

# Eudermi

YOUR GUIDE FOR GLOWY SKIN

---

**PREPARED FOR :**

DR.AREEJ ALFRAIH  
SOFTWARE ENGINEERING

# Team members



Khadija Alajmi "leader"  
443005840



Lujain Alhebshi  
443011980



Aseel Sultan Alsaedi  
443002014



Atyaf Mussad Almatrifi  
443000655



Shatha Eidhah Almalki  
443005857



Noura Abdullah Alharbi  
443010299

# Contents

- 03. software idea
- 04. Functional requairment
- 12. Non-functional requairment
- 15. DFD 0
- 16. DFD 1
- 17. DFD 2
- 25. Use Case
- 26. scenario
- 35. Activity diagram
- 42. Class Diagram
- 43. Sequence diagram
- 51. prototaype



# Software Idea

The idea of our project is about a store that sells personal care products inspired by two continents are East Asia and North Africa and makes cream with ingredients of the customer's choice. The name of our store is Eudermi. It is derived from the Greek words "eu," meaning "good," and "dermi," meaning "skin." Therefore, the name Eudermi conveys the idea of well-balanced skin.

# chapter 2

# Sign-up

User requirements:

1. The user shall be able to create a new account

System requirements :

1.1 The system shall display a new page to register with certain fields ( first name, last name, email, phone number, password, and password confirmation).

1.2 The system shall check The validation of entered data  
\*email and phone number if there's a matching in the database ( email and phone number have to be unique for every user ).

1.3 The system shall display a pop-up page for the phone number verification code

1.4 The system shall match the entered Cade by the one that was sent if it matches the phone number will be stored successfully in the database

# Login

## User requirements:

2- The user shall be able to log in to the account

## System requirements :

2.1 The system shall display a login page with an email and password field

2.2 The system shall check if the password matching with the password stored in the database if it's true, the user will continue to the main page, otherwise The system will generate an error message and ask to re-enter the password or choose "forget password "

2.3 if the user chooses " forget password " The system shall move to restart the page and send the code after the user enters The required data (phone number and email)

2.4 The system shall match the entered Cade by the one that was sent if it matches the phone number will be stored successfully in the database

# customize cream

## User requirements:

3. The user shall be able to choose two to five ingredients to produce his cream.

## System requirements :

3.1-The system shall be able to display three choices to specify the quantities:

- First choice 150g.
- Second choice 200g.
- Third choice 300g.

3.2- The system shall be able to check the user's choice if the user chooses one of the choices the system will store this data temporary and then go to the next step but if he doesn't the system will appear this message (please choose one of the quantities to make your cream.)

3.3- The system shall be able to display two lists. The first one holds different kinds of preservatives and the second one contains different kinds of vitamins, essential oils and perfumes, and Extracts.

3.4- The system shall be able to check the user choice if the user chooses one of the preservatives and one or two three or four of the ingredients the system will store this data and then go to the next step but if he doesn't the system will appear this massage (please choose one of the preservatives to make your cream.)

3.5- The system shall be able to make some calculations to calculate the amount of ingredients and then estimate the cost of cream

3.6- The system shall automatically generate a receipt and report for the customer.

---

## Get a consultation from experts

User requirements:

4.The user shall choose experts based on their specific needs

System requirements :

4.1-The system shall be able to have a button on the home page named “Chat with our experts!” to show our experts (there are 4 experts).

4.2-The system shall enable customers to choose and select experts this includes filters such as expertise and availability.

4.3-The system shall be able to implement a scheduling system that allows users to book consultation sessions with their chosen experts. Provide options for selecting session duration, preferred date, and time.

4.4- The system shall provide a chat between users and experts to communicate.

## Products

User requirements:

5-The user shall be able add it to the cart

System requirements :

5.1-The system shall have a button on the home page named “products”

5.2-The system allowed the customer to select specific products and quantities

5.3-The system shows for customer a photo of a sample with each product

5.4-The system appears under each product for ratings

5.5-The system shows instructions and descriptions of the products under each product

# Order

User requirements:

6- The user can place an order

System requirements :

6.1-The system shall display a summary of the user's product customization choices, including selected products, and quantities, and apply a coupon.

6.2-The system shall have a button named "checkout shipped item" complete customer order

6.3-The system appears shipping address field

# Payment

User requirements:

7- The user can complete the order

System requirements :

7.1-The system shall provide a menu of different payment methods to choose.

7.2-If the user choose to pay by card , the system shall provide a fields to let the user fill his card's information

7.3-The system Provides a confirmation message to inform users that their order has been successfully placed.

## Contact us

User requirements:

8-The user shall be able to contact us via phone or social media applications.

System requirements :

8.1-display contact box at the end of the home page if the user has complaints (insert text, file, image), ,The system shall receive calling times from 9 am-3 pm.If the call is outside working hours

8.2-the system will provide links for WhatsApp communication and social media accounts below the phone number.

# Non-Fanctional

## 1. Useability:

The software should have a user-friendly interface that is easy to navigate and understand. The user will take around 15 min learning how to use the website

## 2. Space Efficiency:

The software should be designed to utilize system resources efficiently, minimizing its memory footprint and storage requirements . A target measurement could be to limit the software's memory usage to less than 200MB and storage requirements to less than 1GB.

# Non-Functional

## 3. Speed:

The software should be responsive and perform tasks quickly. It should be designed to handle a large volume of data efficiently, ensuring fast loading times, search operations, and data processing.

A response time of less than 1 second for common operations

## 4. Reliability:

The software should be robust and dependable. It should be able to handle various scenarios and inputs without errors or crashes. It should have a backup copy to recovery within one hour.

# Non-Functional

## 5. Security:

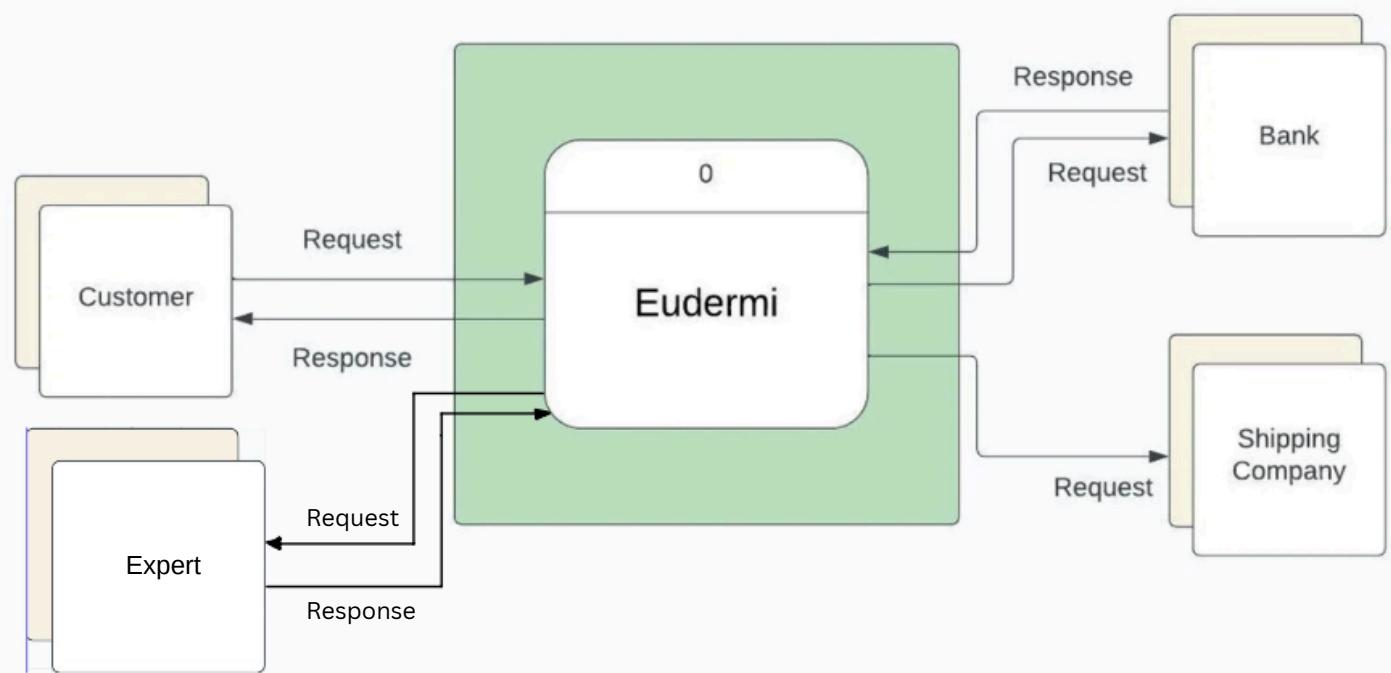
The software should incorporate measures to protect sensitive customer information, such as personal details and payment data.

It should have mechanisms for secure user authentication, data encryption, and secure transmission of data using SSL.

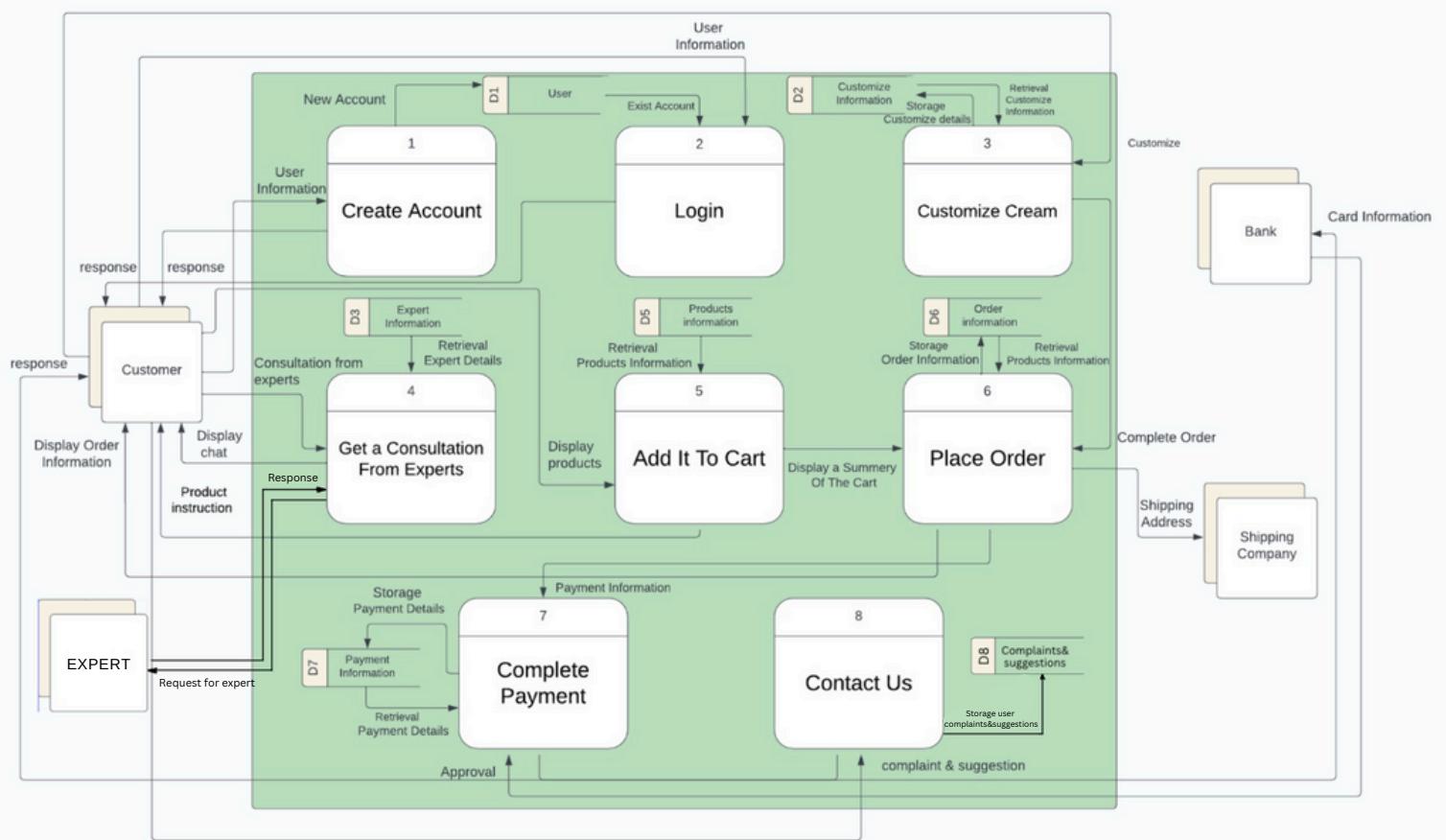
## 6. Performance:

