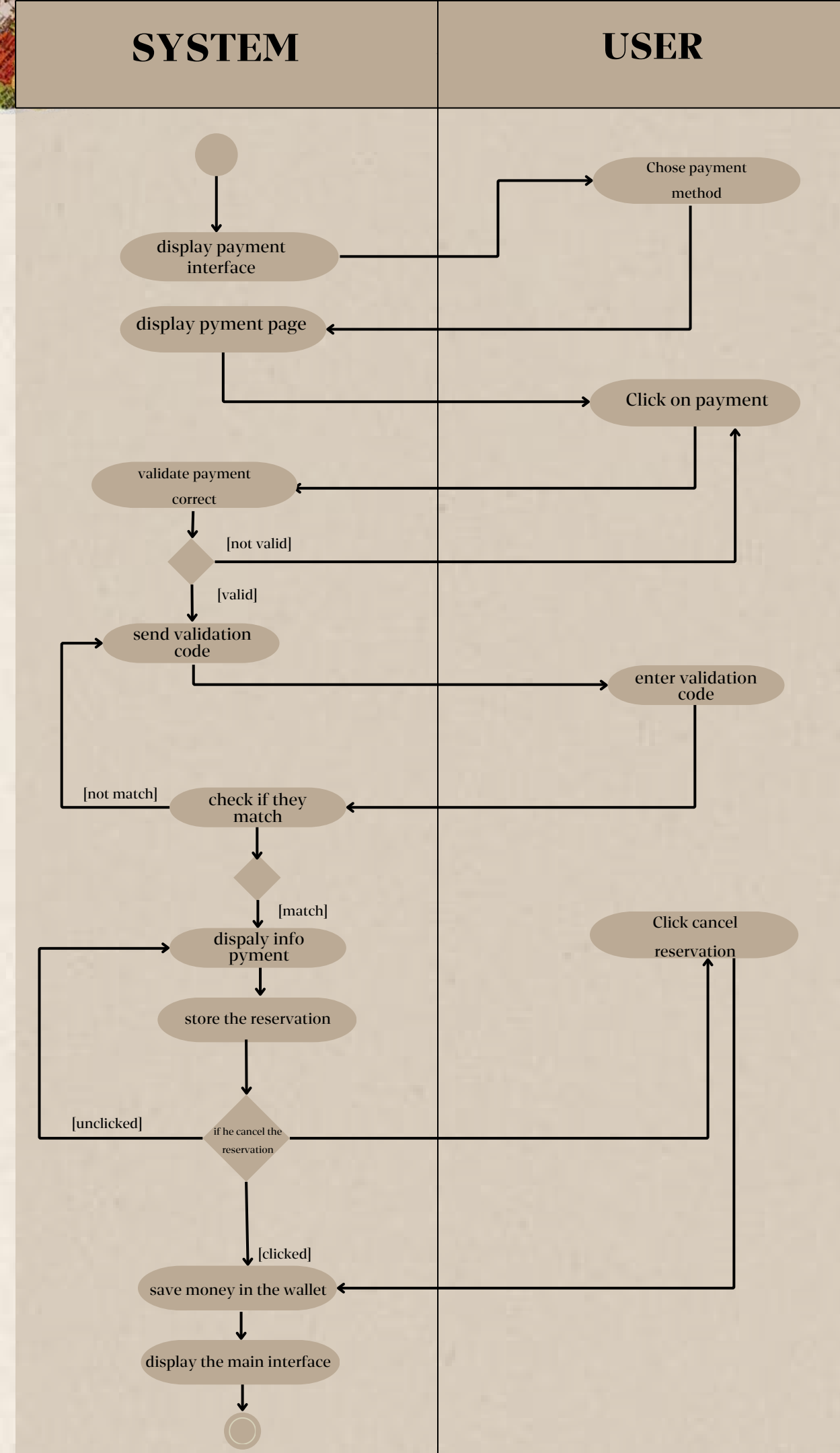
## "Book a place 2":



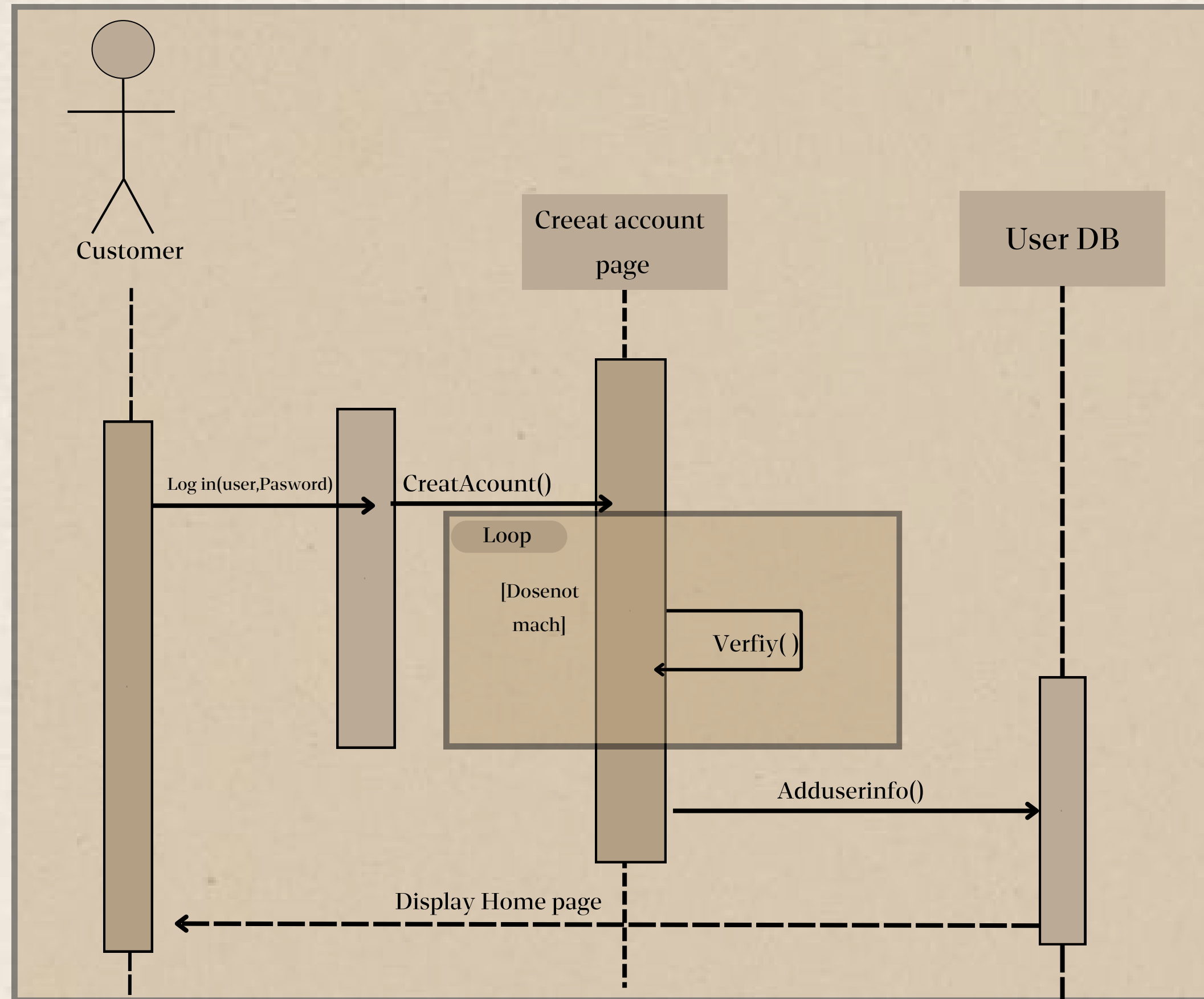


# activity diagram

## Payment

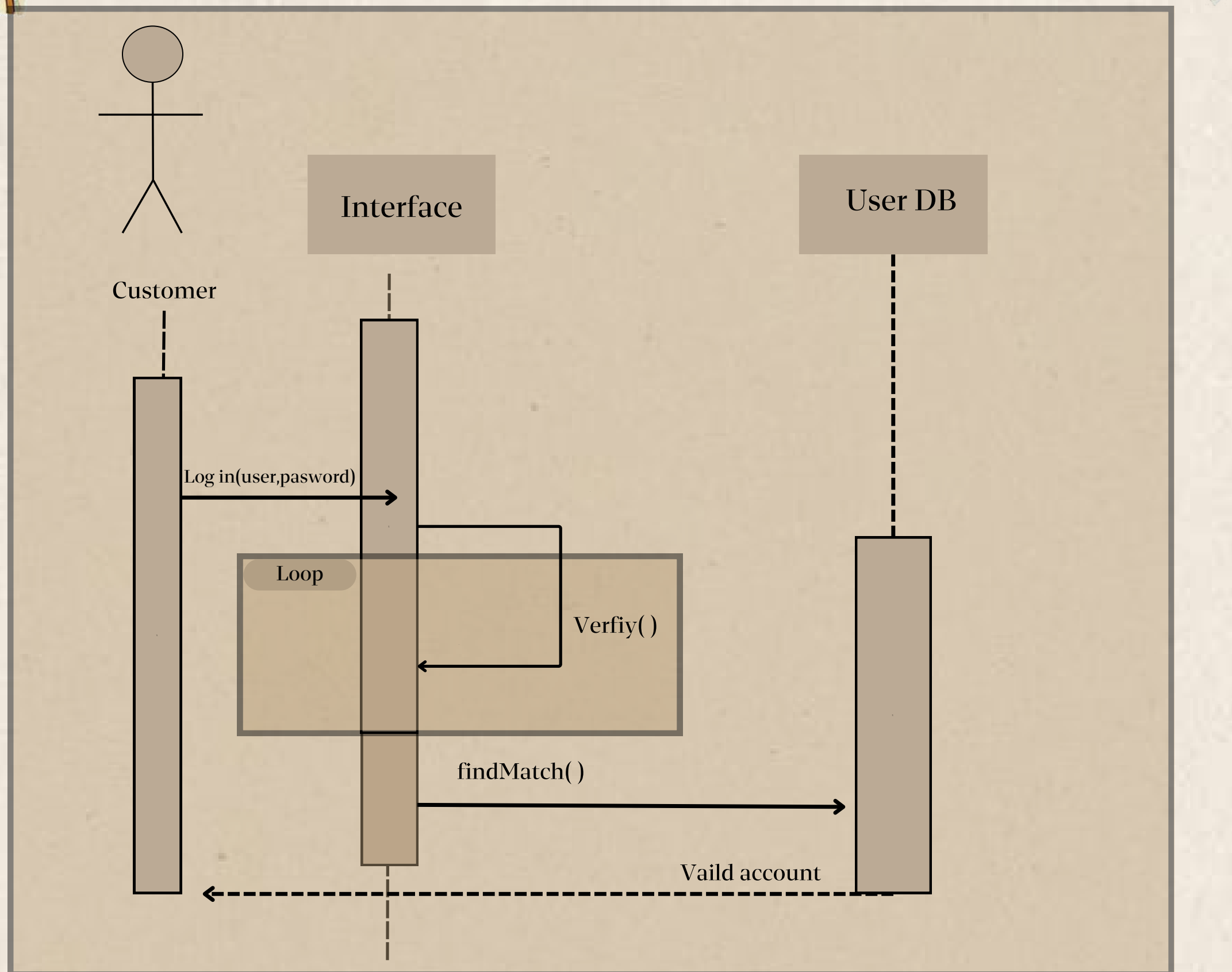






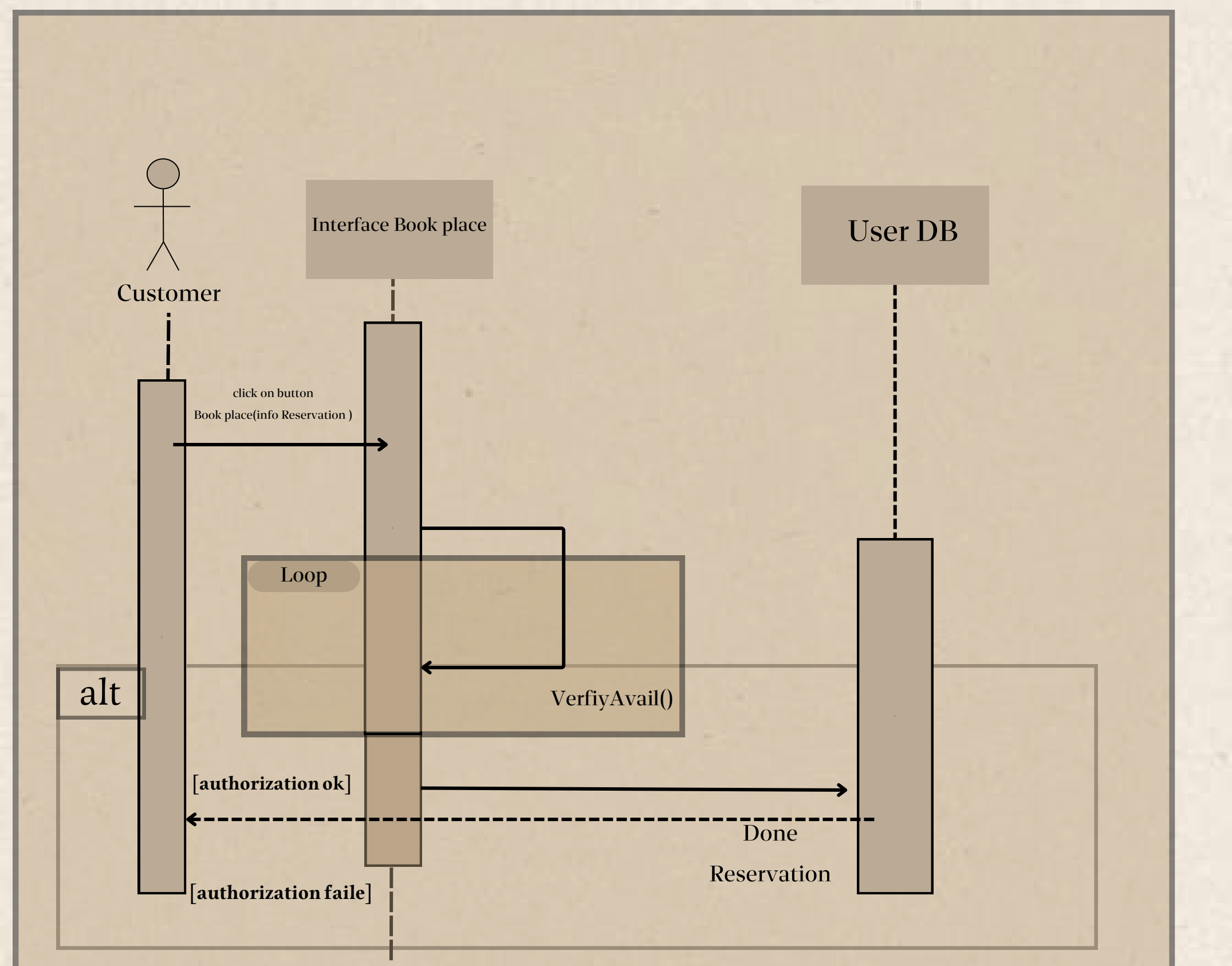
Sequanse  
creat account





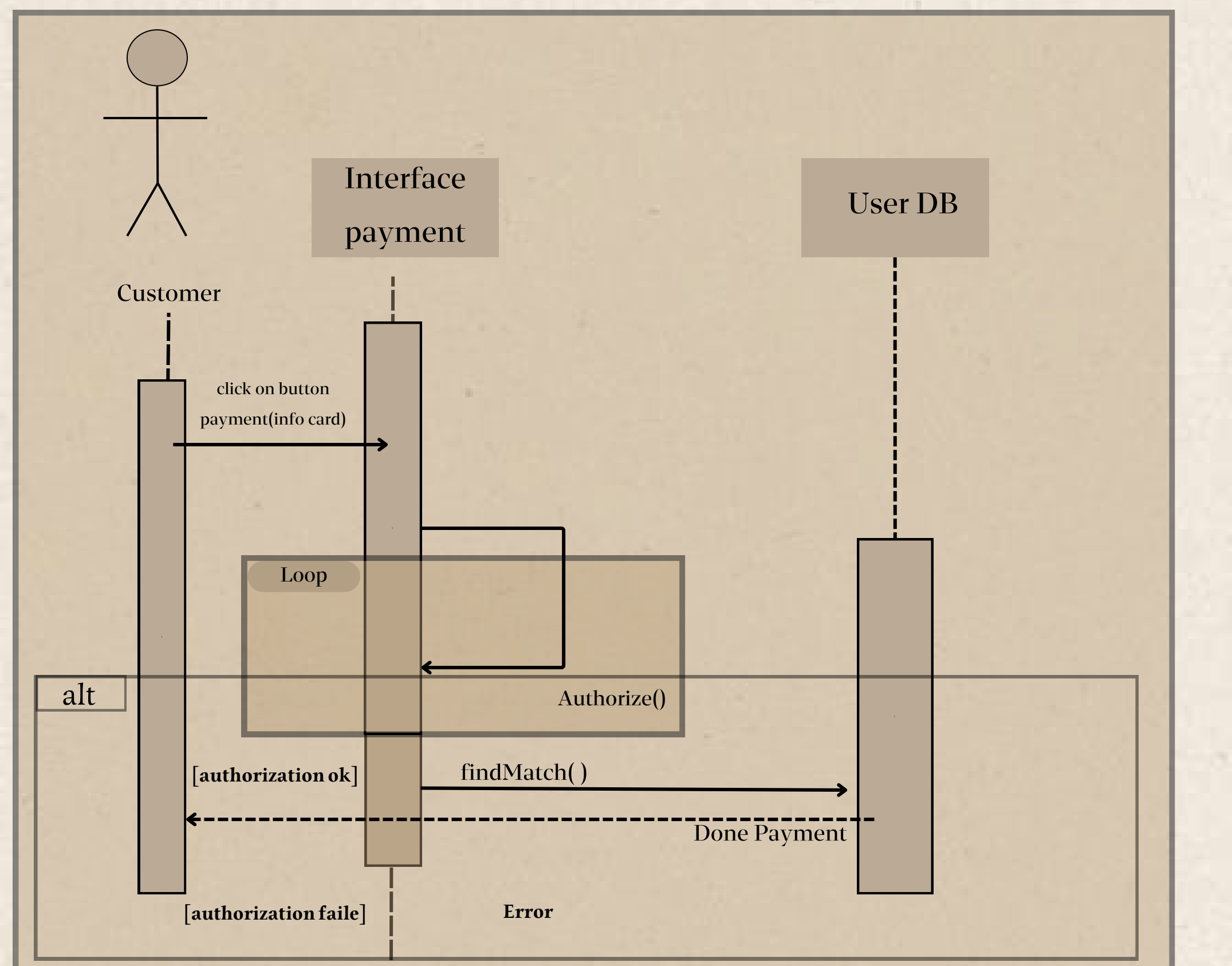
Sequanse  
log in





Sequanse  
Book place





Sequanse  
Payment



# Chapter 3





# Prototype:

على وين؟



SIGN UP

LOG IN



# Prototype:

على وين؟



FIRST NAME

LAST NAME

EMAIL

PHONE NUMBER

PASSWORD

CONFIRM PASSWORD

SIGN UP

Phone number must be start with (+966)  
Password must be 8 characters containing  
(letters, numbers, \_)



# Prototype:

على وين؟



Create your account  
successfully



NEXT



# Prototype:

على وين؟



Email , Phone number

Password

LOG IN

Don't have an account ? SIGN UP



# Prototype:

على وين؟



Validatin coed

— — — —



NEXT



# Prototype:

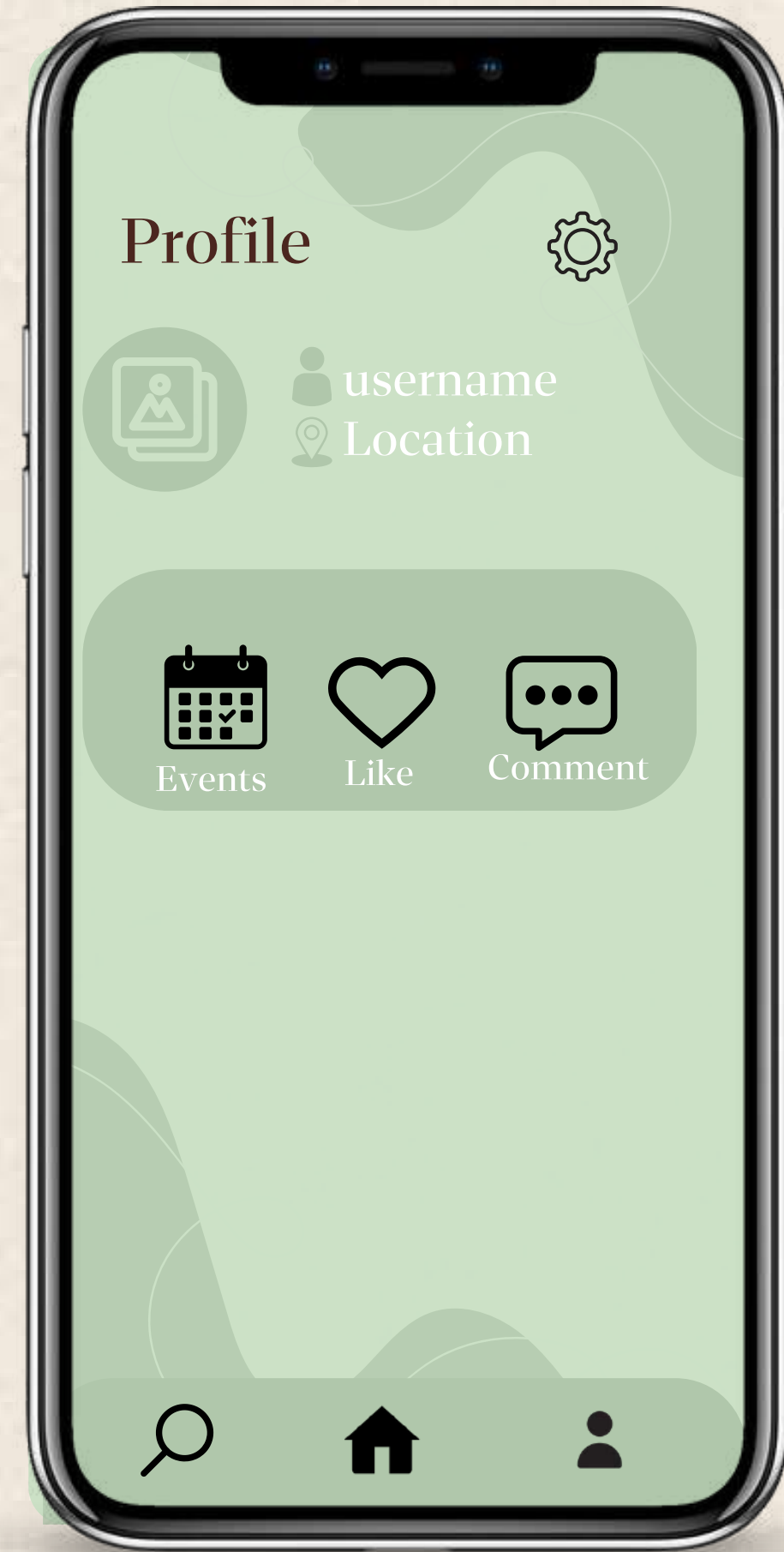
على وين؟



Validatin  
Successfully



# Prototype:





# Prototype:

على وين؟



Book a place



Check reservation



Restaurants



Cafe



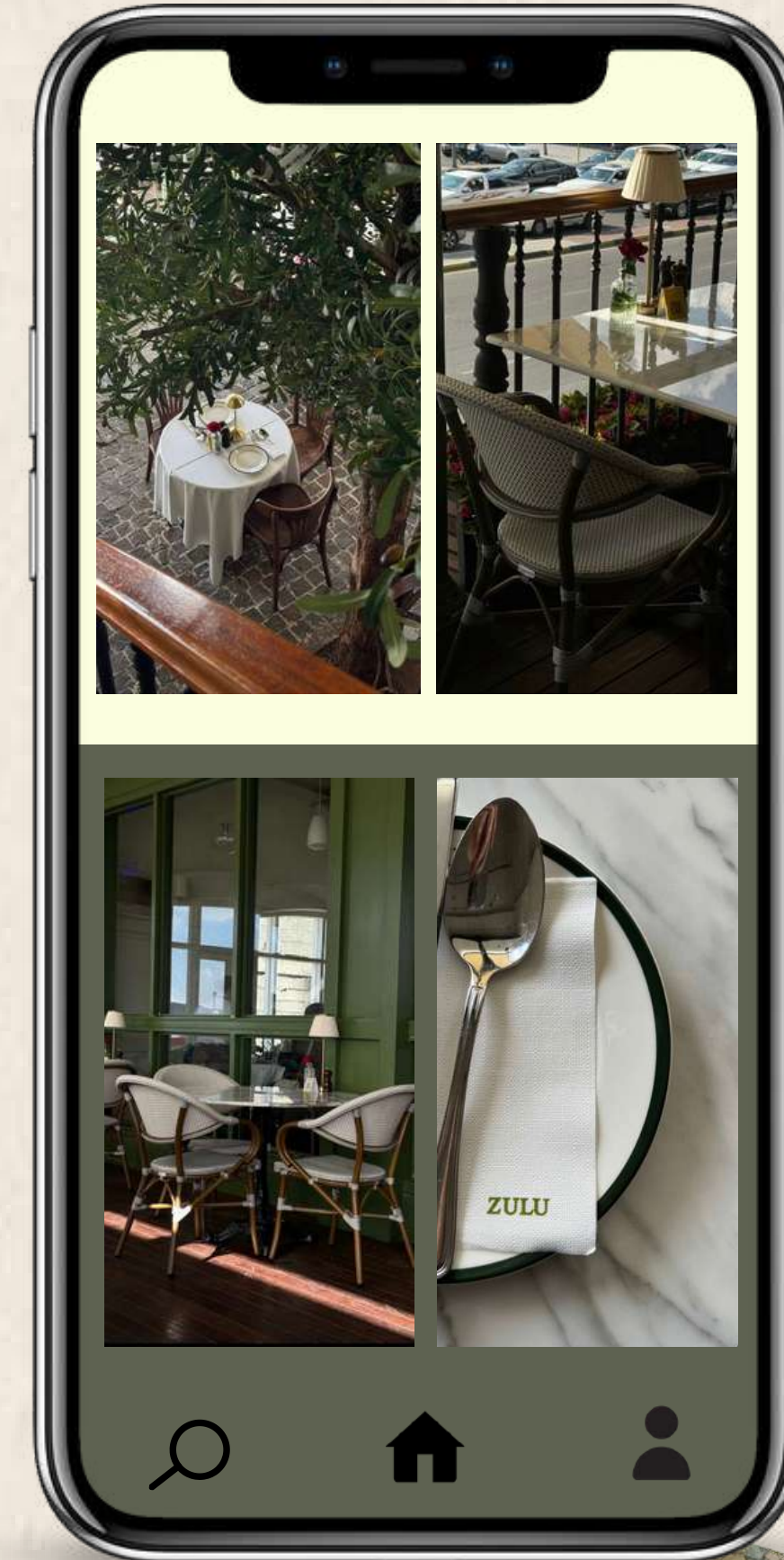
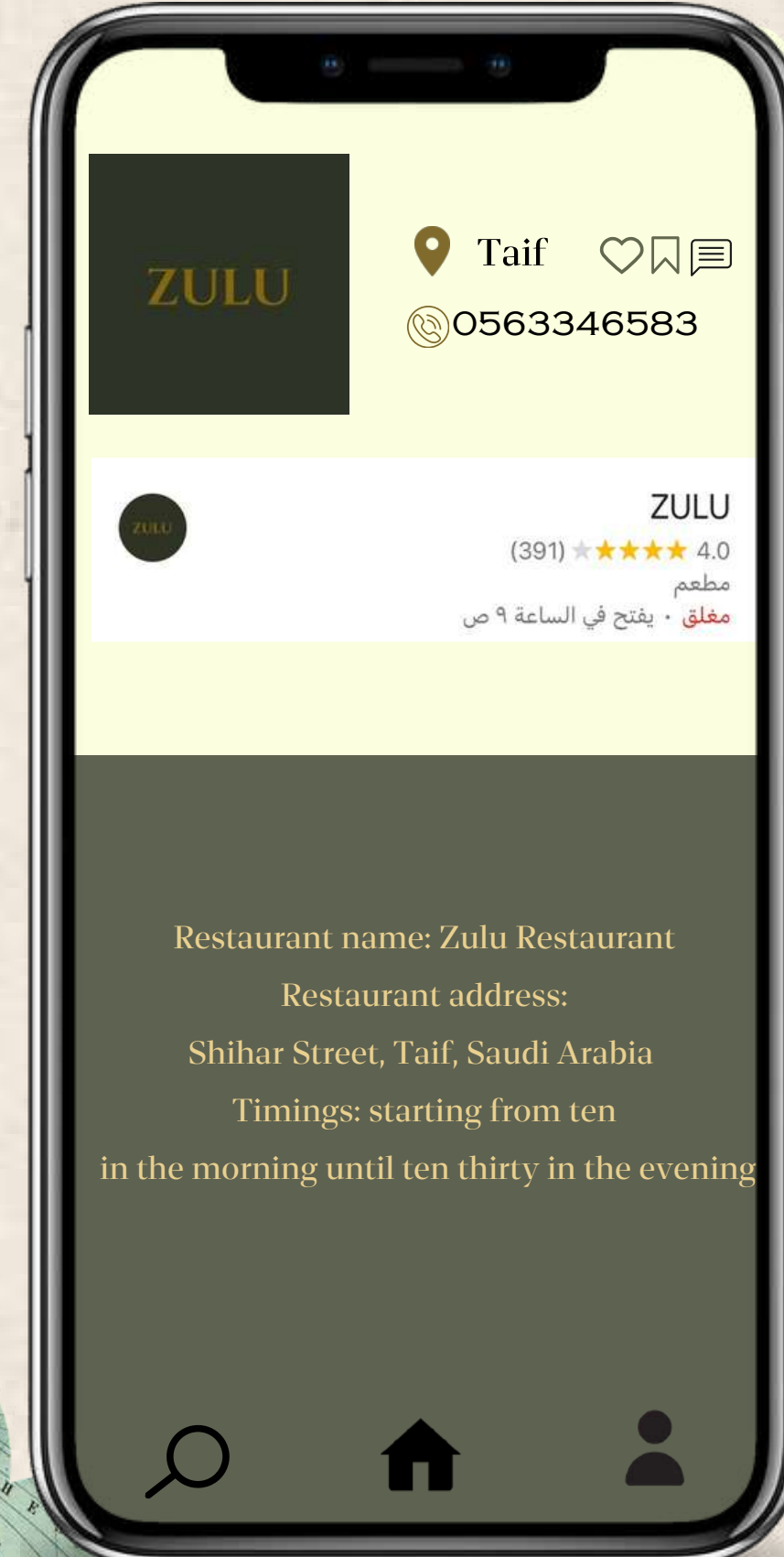
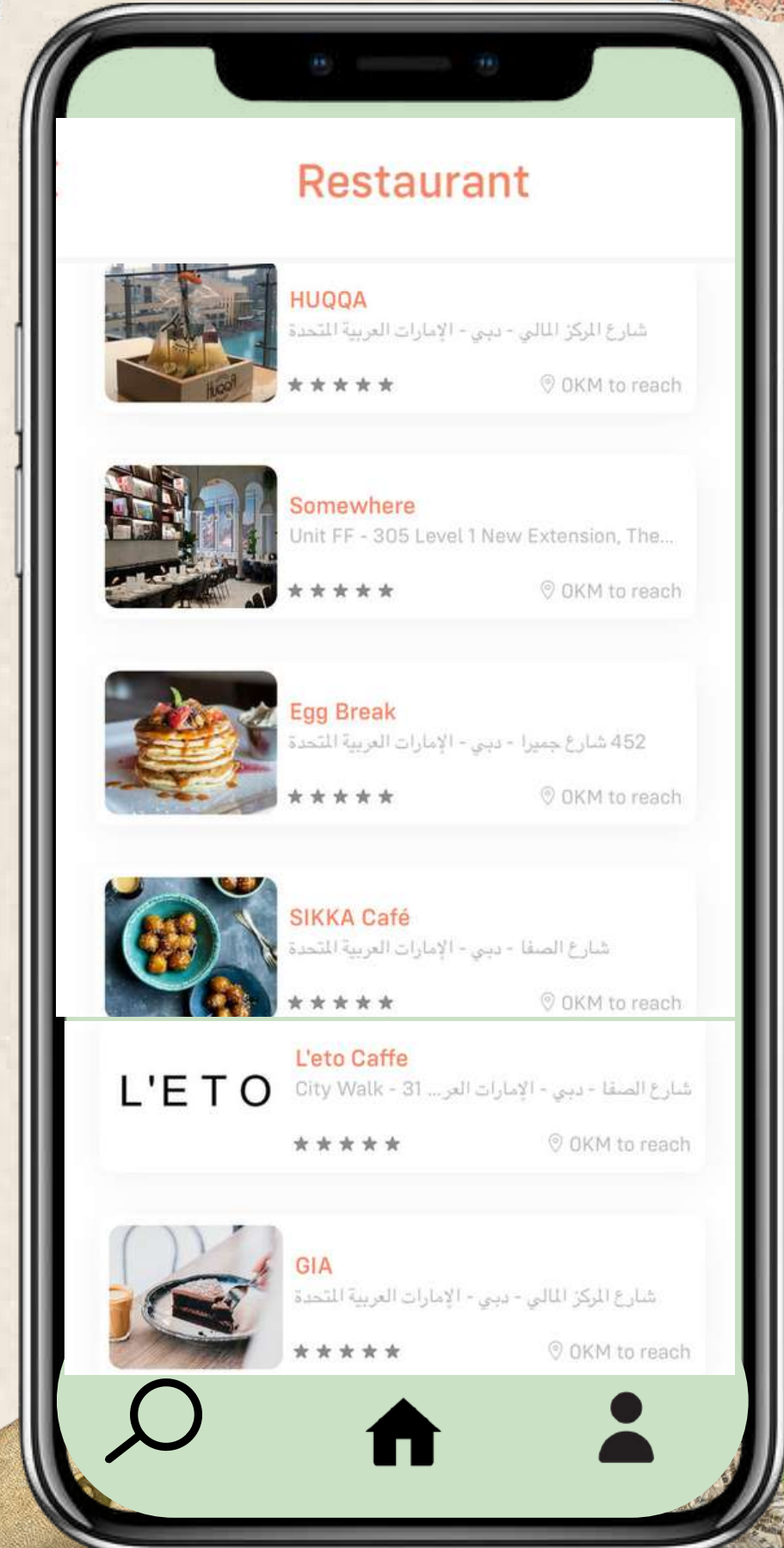
Events