The software should deliver high-performance levels, ensuring fast response times and minimal latency. It should be able to handle concurrent user requests and maintain consistent performance under varying load conditions. The website should process each request within 4 seconds or less 99% of the time

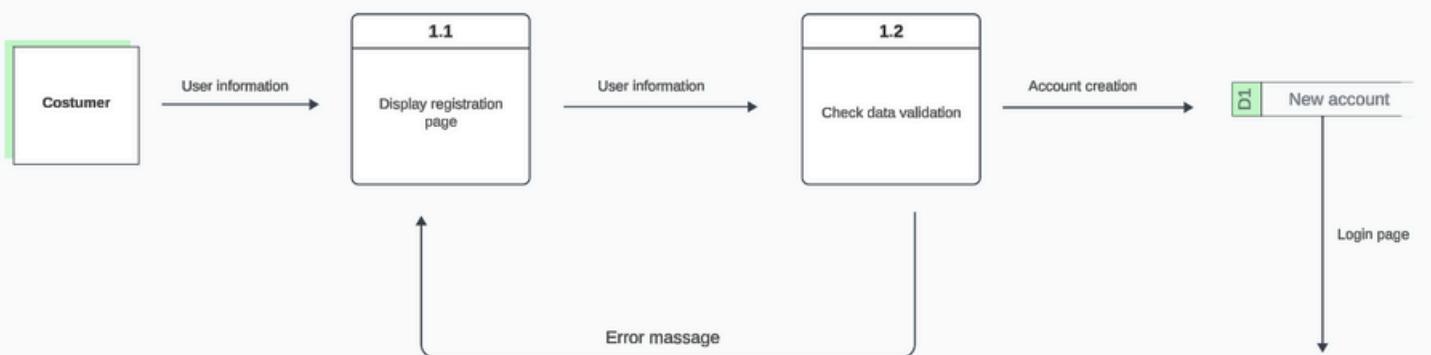