Study places

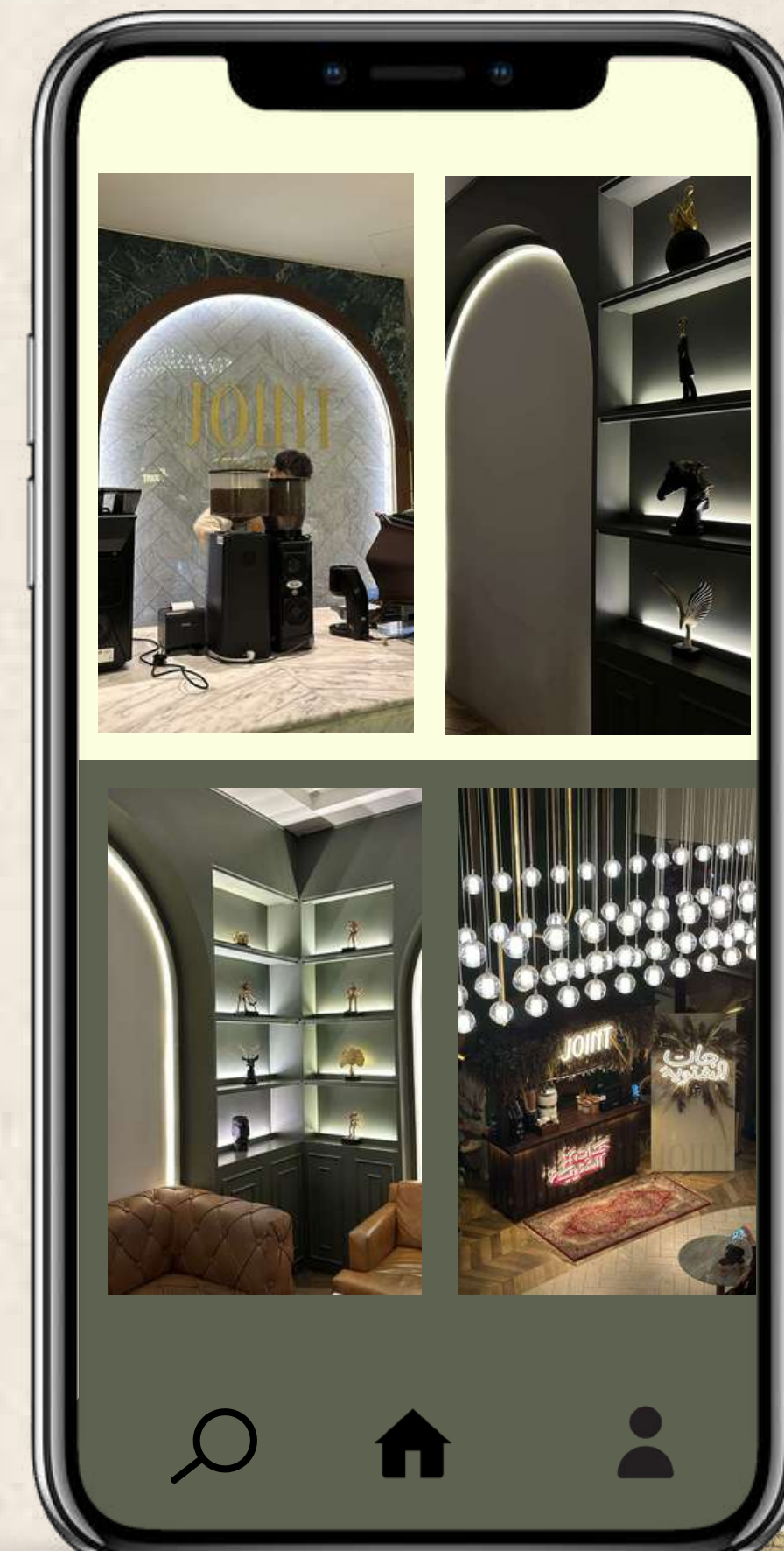
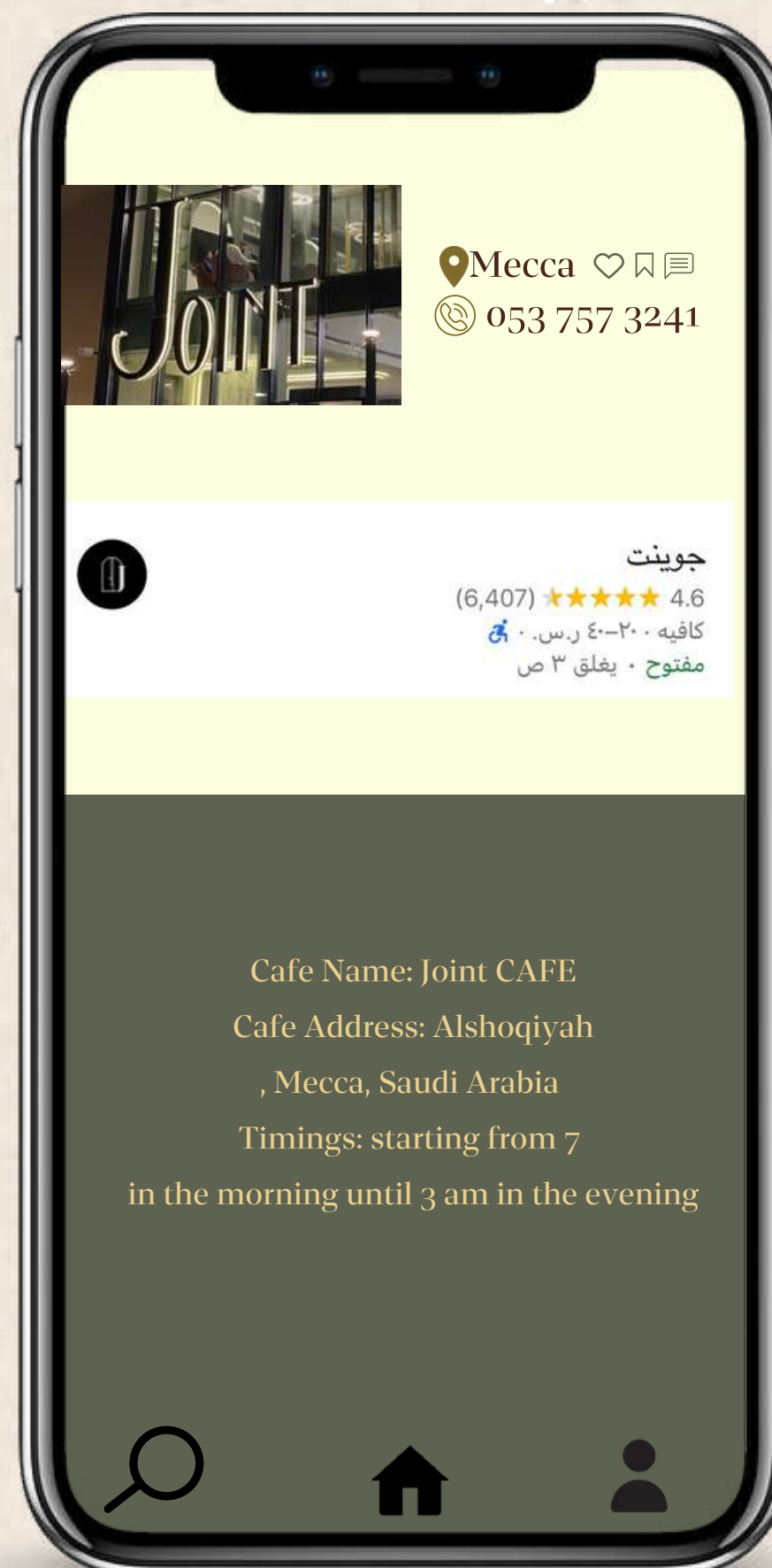
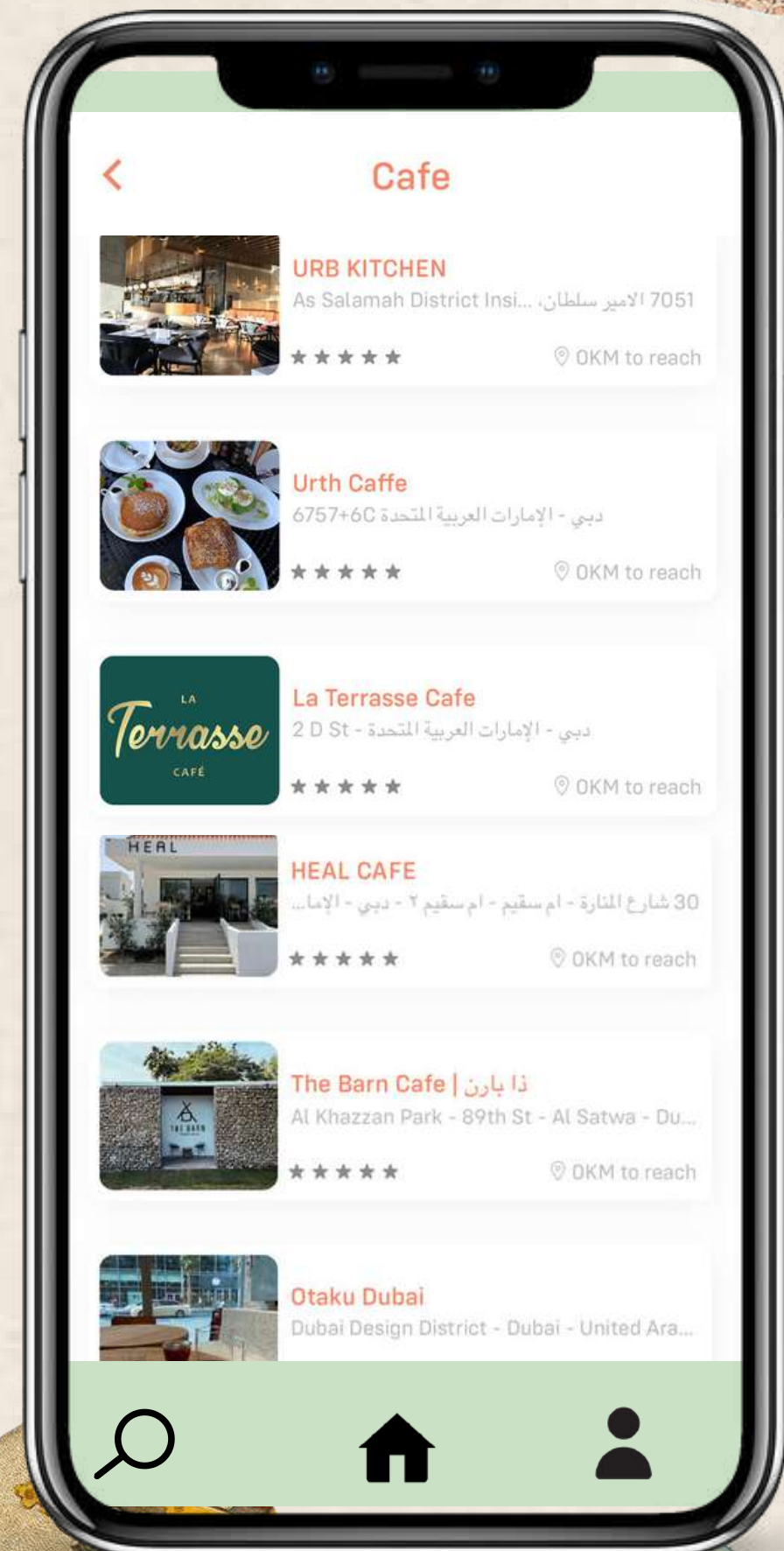


# Prototype:



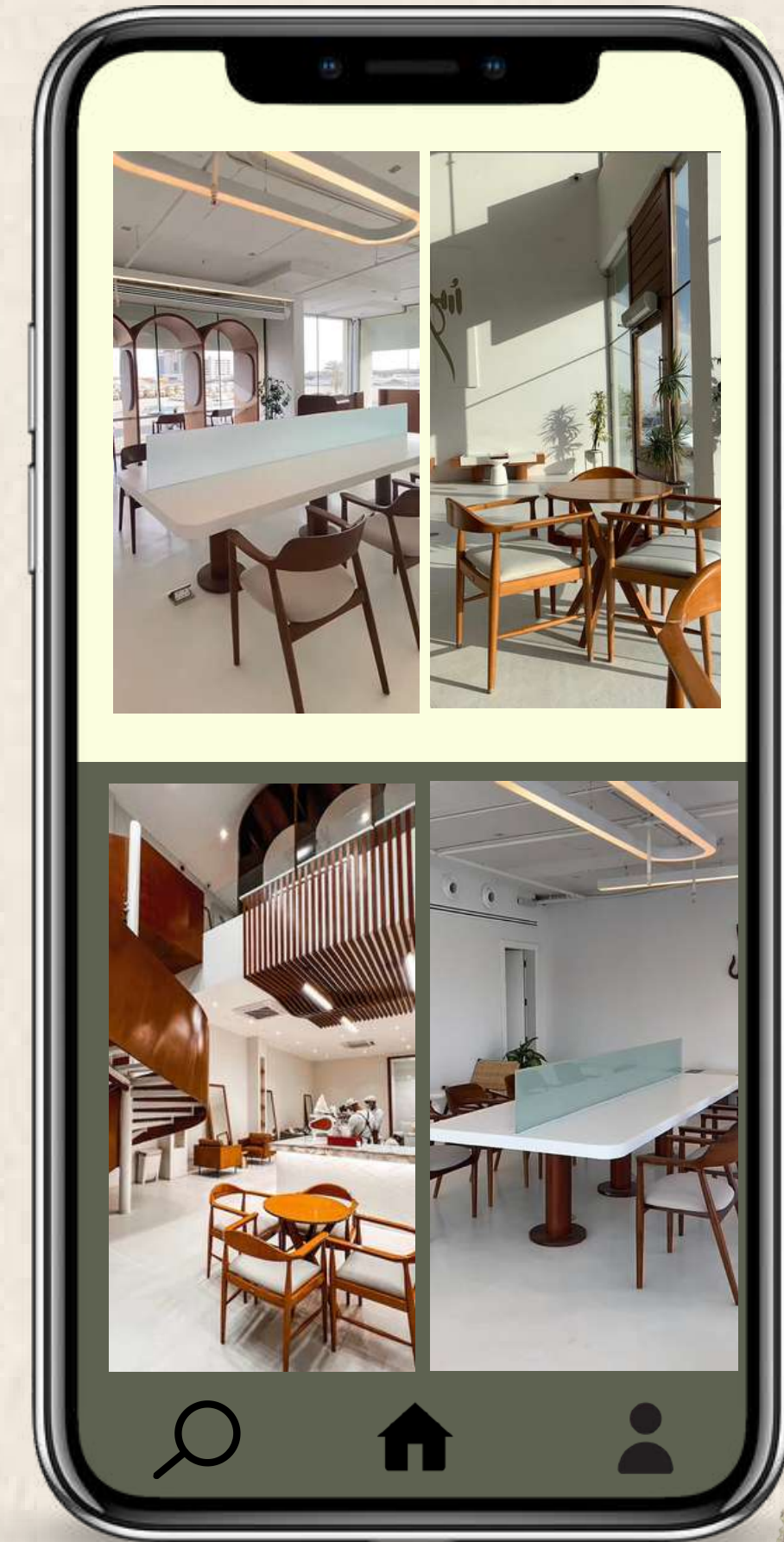
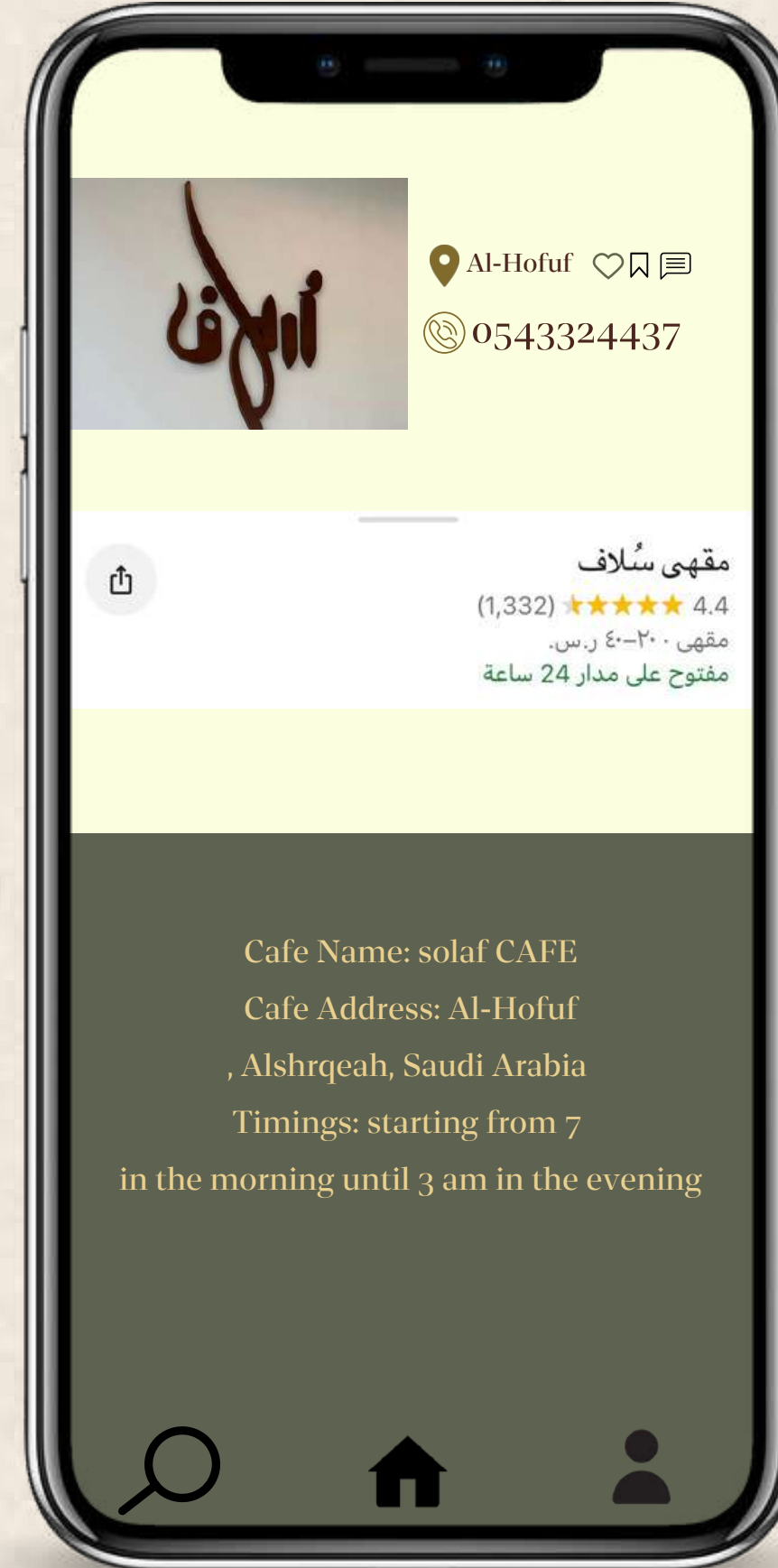
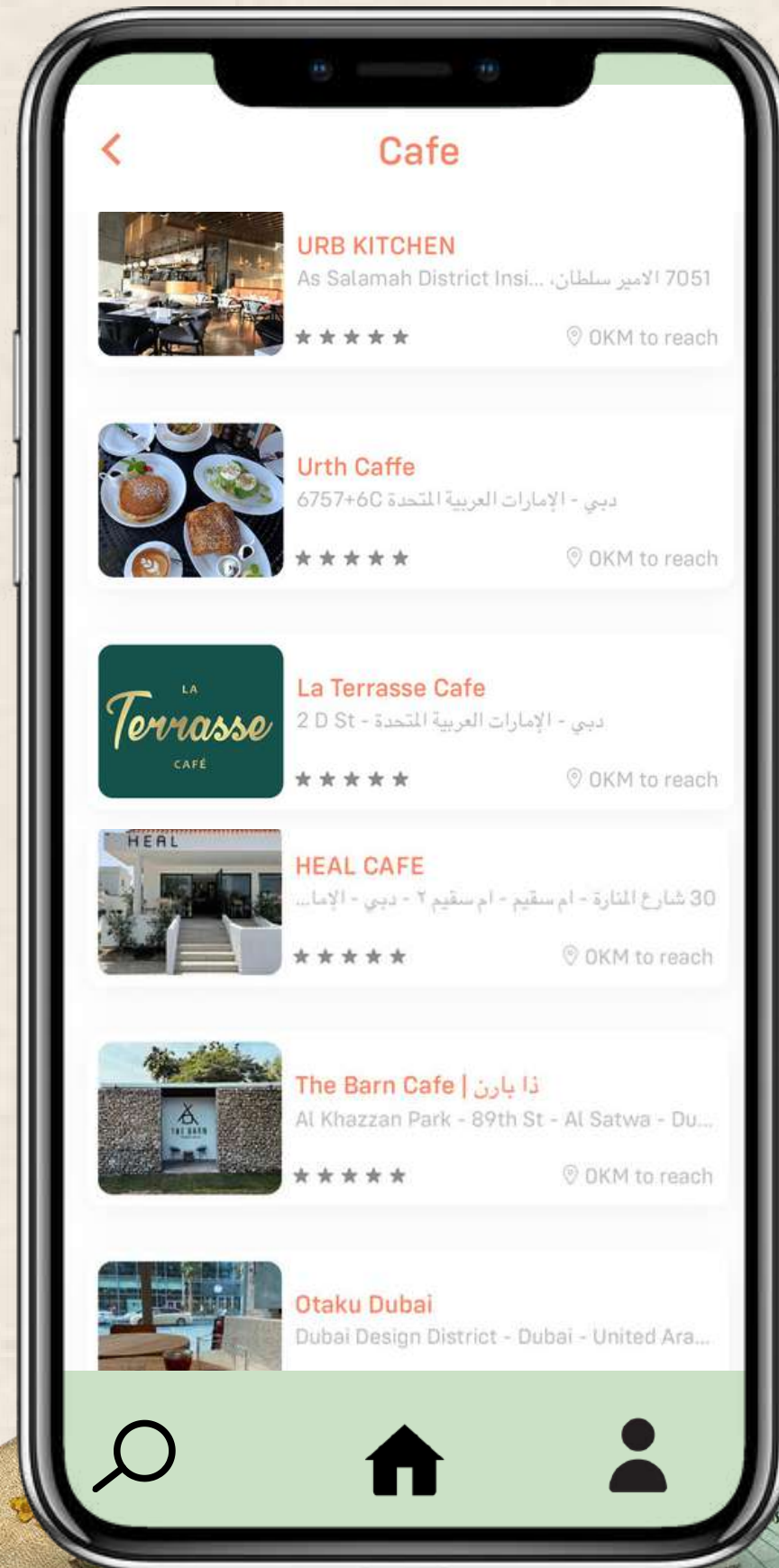