# DFD 0



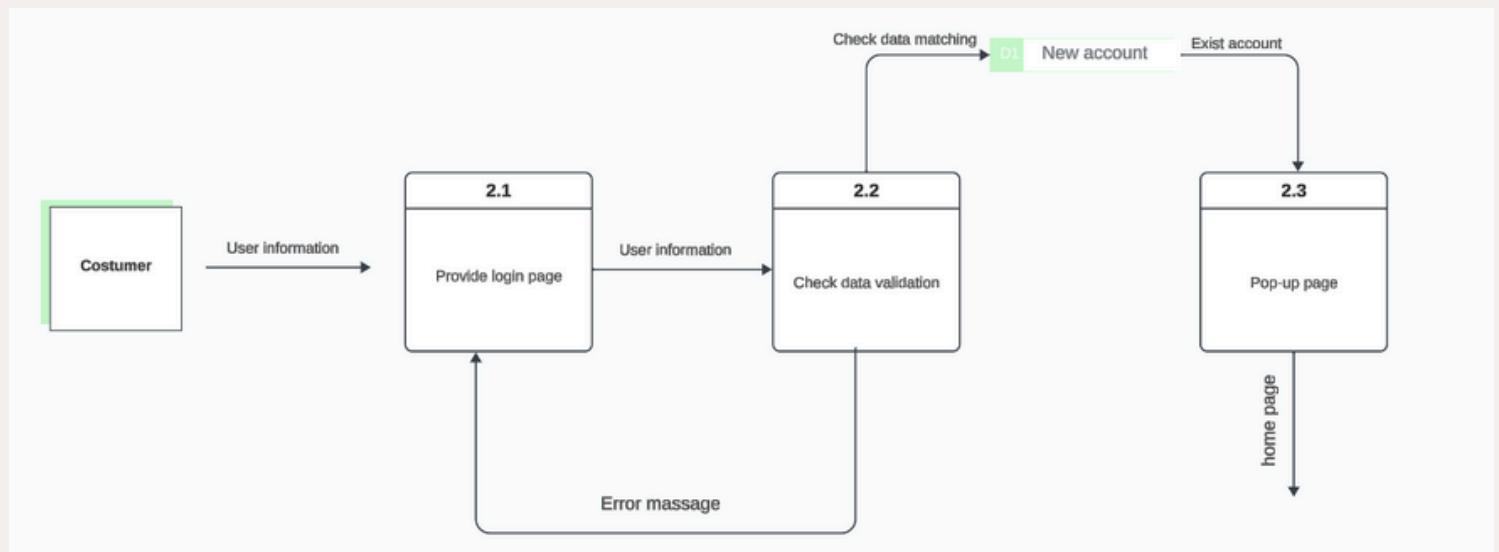
# DFD 1



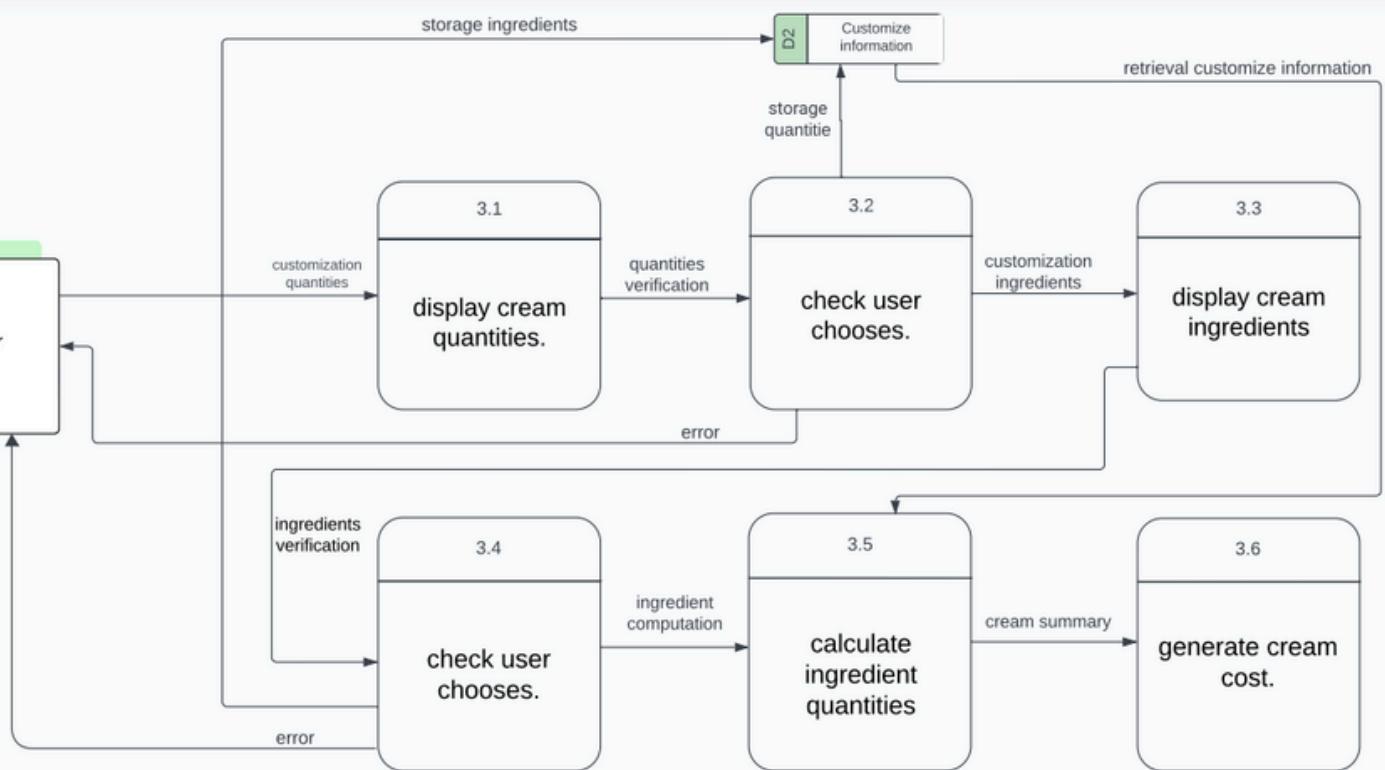
# Sign up child diagram



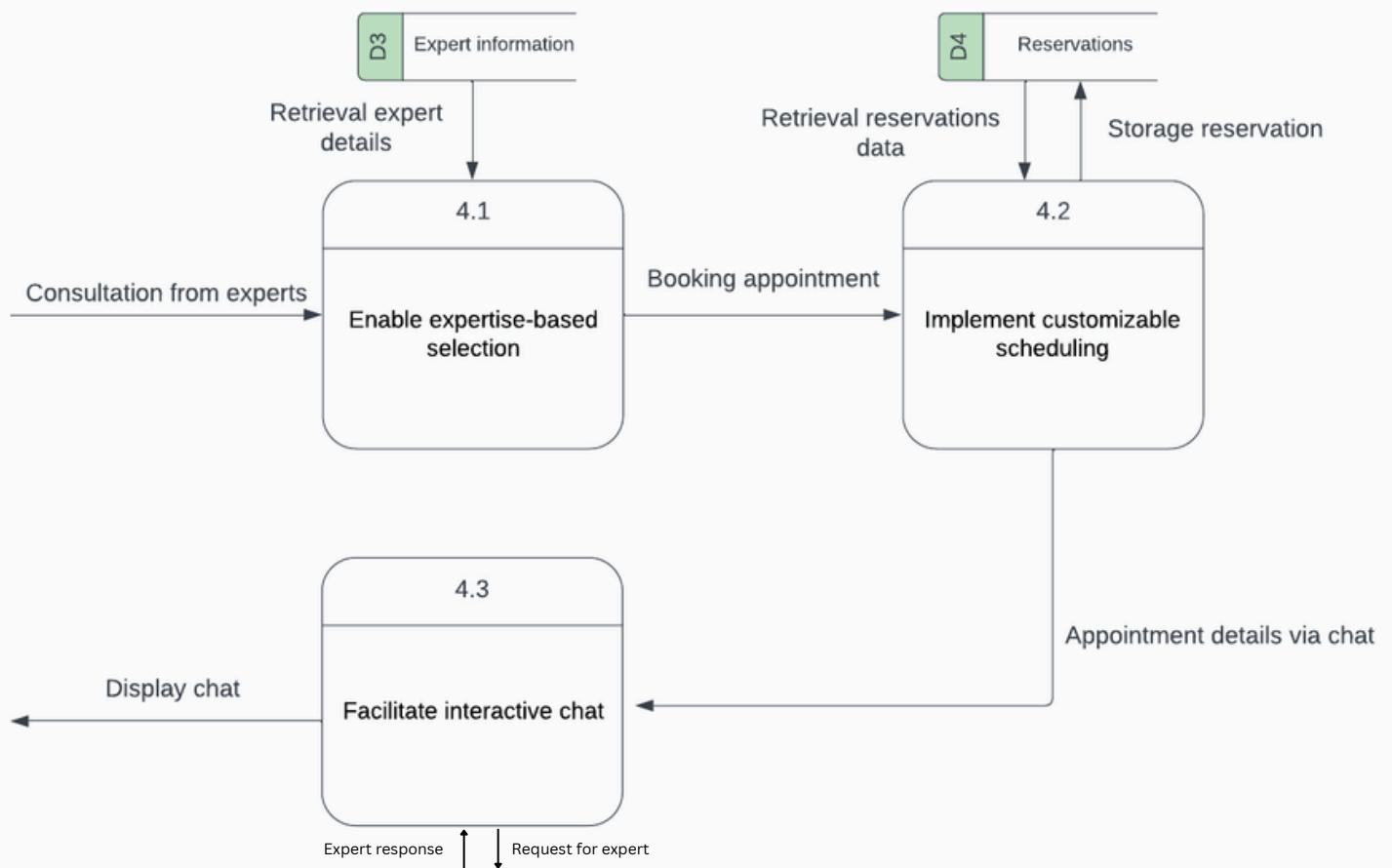
# Login child diagram



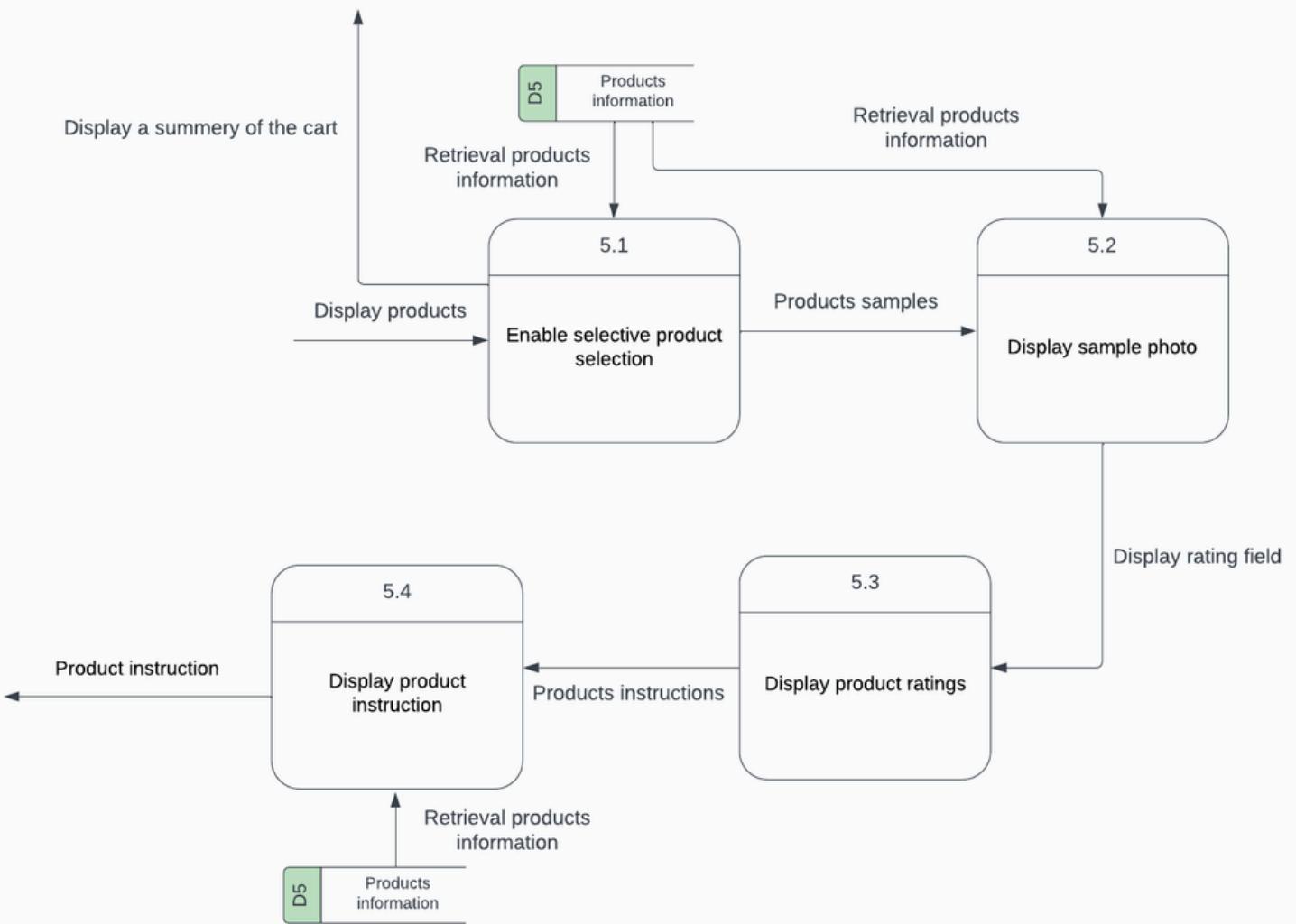
# Customize child diagram



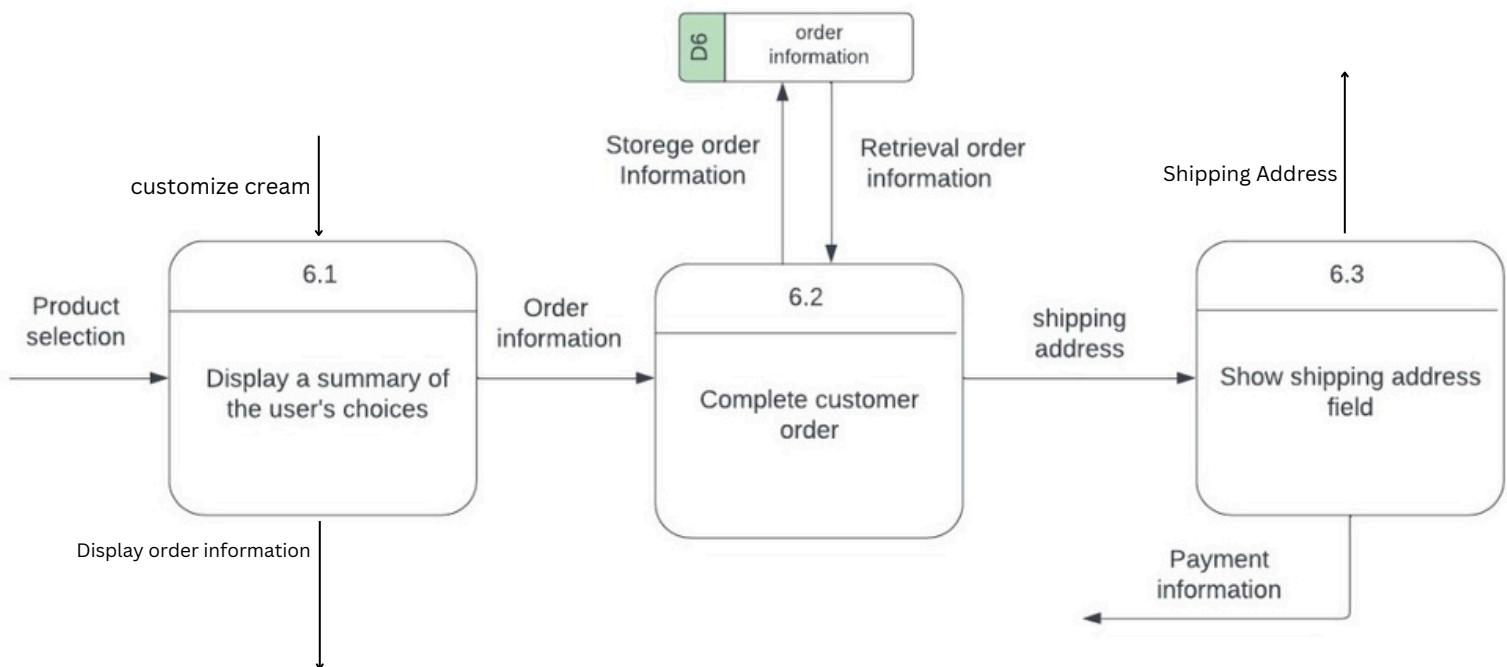
# Consultation from experts child diagram