# Prototype:



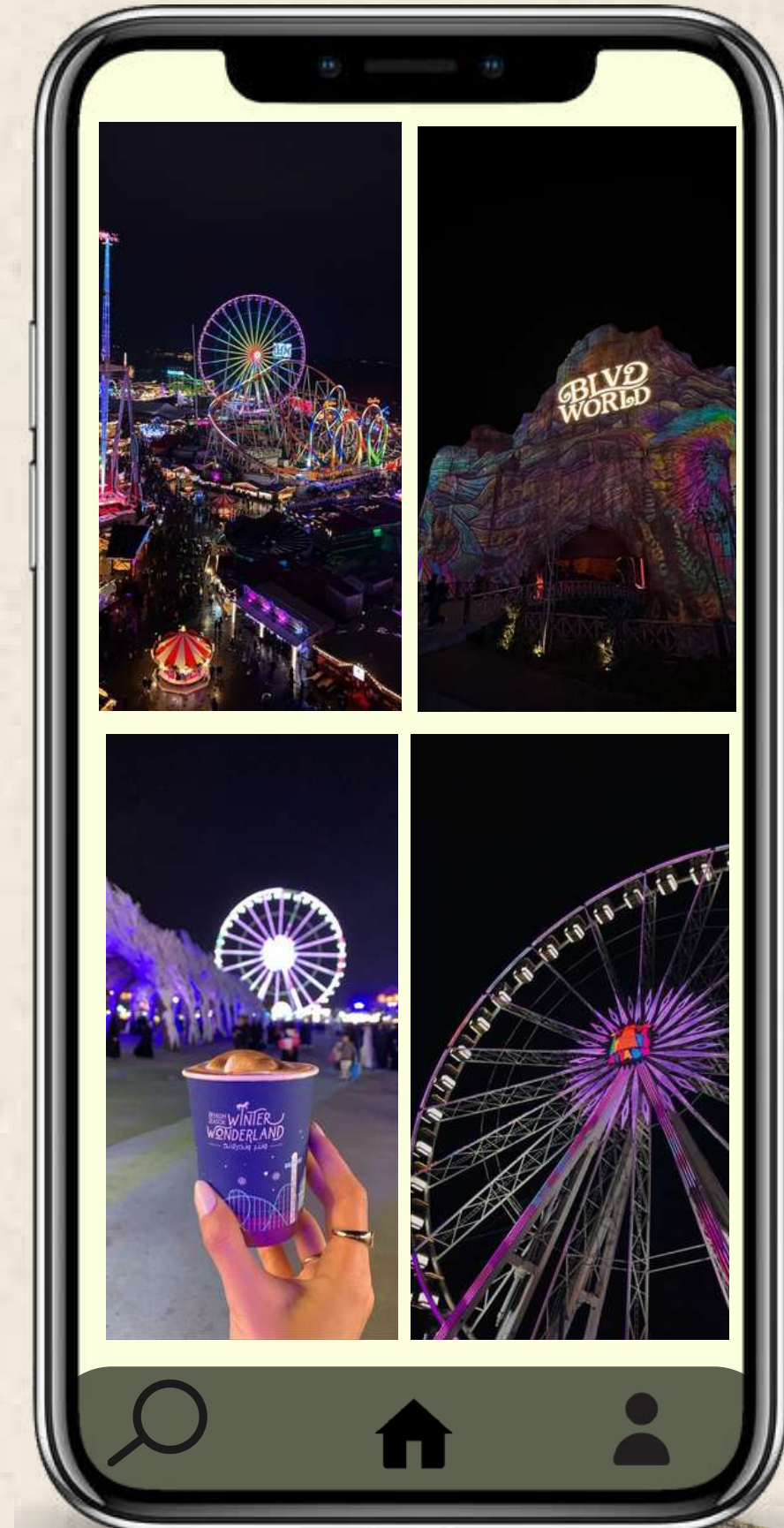
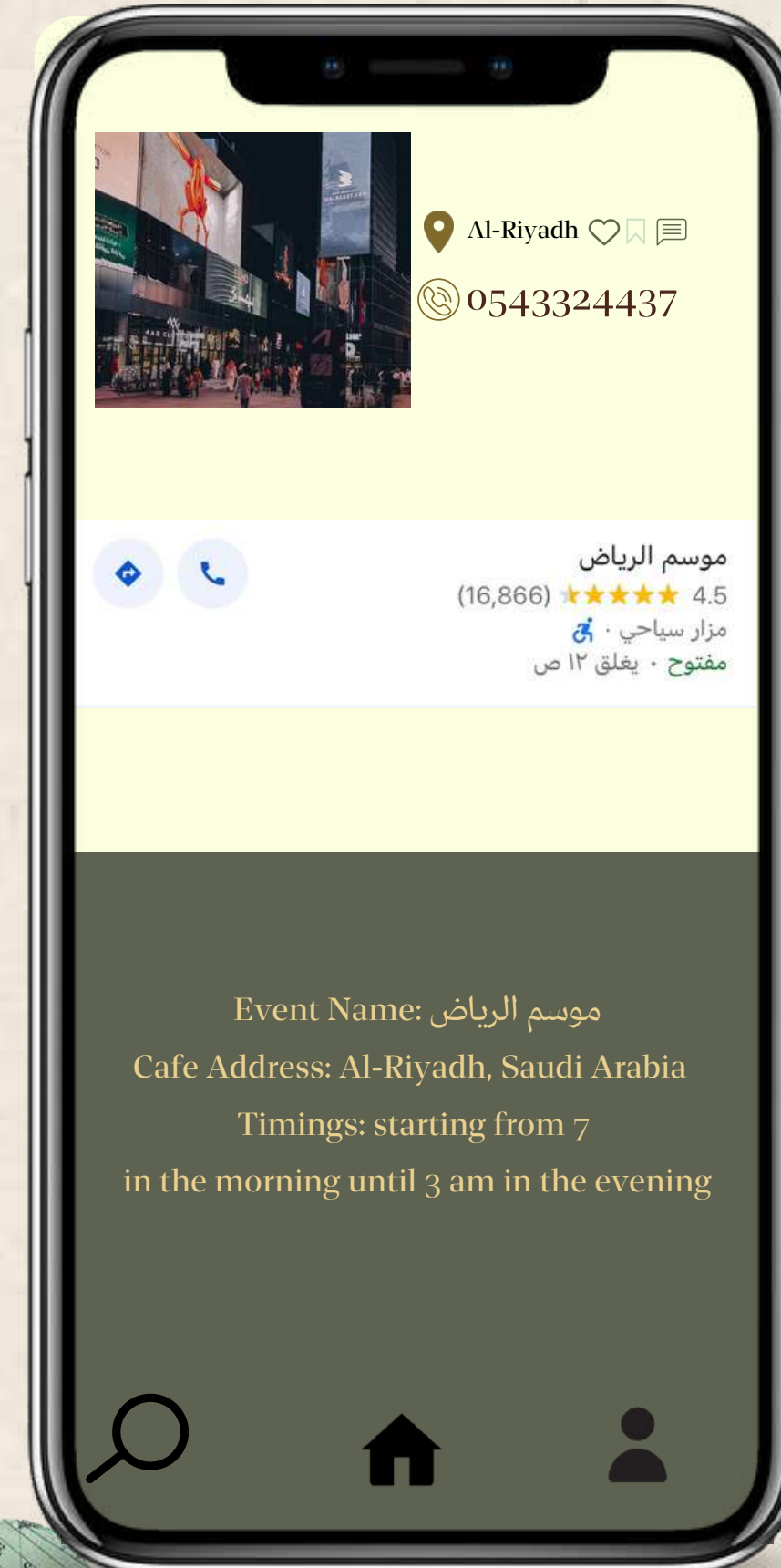
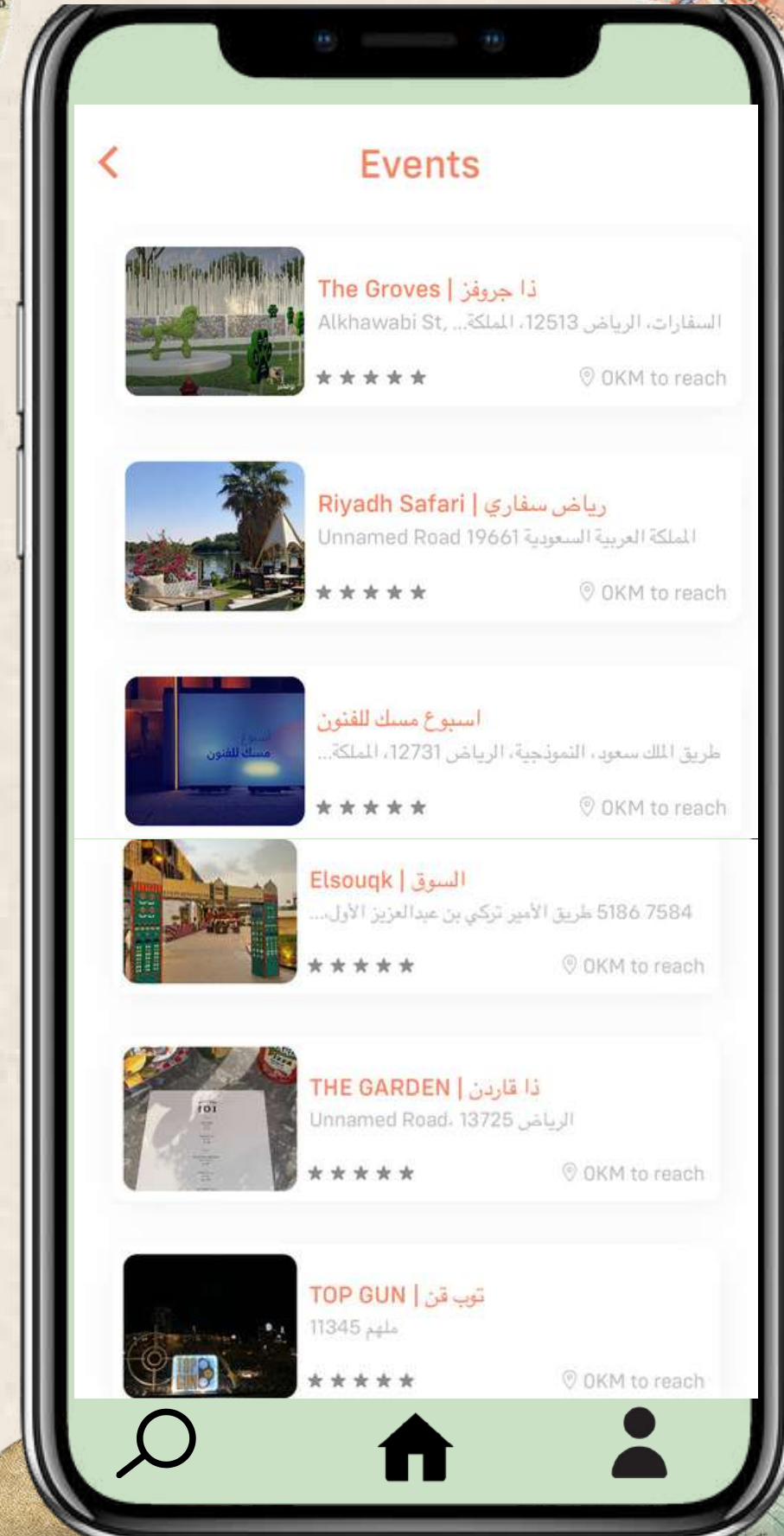


# Prototype:





# Prototype:





# Prototype:

## Booking details



Select Day

SU	MO	TU	WE	TH	FR	SA
		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			

NEXT



## Booking details



Select Time

13:00 ^

9:00

10:00

11:00

12:00

13:00 ✓

NEXT



## Booking details



Price

تذكرة دخول أيام الأسبوع -  
(الحد الأقصى 5)

35.00 ريال

- 2 +

70 ريال

الإجمالي

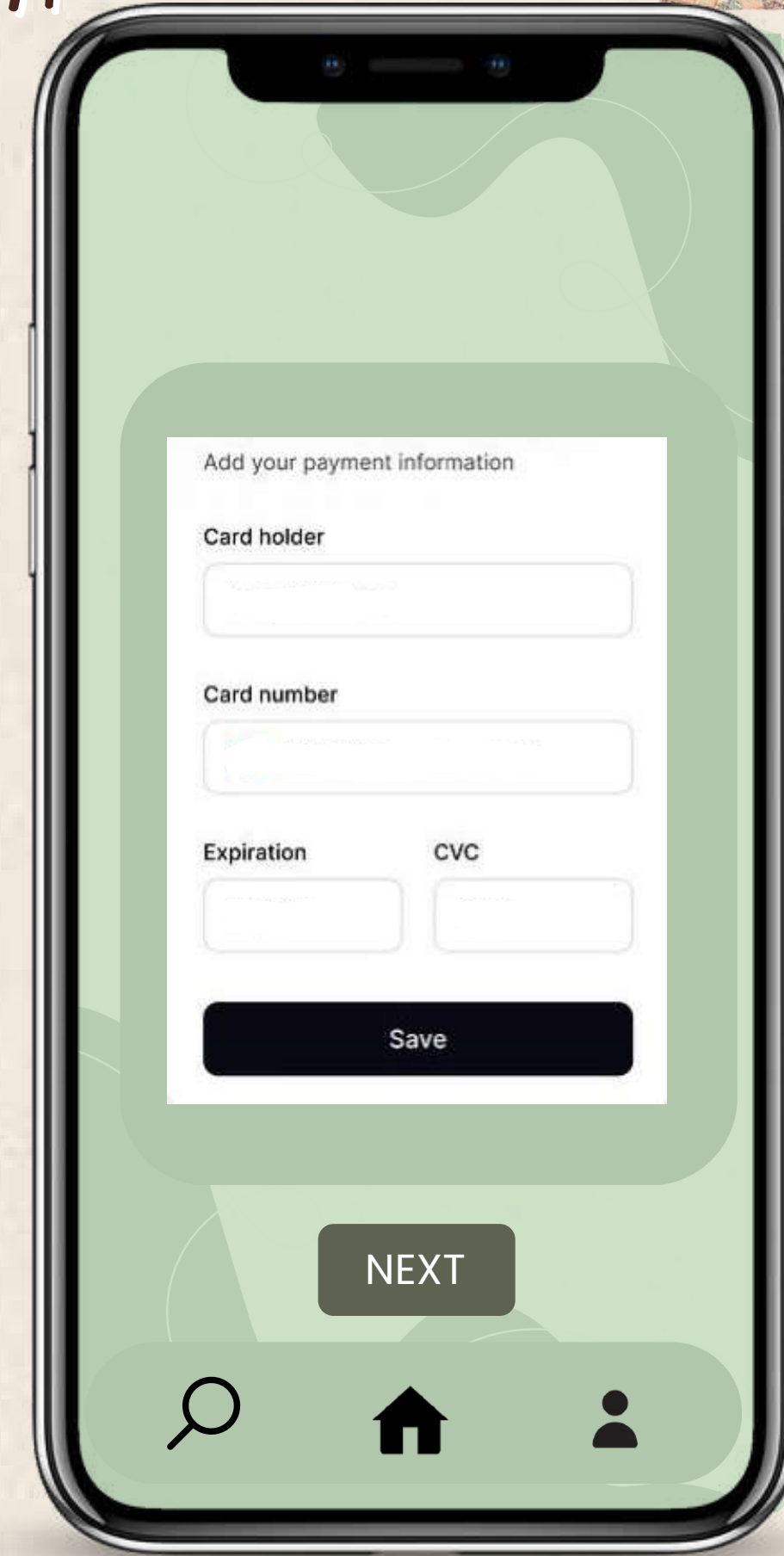
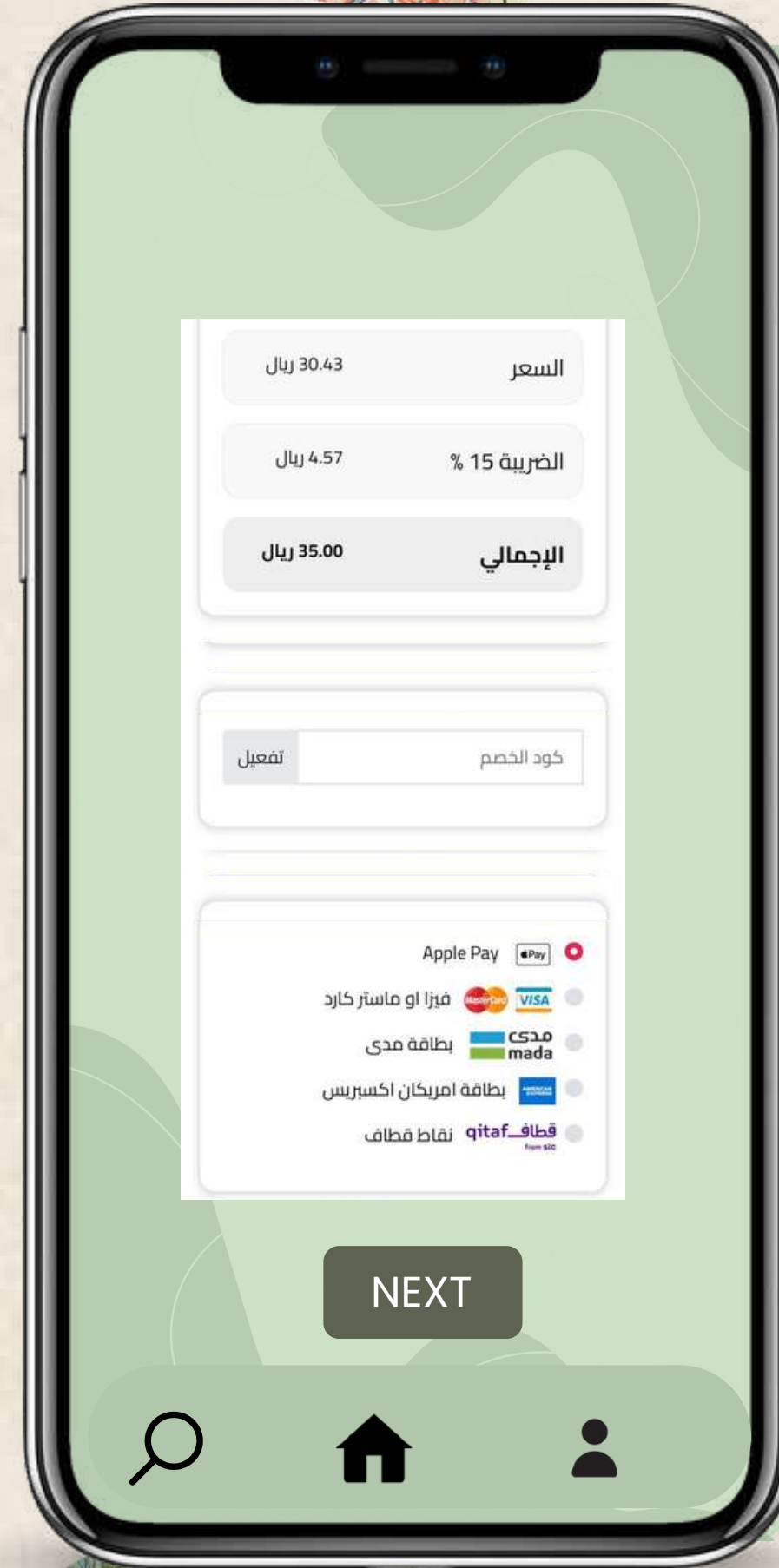
اشتر الآن

NEXT





# Prototype:



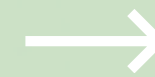


# Prototype:

على وين؟



Payment completed  
successfully



NEXT



# Prototype:

على وين؟



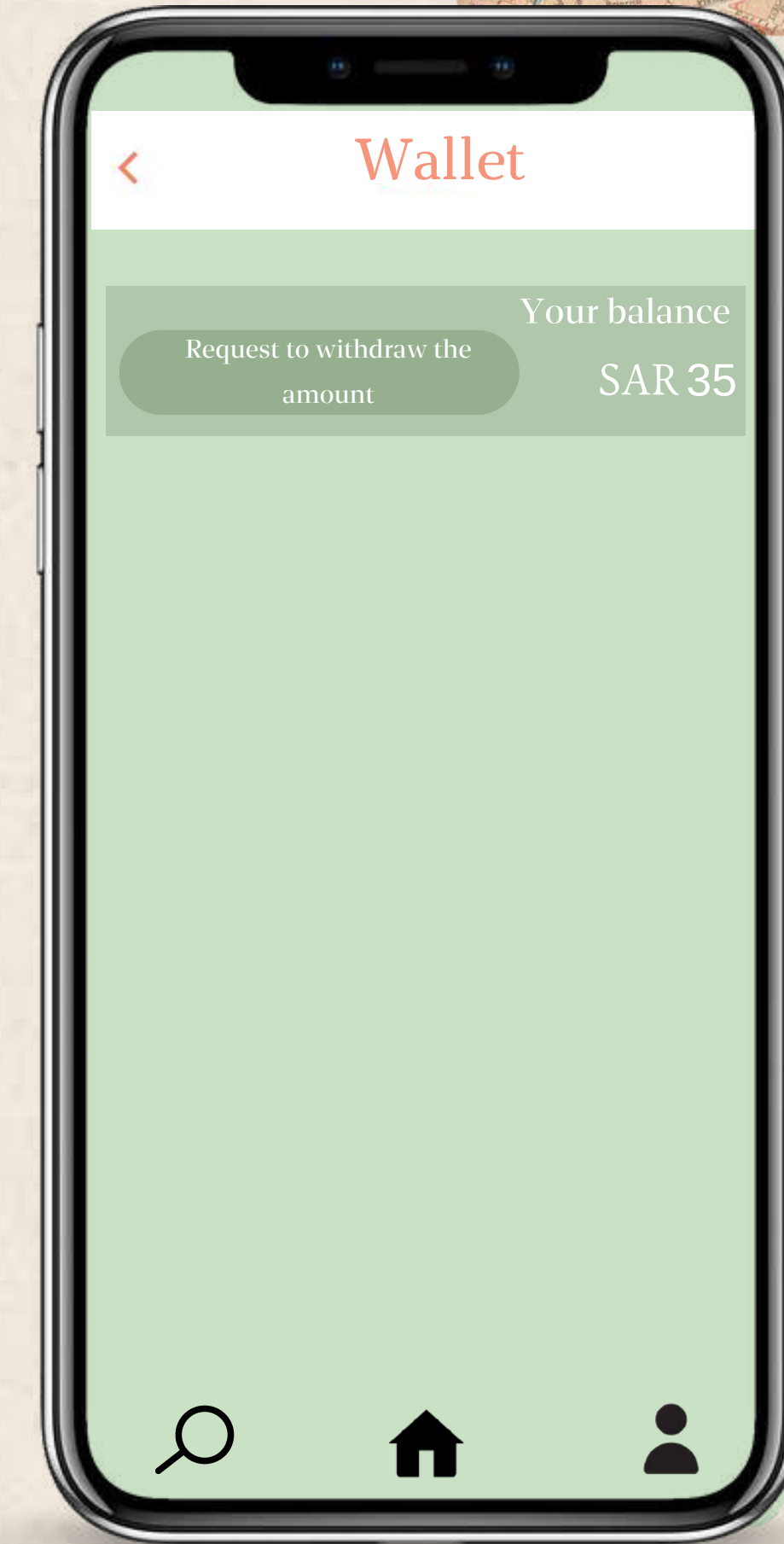
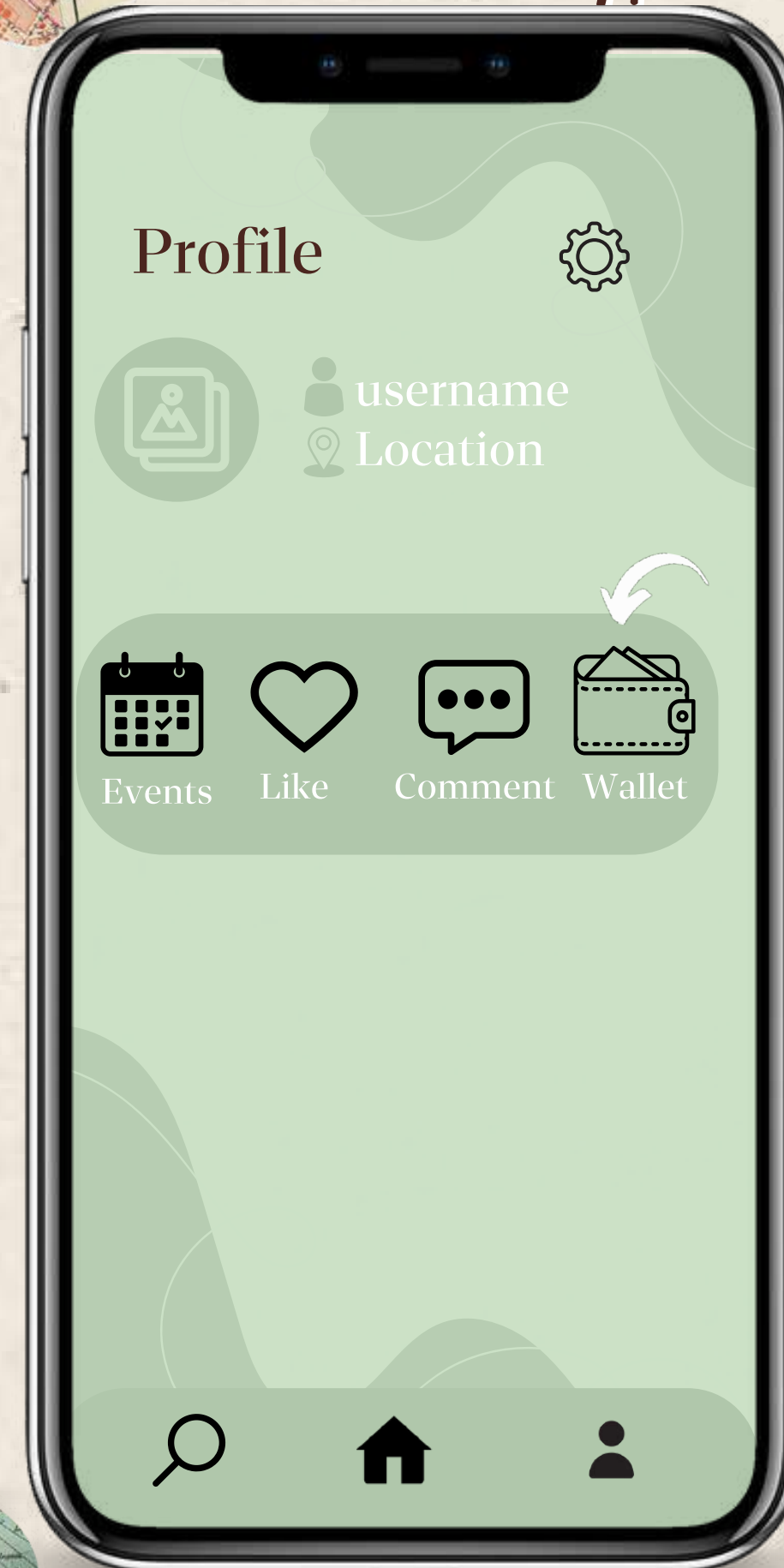
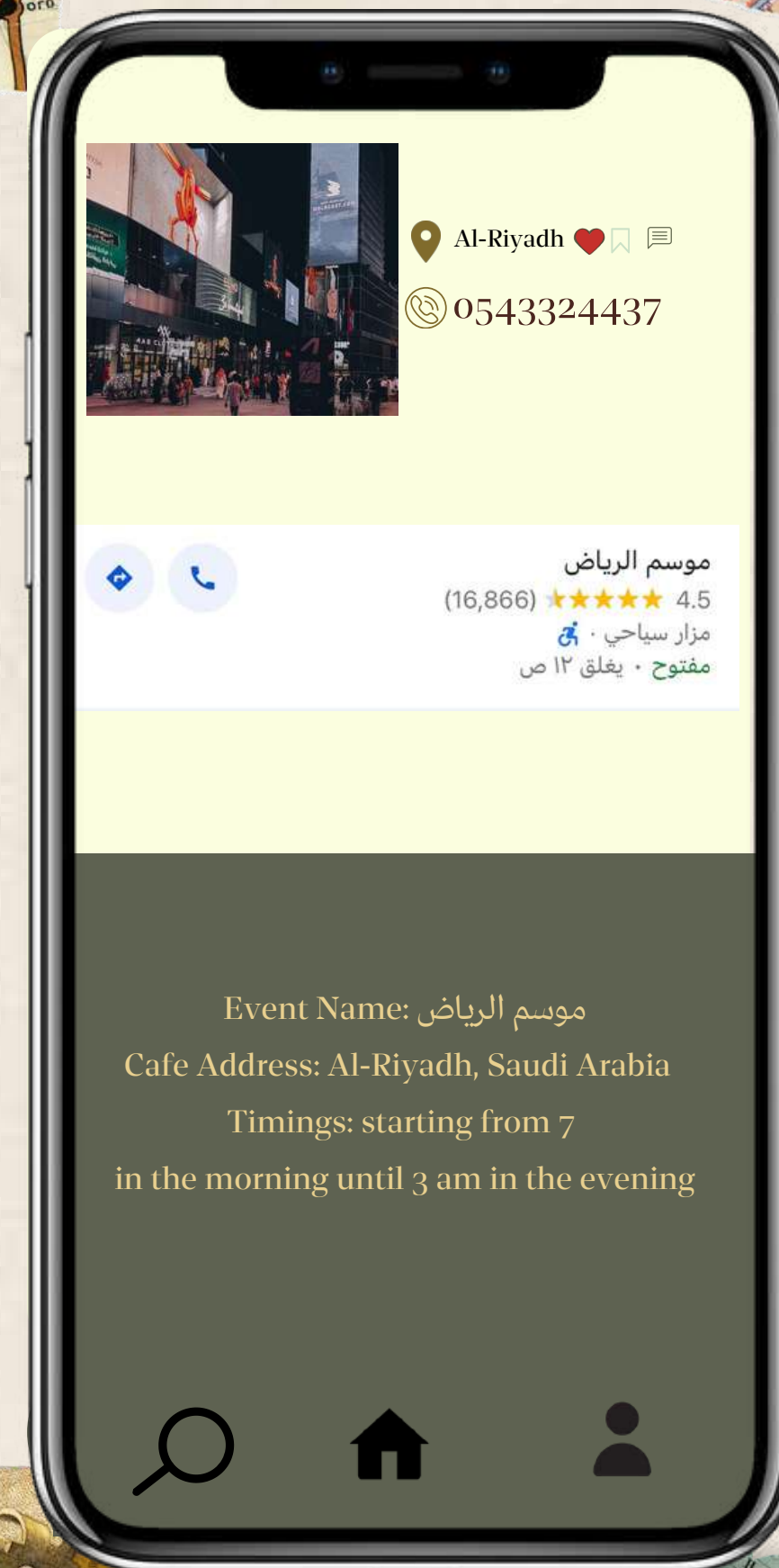
Your reservation has been  
successfully cancelled