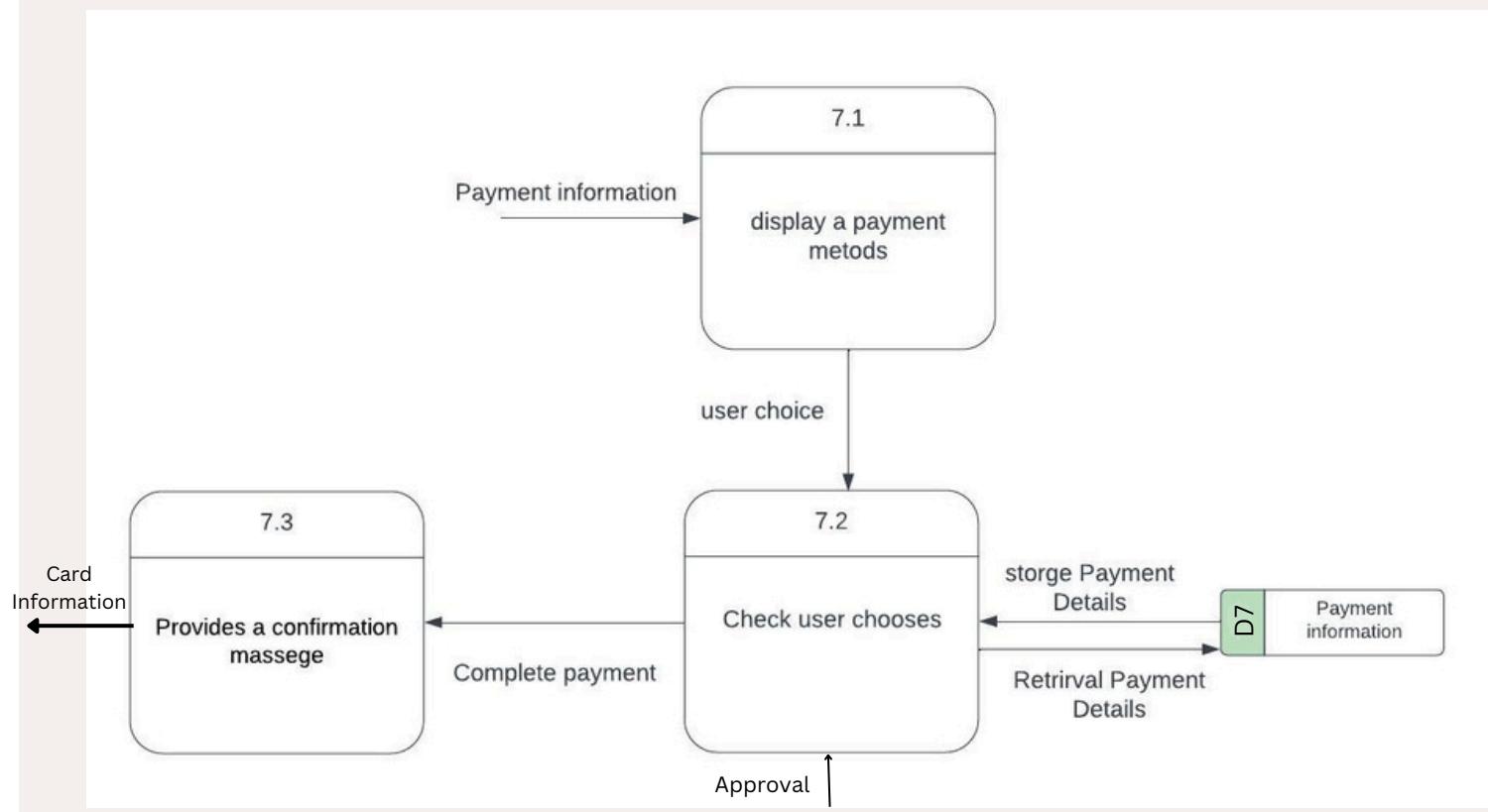
# Products child diagram



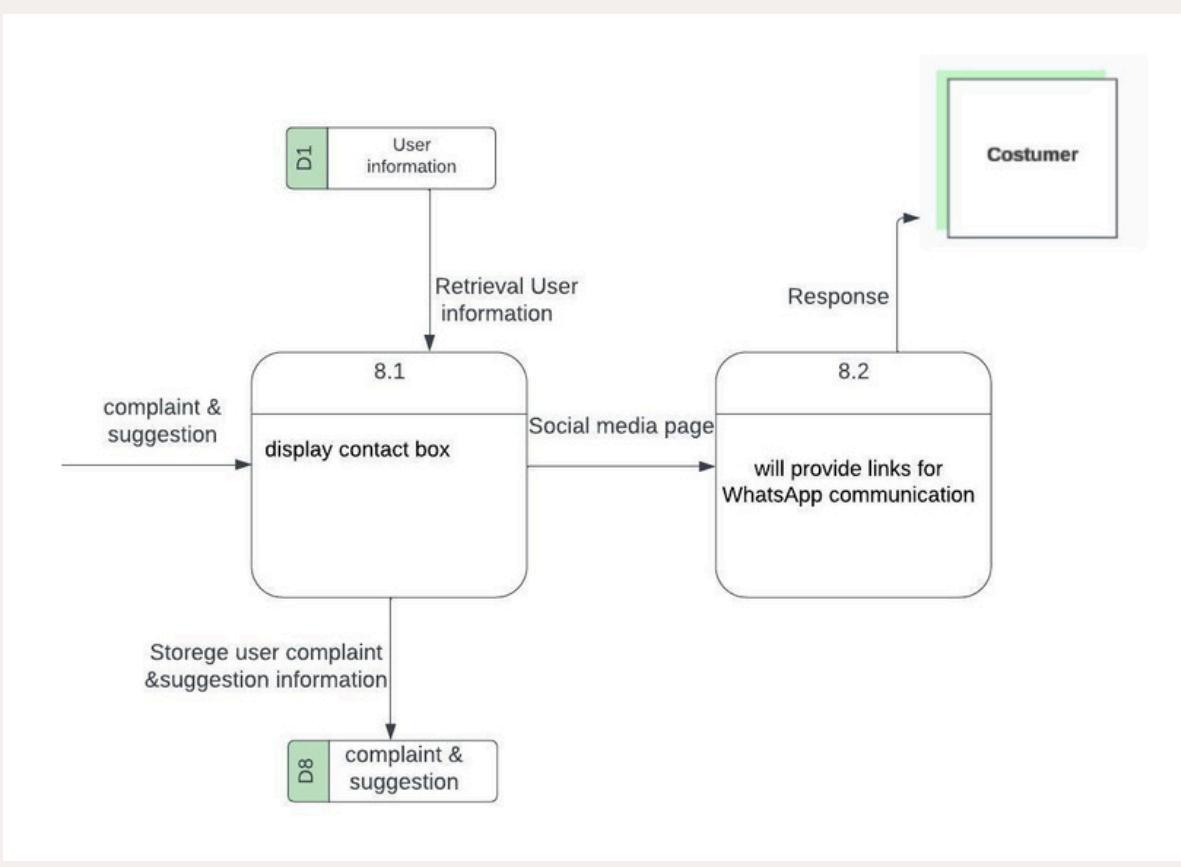
# Order child diagram



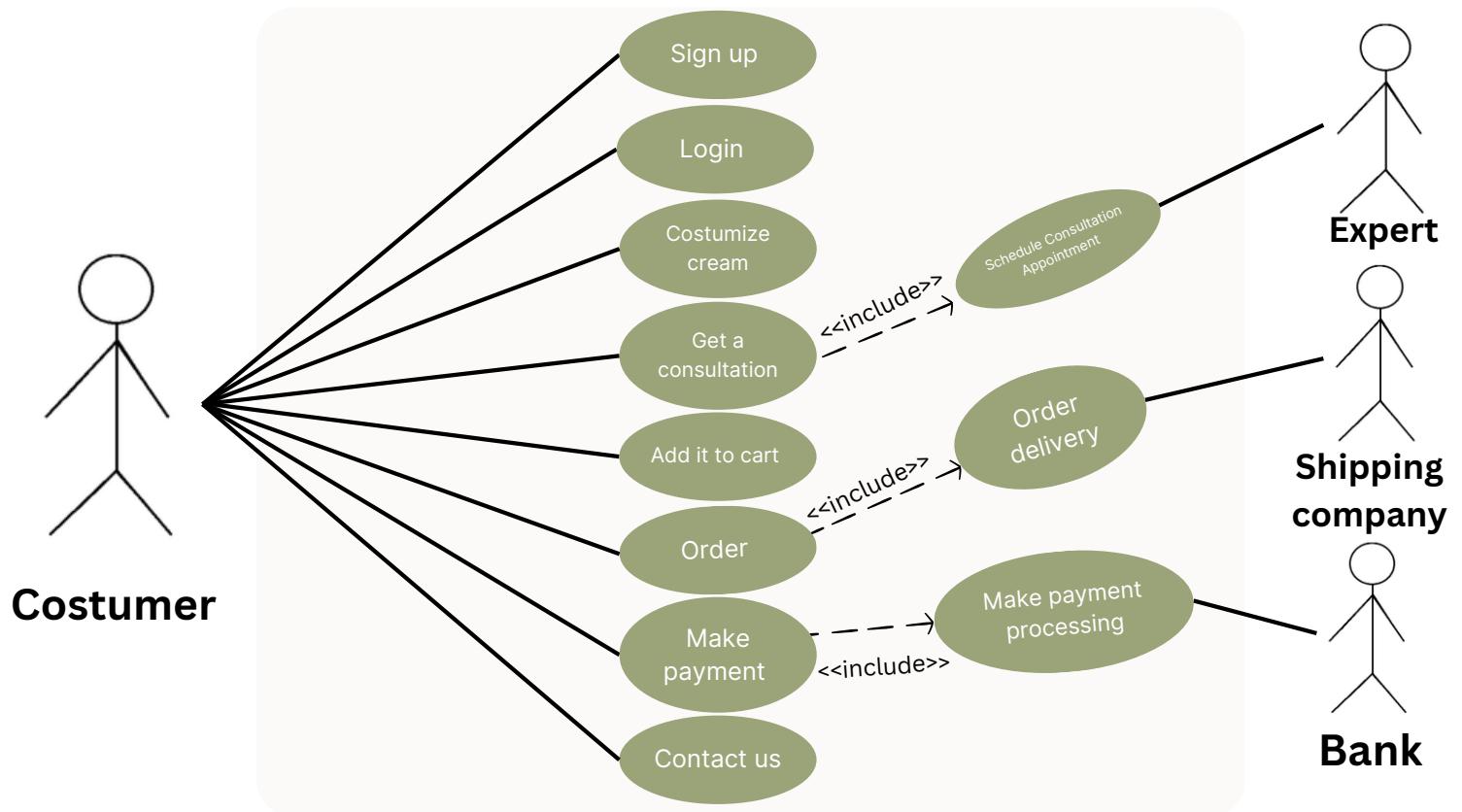
# Payment child diagram



# Contact us child diagram



# Use case diagram



# Sign up scenario

1 Sign up	
Actors	Customer
Description	<ol style="list-style-type: none"><li>1. The system will display the sign-up form to the user, which contains a list of fields (first name, last name, email, confirmation email, password, confirmation password and phone number ) then validate the entered data with these constraints:<ol style="list-style-type: none"><li>2. The email and phone number must be unique.</li><li>3. There is no other record in the database that has the same values.</li></ol></li><li>4. The password should be at least 8 characters with letters in uppercase, lowercase, and at least 1 Special Character.</li><li>5. If the user leaves an empty field an error message will appear.</li><li>6. The system will check if the email or phone is already in the database and then move to the log-in page.</li></ol>
Data	Form fields data: (first name, last name, email, confirmation email, password, confirmation password and phone number ).
Stimulus	User click on " Sign up " button .
Response	Move to " Verification code " page
Comments	-

# Login scenario

.2 Login	
Actors	Customer
Description	<ol style="list-style-type: none"><li>1. The system will display a login form to the user, which contains two fields: (email or phone number, and password).</li><li>2. The email and password must match an existing one by signing up.</li><li>3. If the user leaves an empty field an error message will appear.</li><li>4. If the email and password are valid the user will go to the home page.</li></ol>
Data	User information (email or phone number, password)
Stimulus	User click on " Login " button .
Response	The user will be navigated to the home page.
Comments	If the user forgot the password then move to " Forget password " page that has one field (email or phone number) and sending a verification code.

# Customize cream scenario

3- customize cream	
Actors	Customer, Bank, Shopping company
Description	<p>1-The system shall be able to display three choices to specify the quantities:</p> <ul style="list-style-type: none"><li>• First choice 150g.</li><li>• Second choice 200g.</li><li>• Third choice 300g.</li></ul> <p>2- The system shall be able to check the user's choice if the user chooses one of the choices the system will store this data temporary and then go to the next step but if he doesn't the system will appear this message (please choose one of the quantities to make your cream.)</p> <p>3- The system shall be able to display two lists. The first one holds different kinds of preservatives and the second one contains different kinds of vitamins, essential oils and perfumes, and Extracts.</p> <p>4- The system shall be able to check the user choice if the user chooses one of the preservatives and one or two three or four of the ingredients the system will store this data and then go to the next step but if he doesn't the system will appear this massage (please choose one of the preservatives to make your cream.)</p> <p>5- The system shall be able to make some calculations to calculate the amount of ingredients and then estimate the cost of cream</p> <p>6- The system shall automatically generate a receipt for the customer and report containing the ingredients of cream with the quantities and cost..</p>
Data	Cream ingredients with its quantities.
Stimulus	User click on " complete Customize " button .
Response	Massage that holds pick up date.
Comments	—

# Consultation from experts scenario

4- Consultation from experts	
Actors	Customer
<b>Description</b>	<p>1-The system shall be able to have a button on the home page named "Chat with our experts!" to show our experts (there are 4 experts).</p> <p>2-The system shall enable customers to choose and select experts this includes filters such as expertise and availability.</p> <p>3-The system shall be able to implement a scheduling system that allows users to book consultation sessions with their chosen experts. Provide options for selecting session duration, preferred date, and time.</p> <p>4- The system shall provide a chat between users and experts to communicate.</p>
<b>Data</b>	Choose an expert and select the available date
<b>Stimulus</b>	User click on "complete appointment" button
<b>Response</b>	Message "The session has been booked successfully"
<b>Comments</b>	—

# Products scenario

5- Products	
Actors	Customer
<b>Description</b>	<p>1-The system shall have a button on the home page named “products”</p> <p>2-The system allowed the customer to select specific products and quantities</p> <p>3-The system shows for customer a photo of a sample with each product</p> <p>4-The system appears under each product for ratings</p> <p>5-The system shows instructions and descriptions of the products under each product</p>
<b>Data</b>	select specific products and quantities
<b>Stimulus</b>	User click on “ add it to cart ” button
<b>Response</b>	Message “added successfully”
<b>Comments</b>	—

# Order scenario

6- Order	
Actors	Customer
Description	<p>1-The system shall display a summary of the user's product customization choices, including selected products, and quantities, and apply a coupon.</p> <p>2-The system shall have a button named "checkout shipped item" complete customer order</p> <p>3-The system appears shipping address field</p>
Data	select products and added to the cart
Stimulus	User click on " place order " button .
Response	Massage " Your order is complete! "
Comments	—

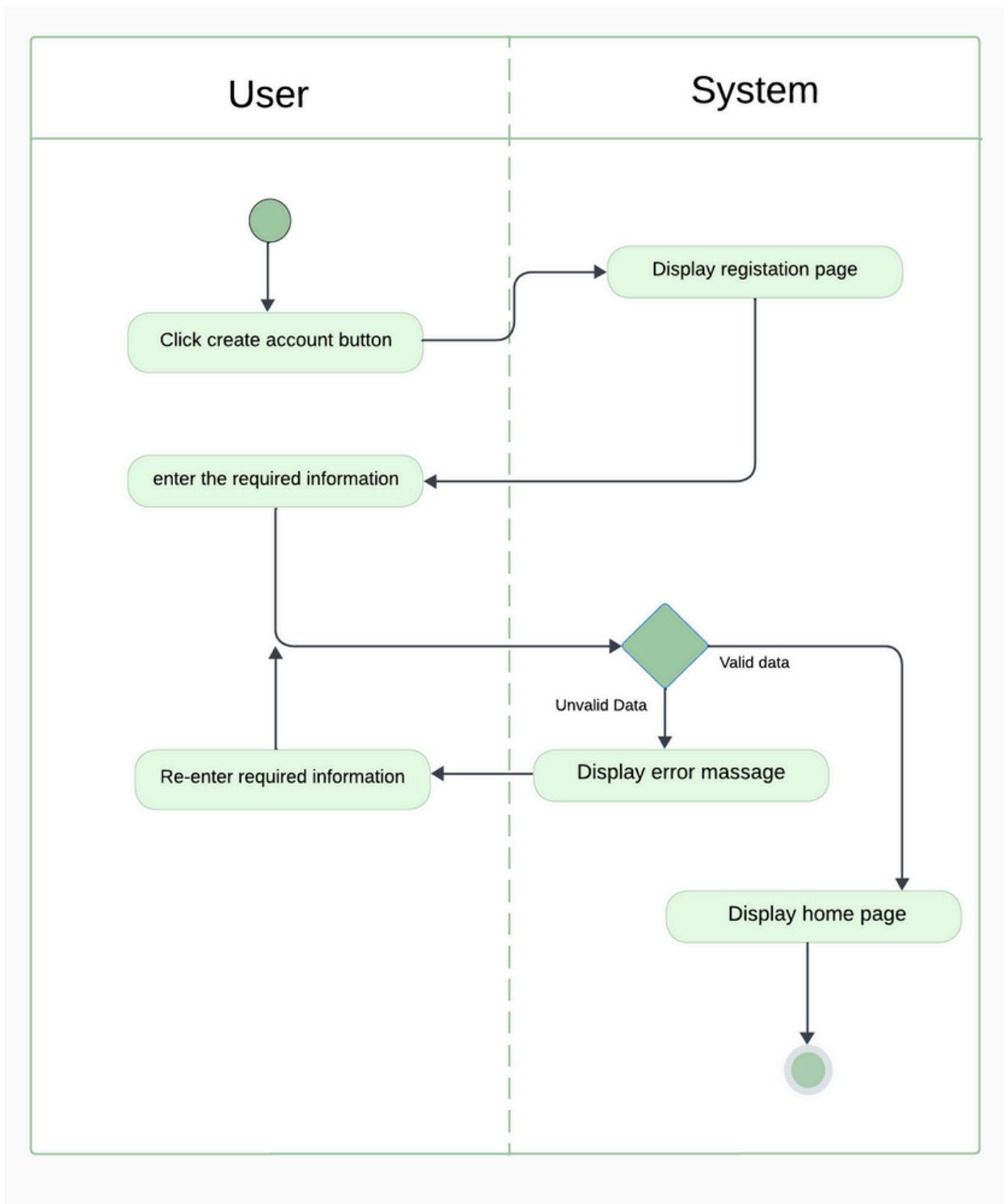
# Payment scenario

7- Payment	
Actors	Customer
<b>Description</b>	1-The system shall provide a menu of different payment methods to choose. 2-if the user chose to pay by card, the system shall provide a fields to let the user fill his card's information. 3- The system Provides a confirmation message to inform users that their order has been successfully placed.
<b>Data</b>	select chose to pay by cash/credit card
<b>Stimulus</b>	User click on " pay now " button .
<b>Response</b>	Massage " The payment was successful "
<b>Comments</b>	—

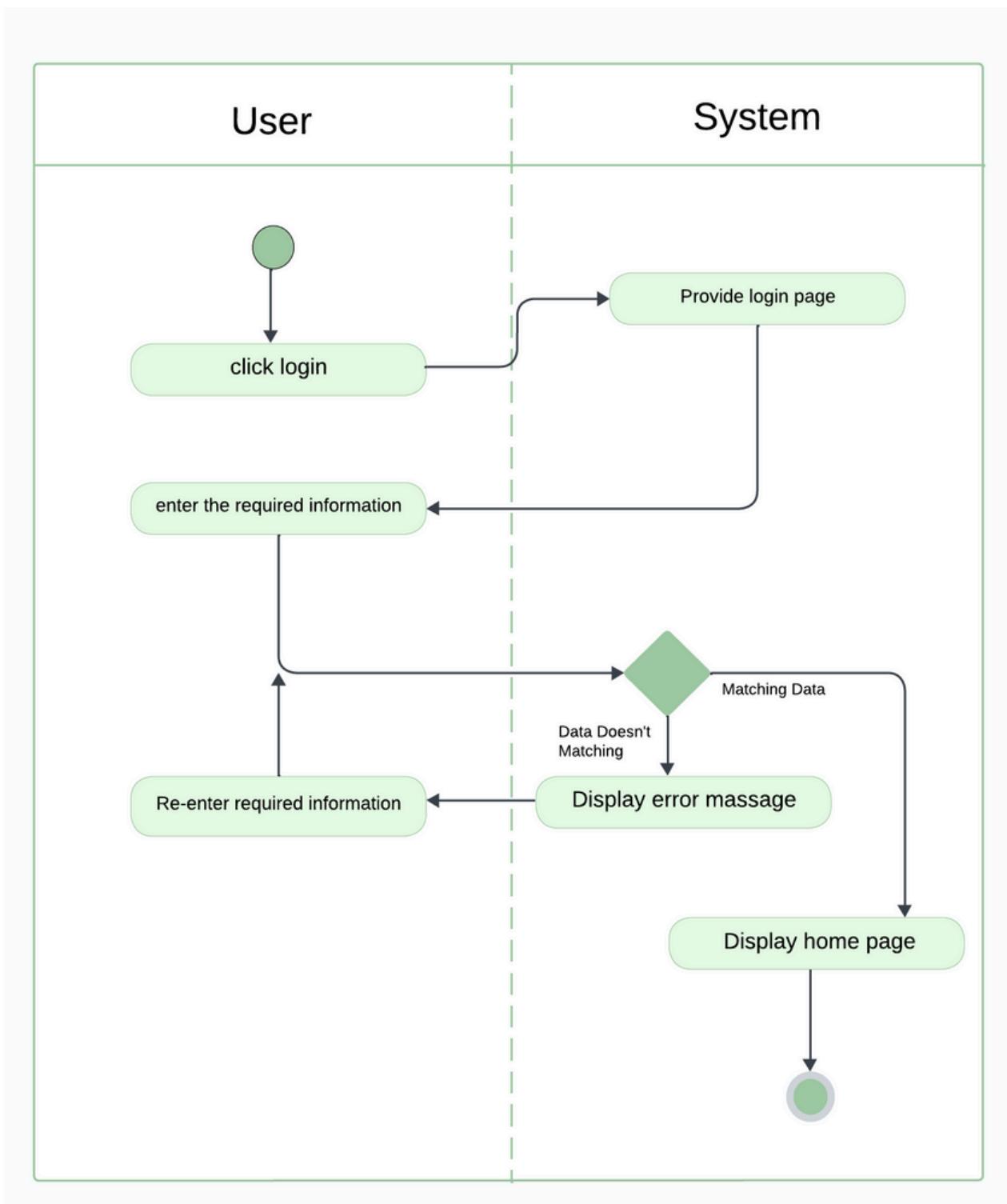
# Contact us scenario

8- Contact us	
Actors	Customer
<b>Description</b>	<p>1-display contact box at the end of the home page if the user has complaints (insert text, file, image), ,The system shall receive calling times from 9 am-3 pm.If the call is outside working hours</p> <p>2-the system will provide links for WhatsApp communication and social media accounts below the phone number.</p>
<b>Data</b>	Storing user information , problem and suggestions
<b>Stimulus</b>	Click on the box at the end of the home page
<b>Response</b>	Massage "Thank your for contacting us and we will respond"
<b>Comments</b>	—