NEXT

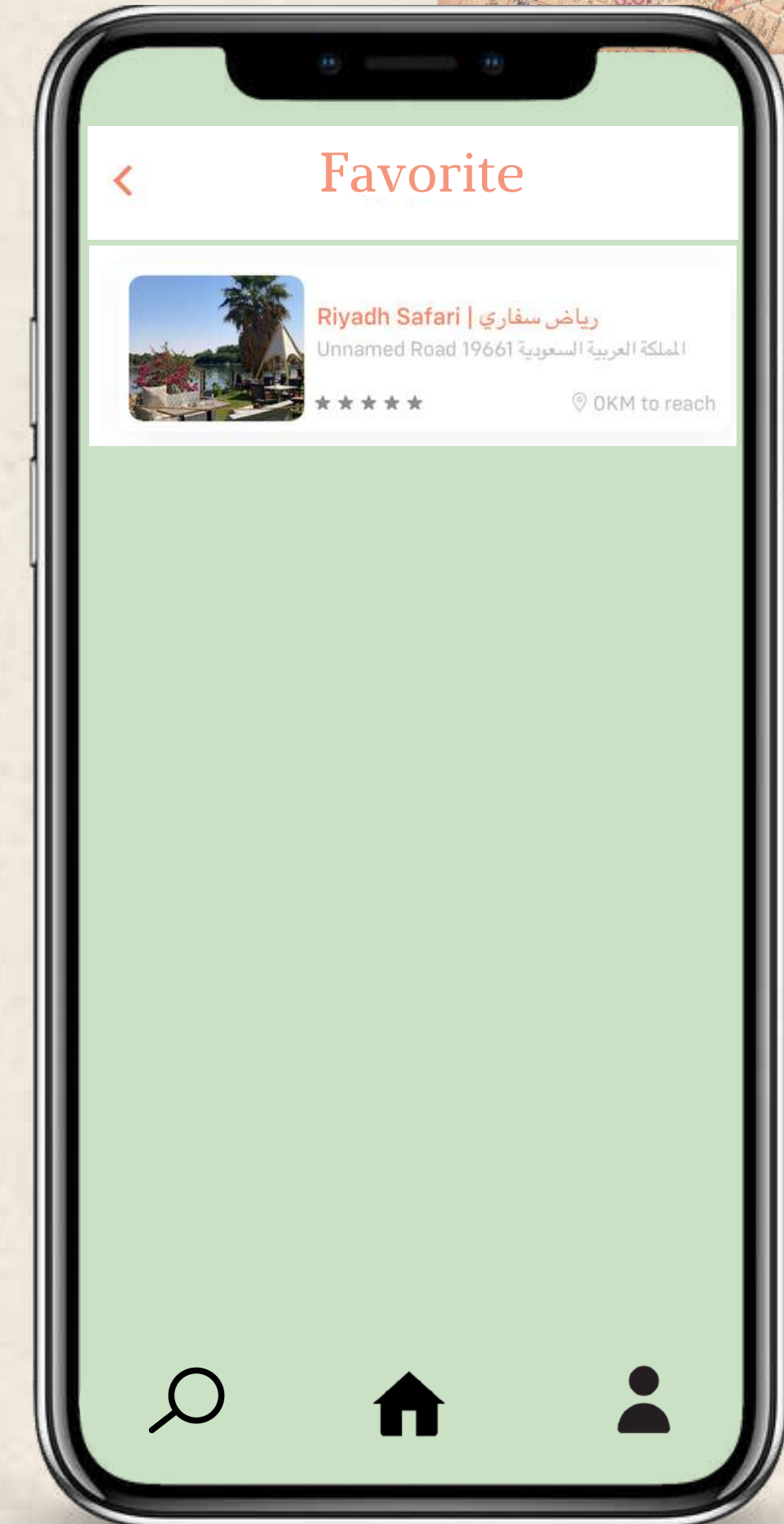
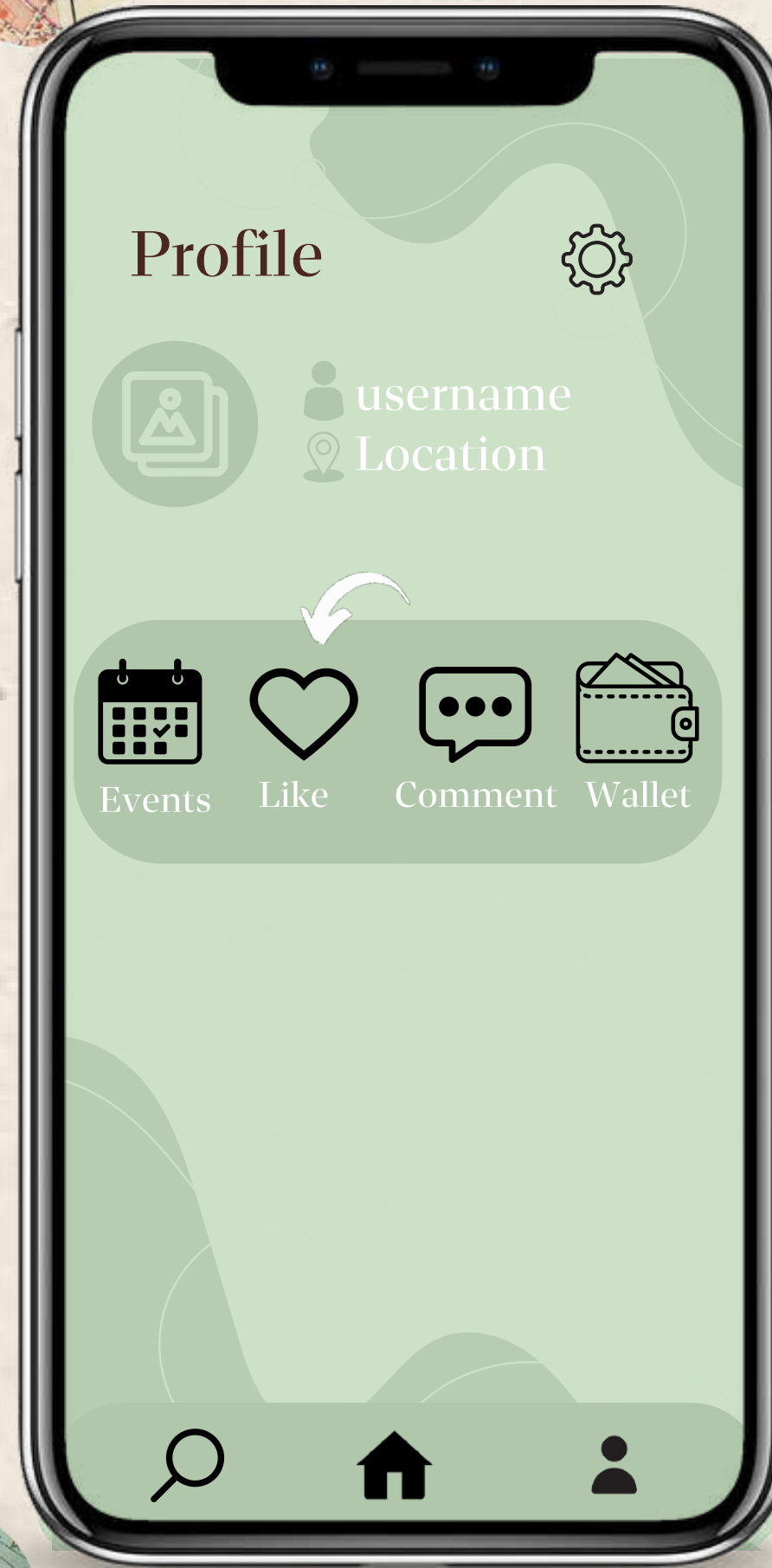
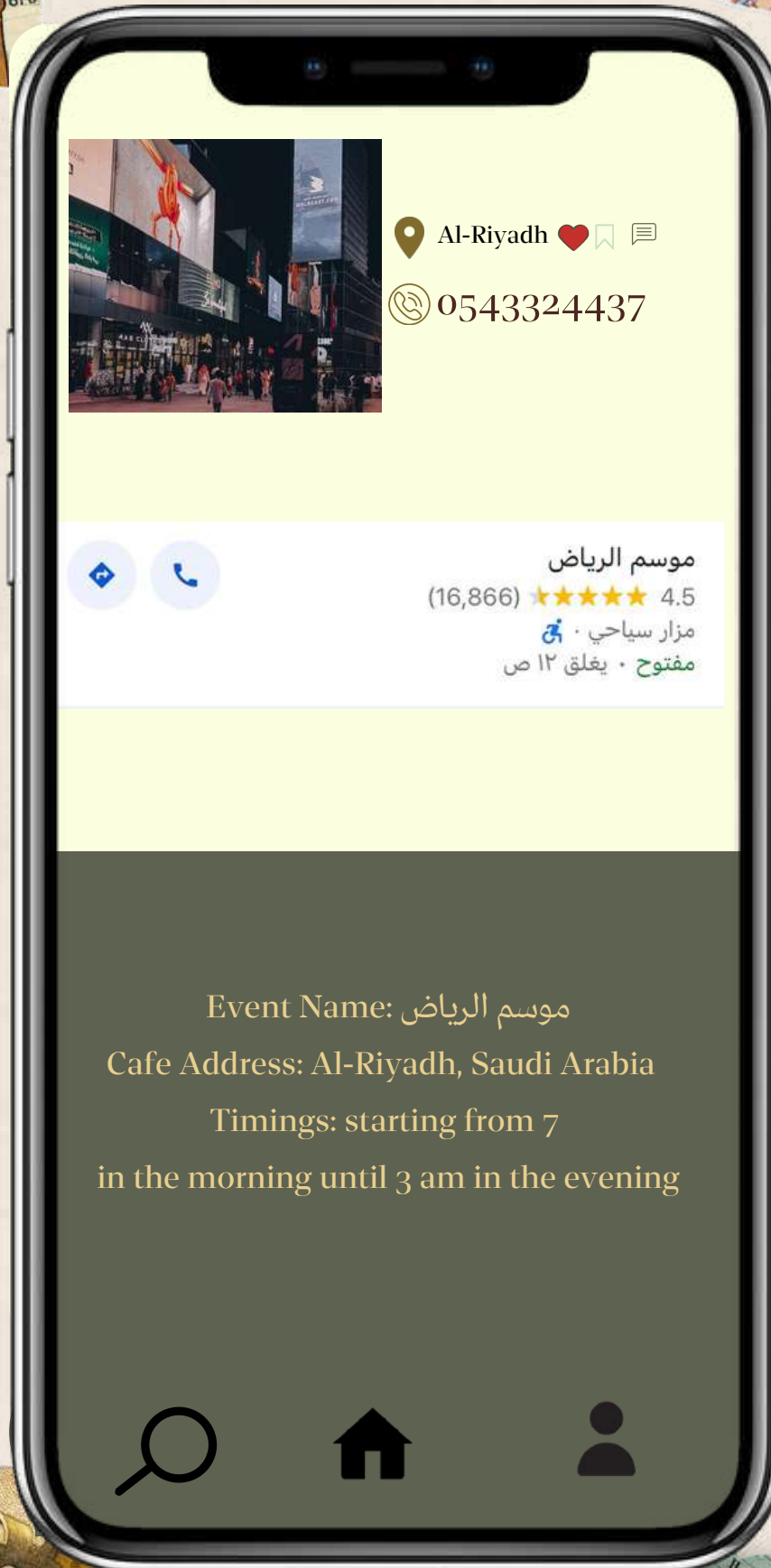


# Prototype:



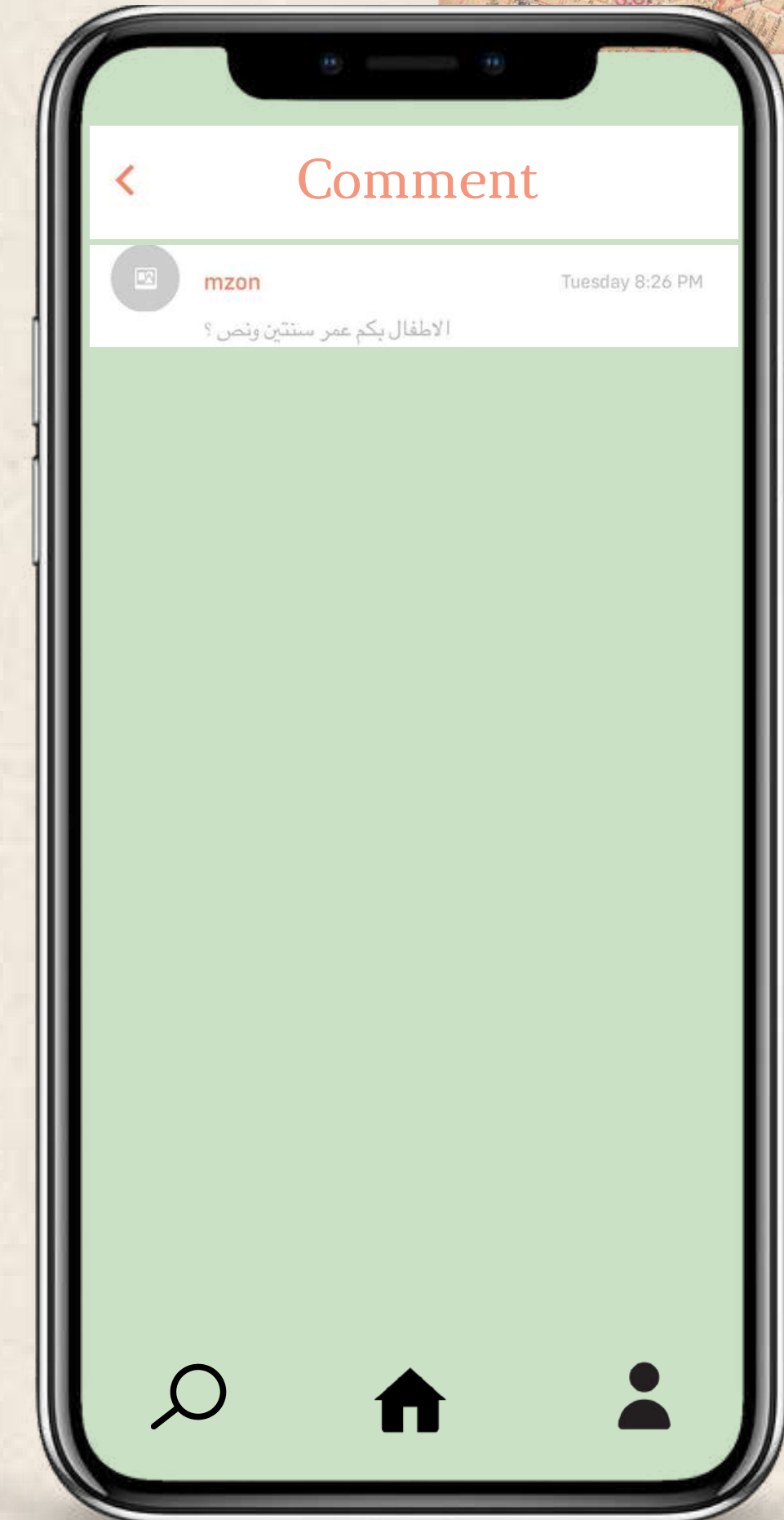
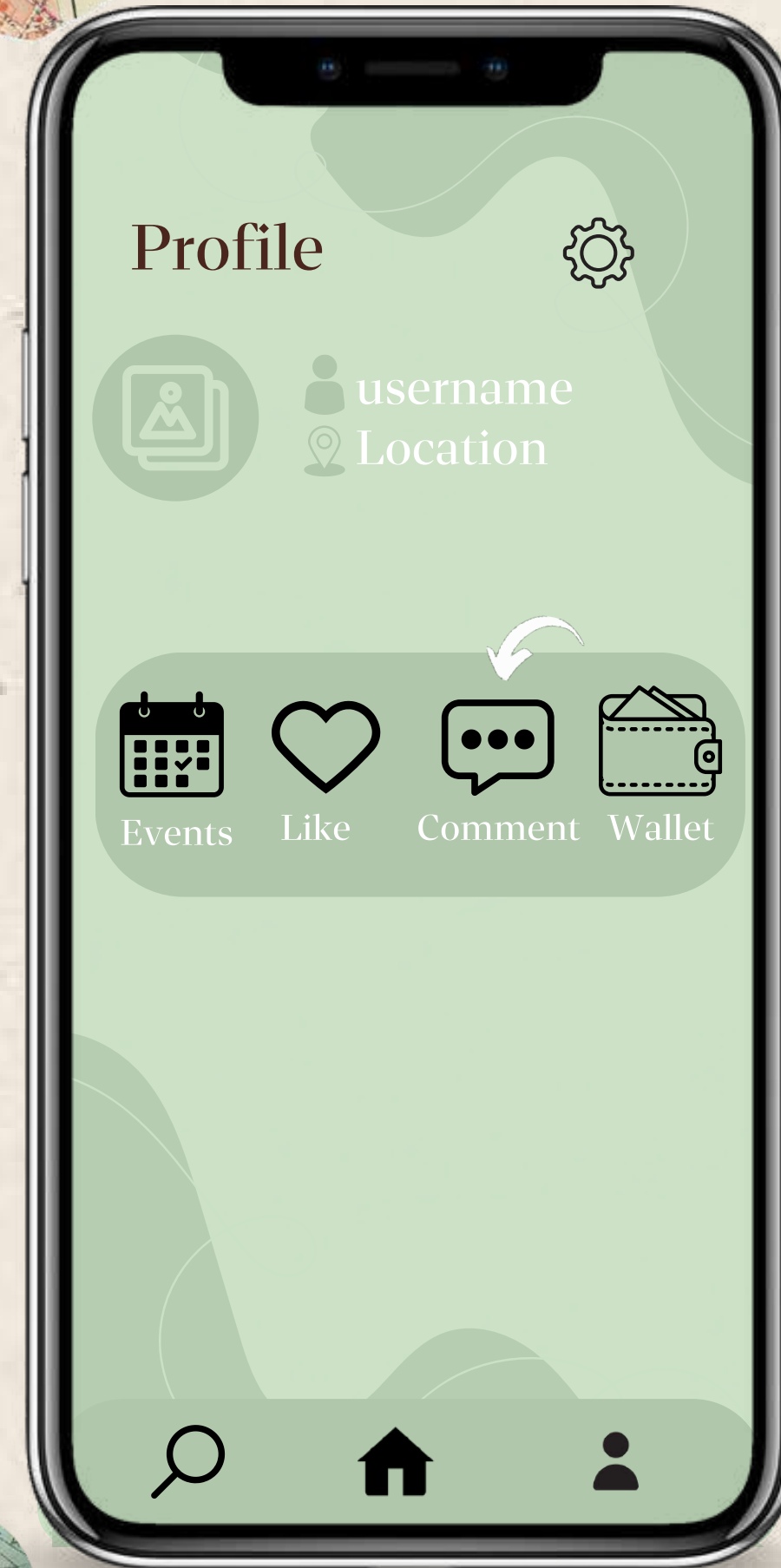
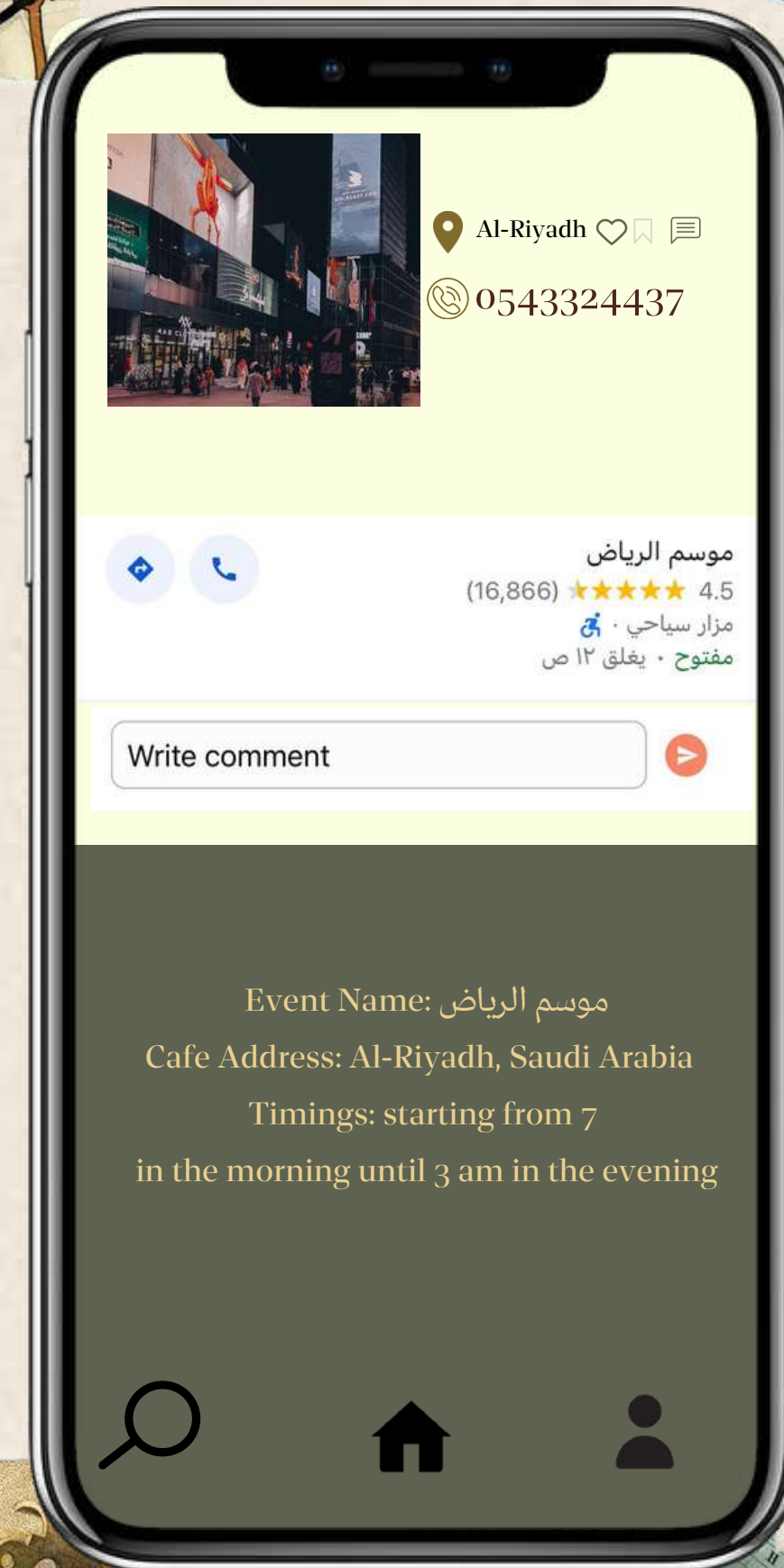