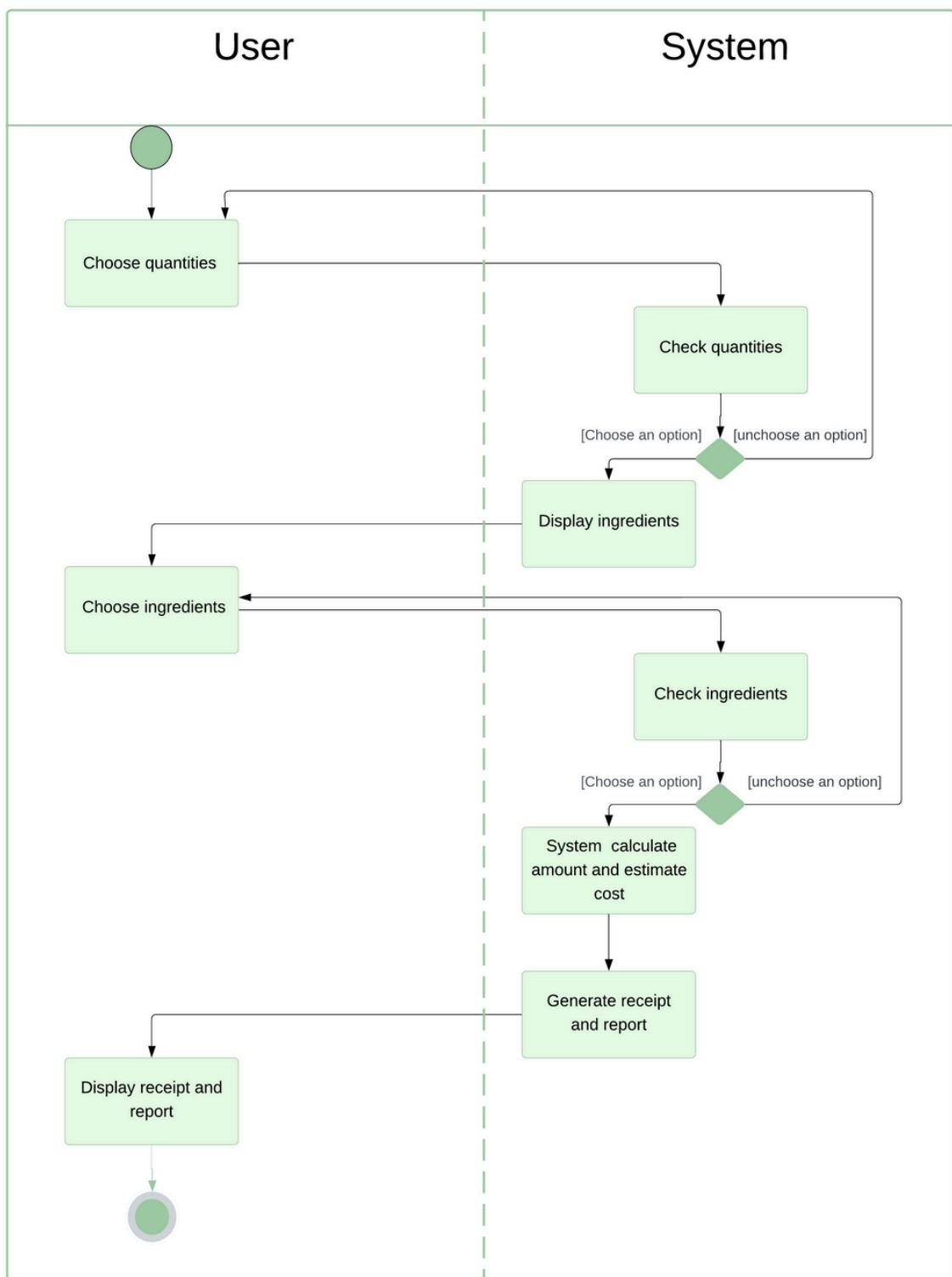
# Activity diagram for Sign-up



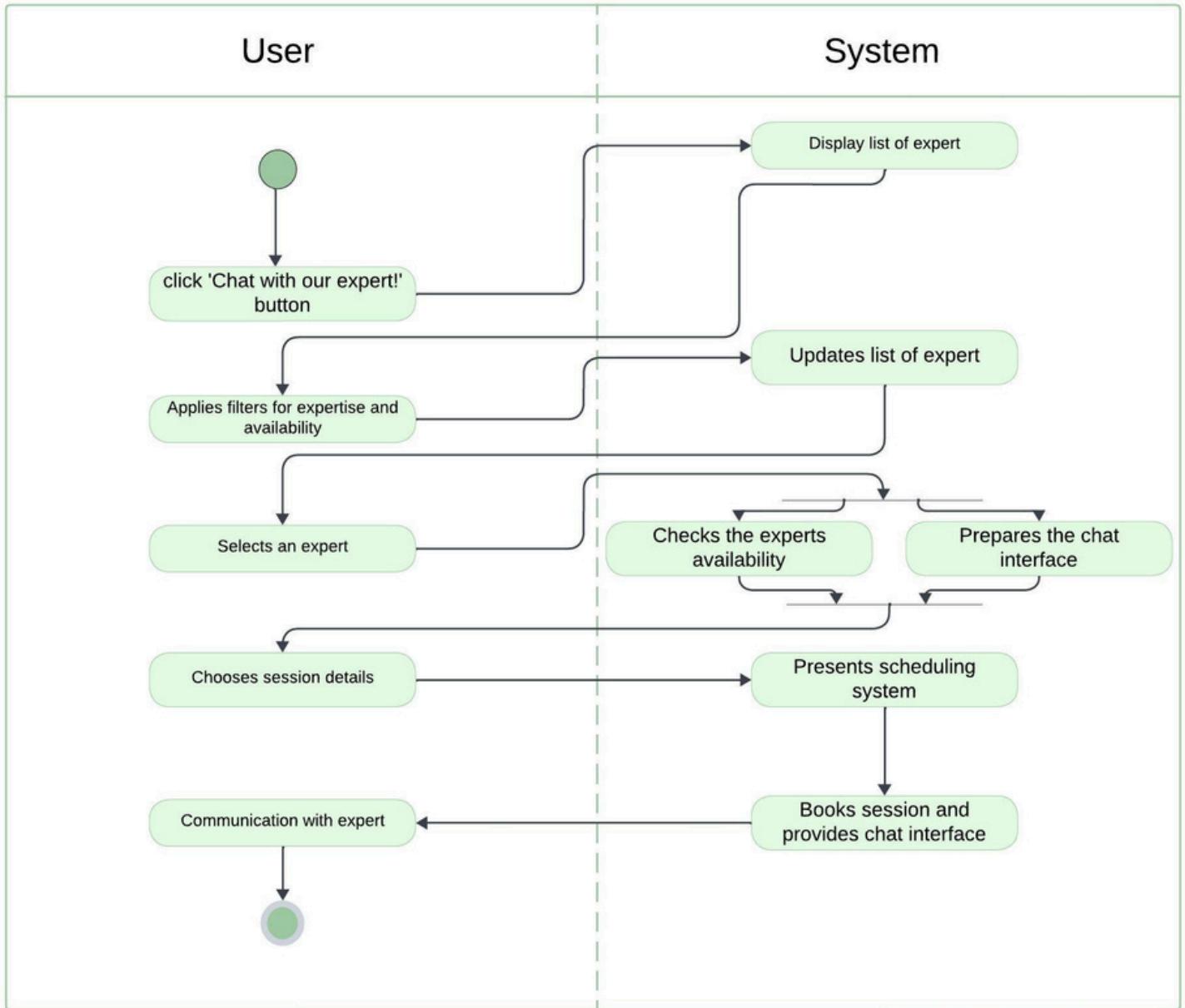
# Activity diagram for Login



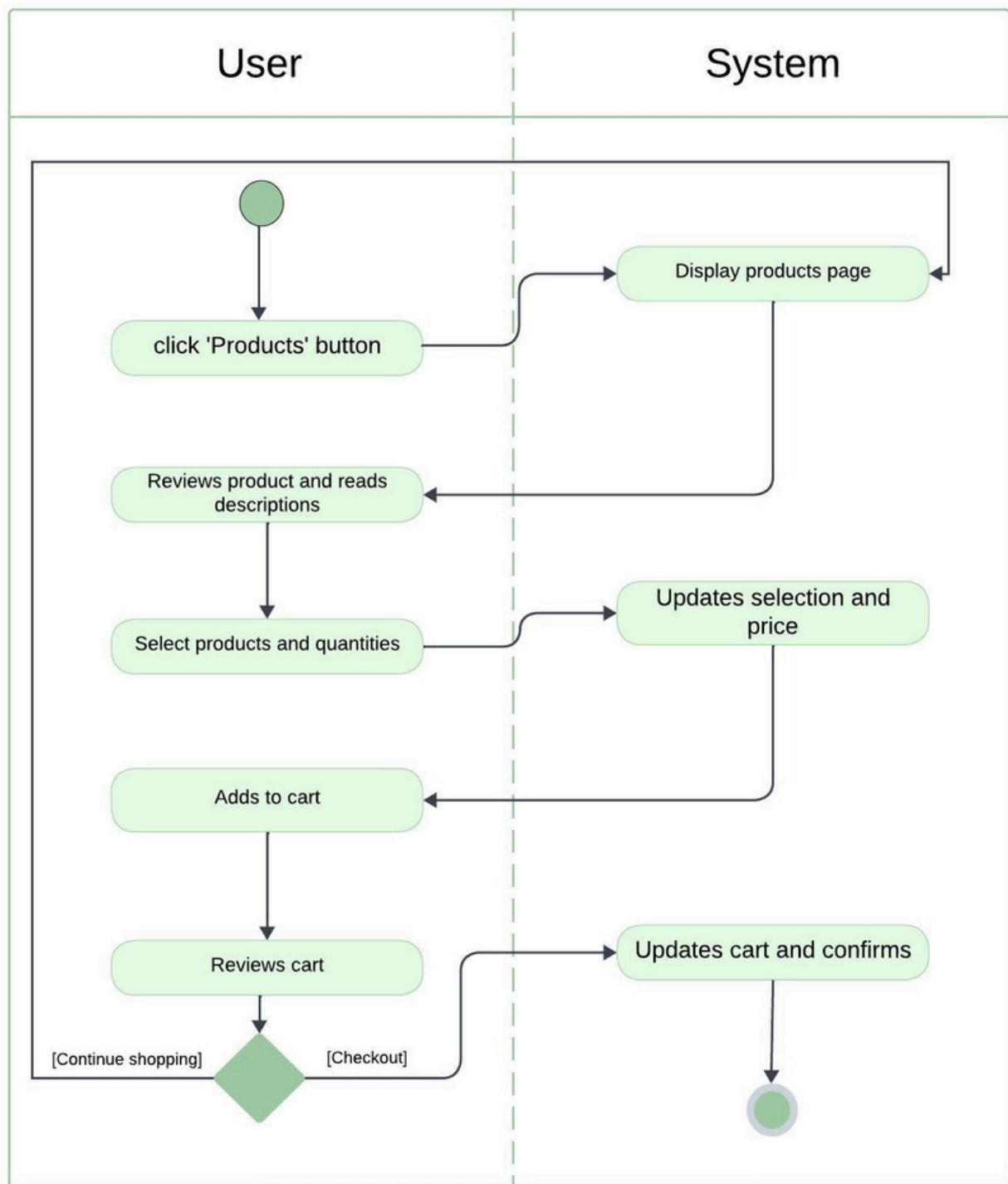
# Activity diagram for Customize cream



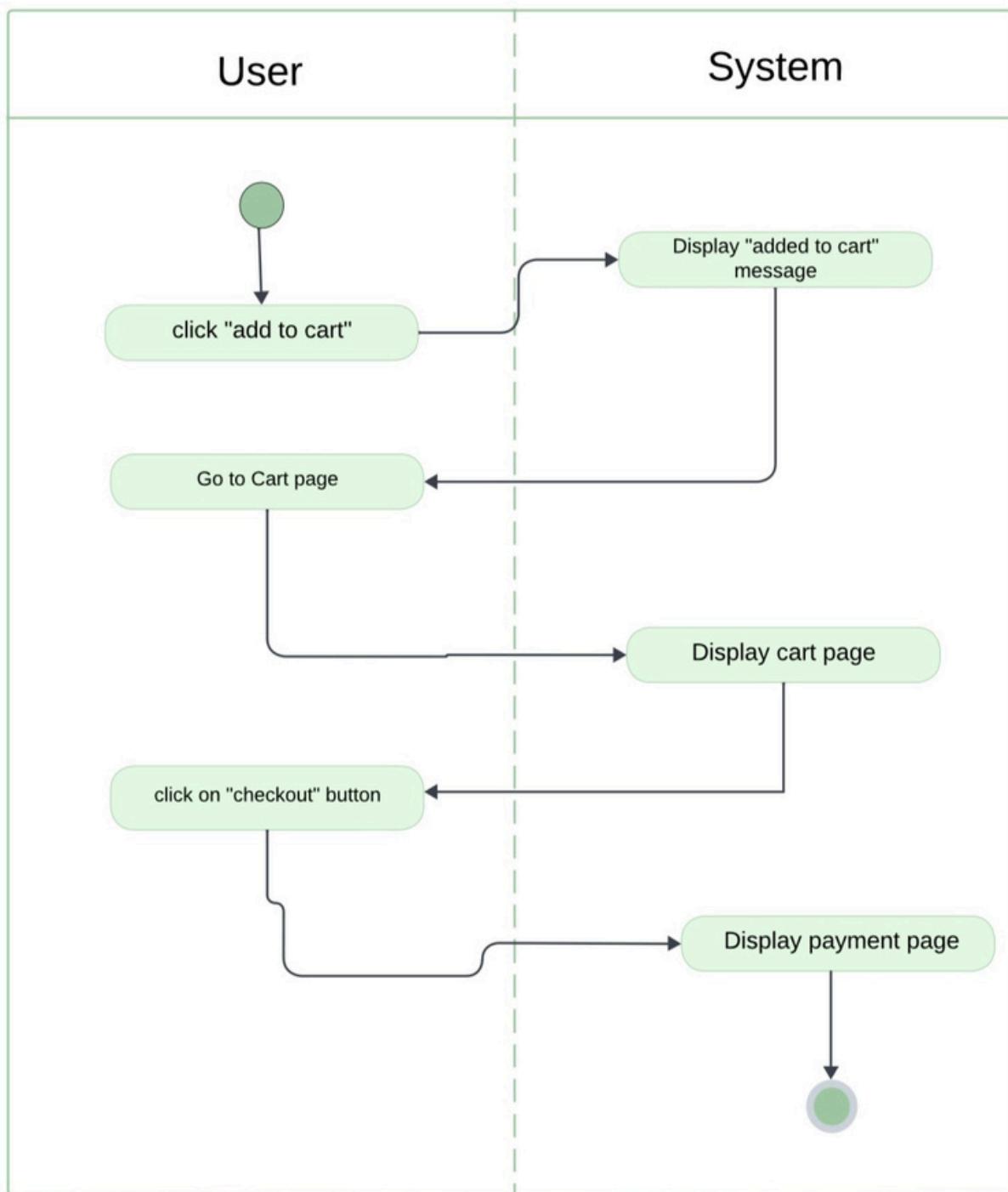
# Activity diagram for Consultation from experts



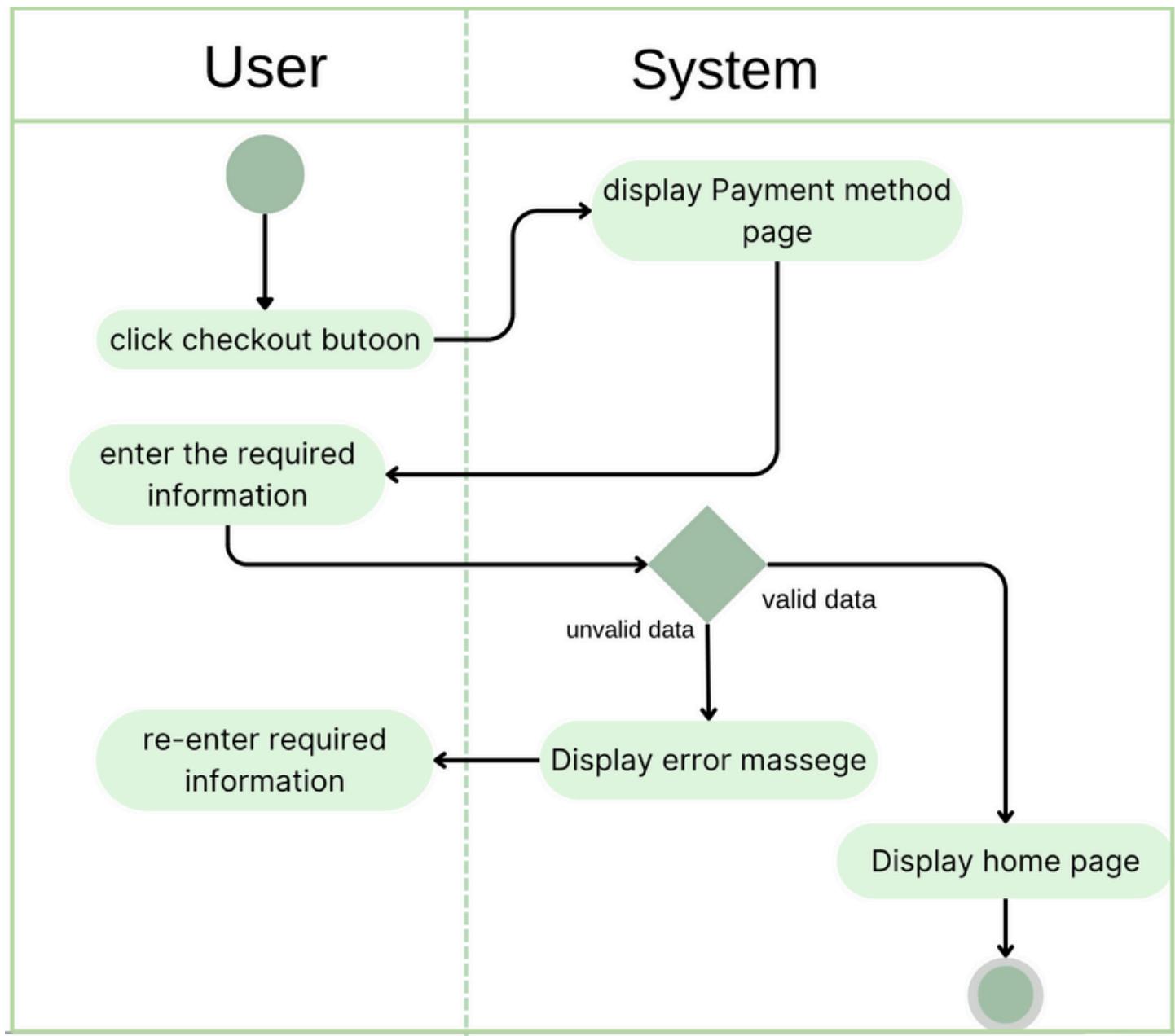
# Activity diagram for Products



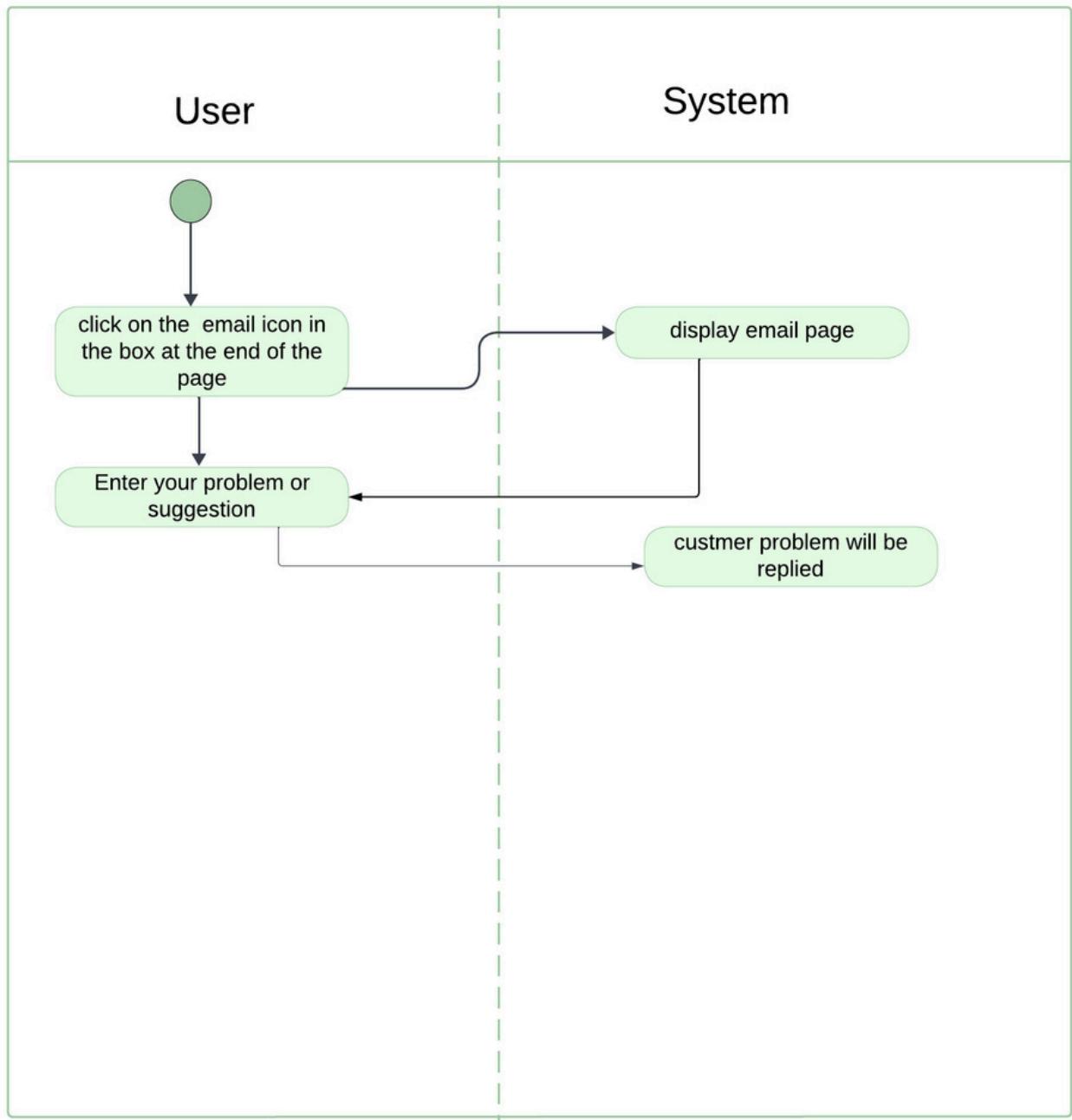
# Activity diagram for Order



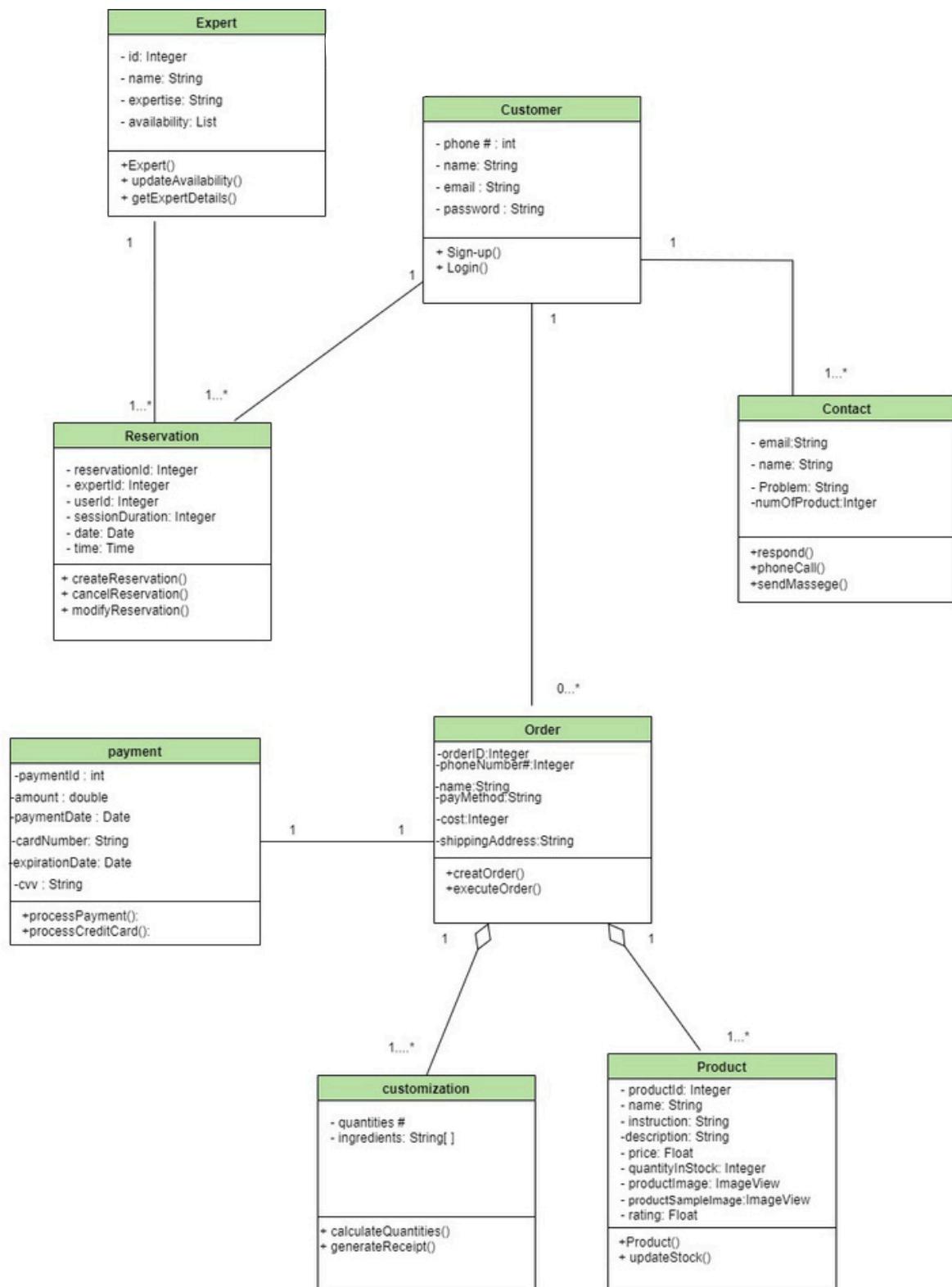