# Prototype:



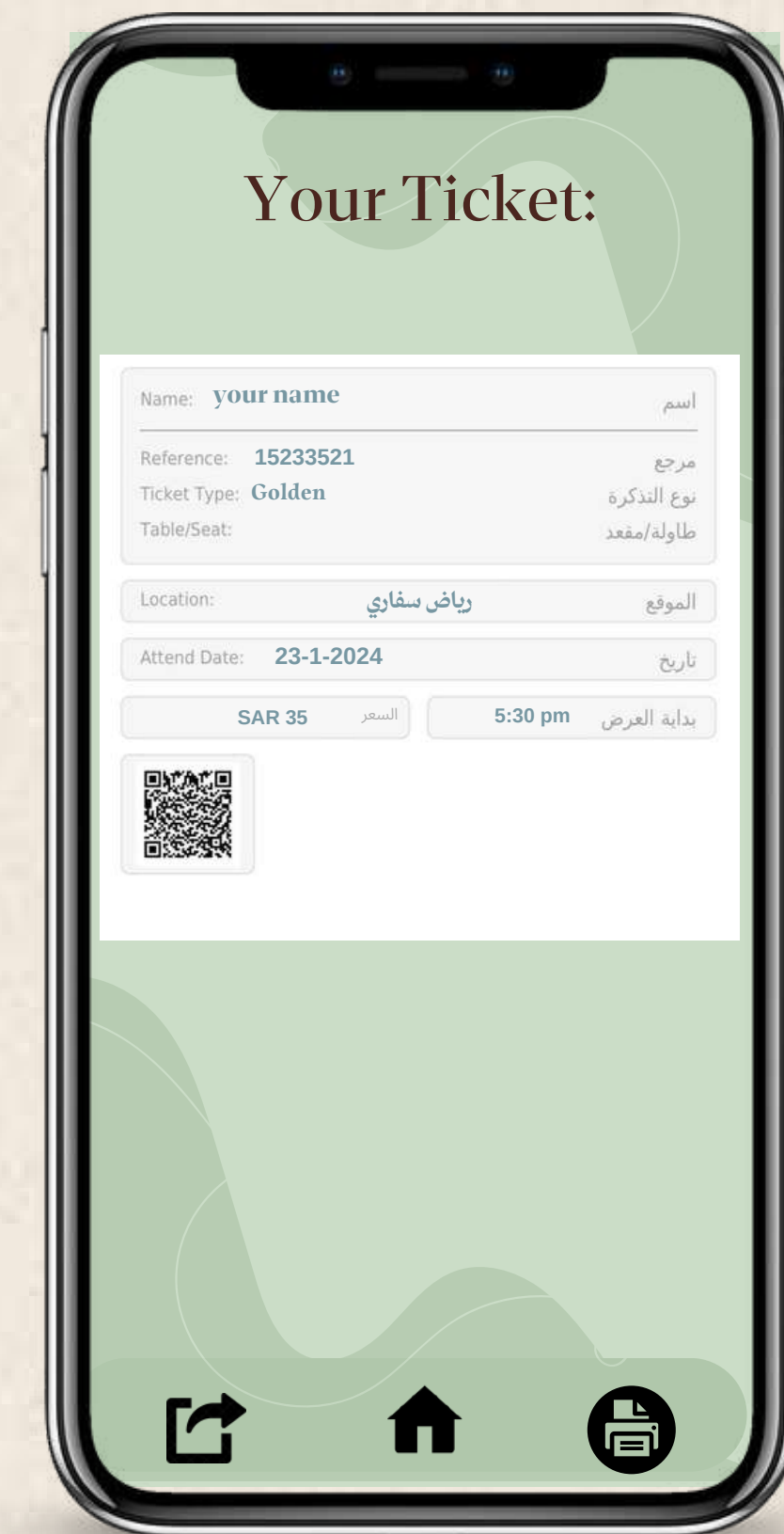
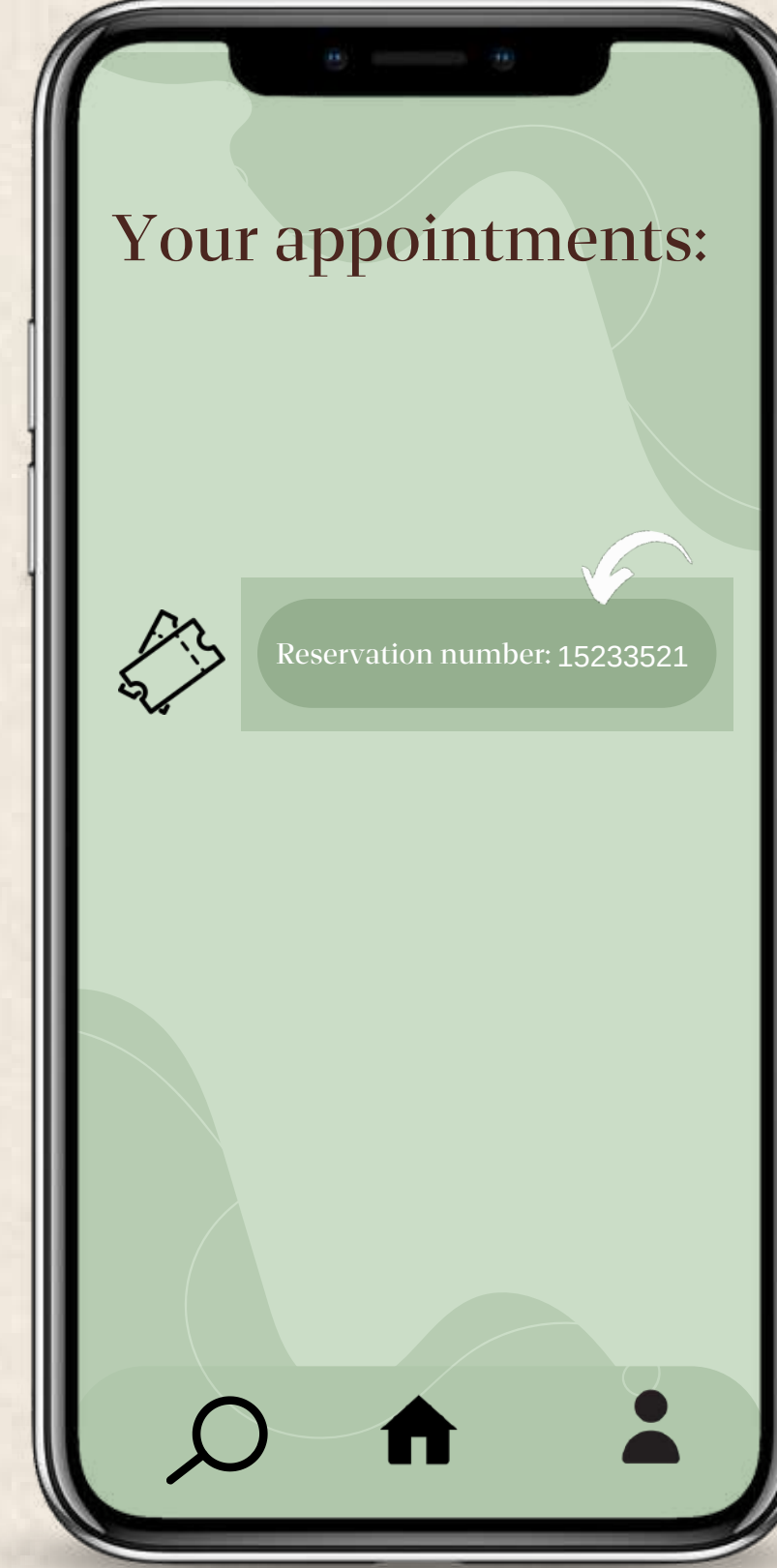
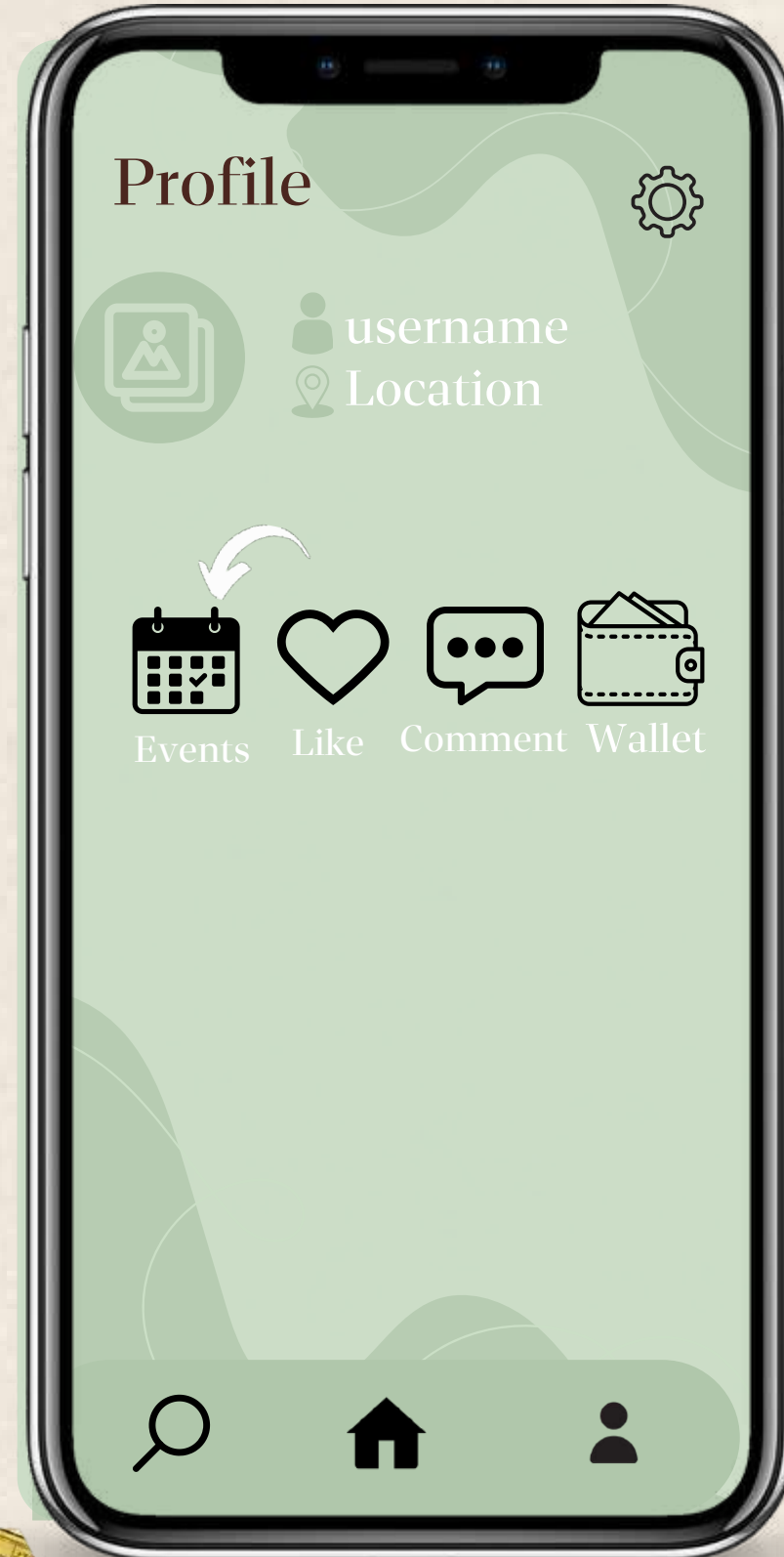


# Prototype:





# Prototype:





Prototype:

على وين؟



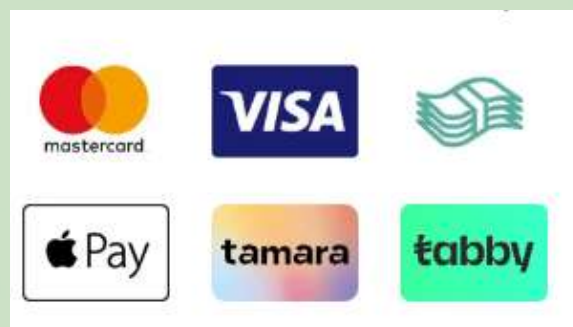
Sent successfully





# Prototype:

**reservation  
confirmation**



**Payment**

**cancel  
of reservation**

**Your reservation has  
been confirmed  
successfully**



**The reservation has  
been canceled and the  
money has been  
added to the wallet**





# Prototype:

على وين؟



How was your  
experience with the  
application?





Prototype:

على وين؟



How was your  
experience with the  
application?





Prototype:

على وين؟



Thank you, the review  
has been sent  
successfully





Thank  
you very  
much!