# Activity diagram for Payment



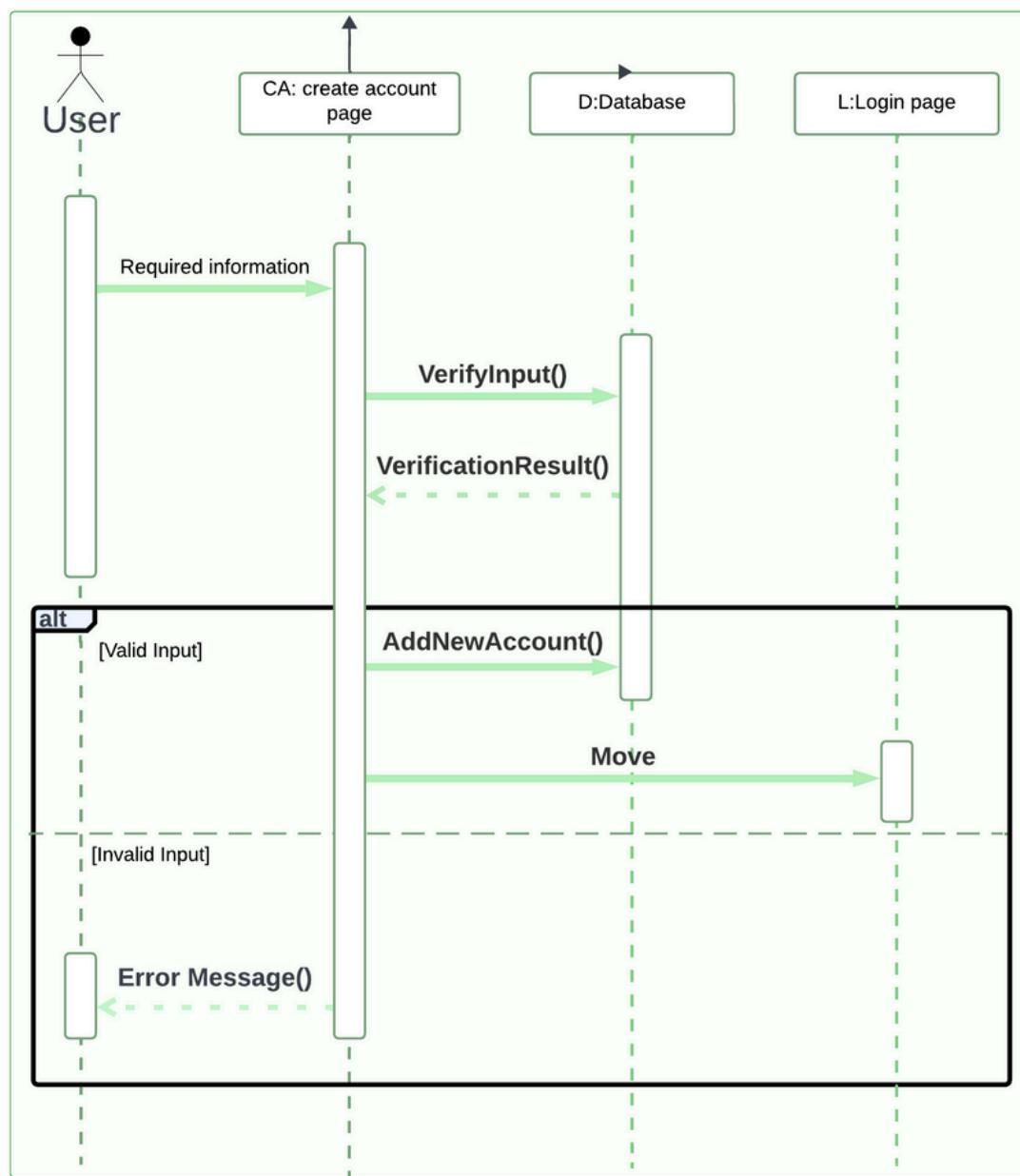
# Activity diagram for Contact Us



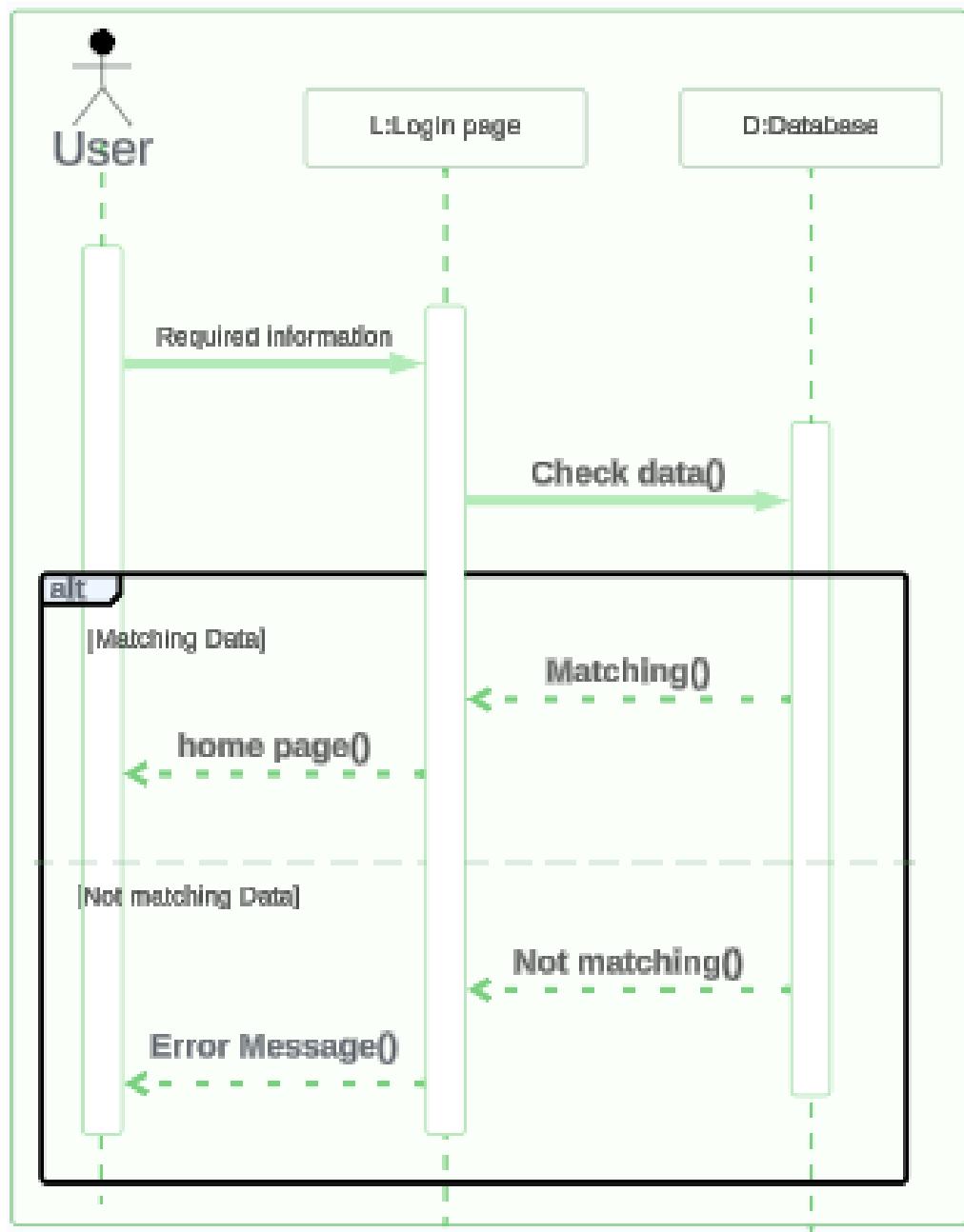
# Class Diagram



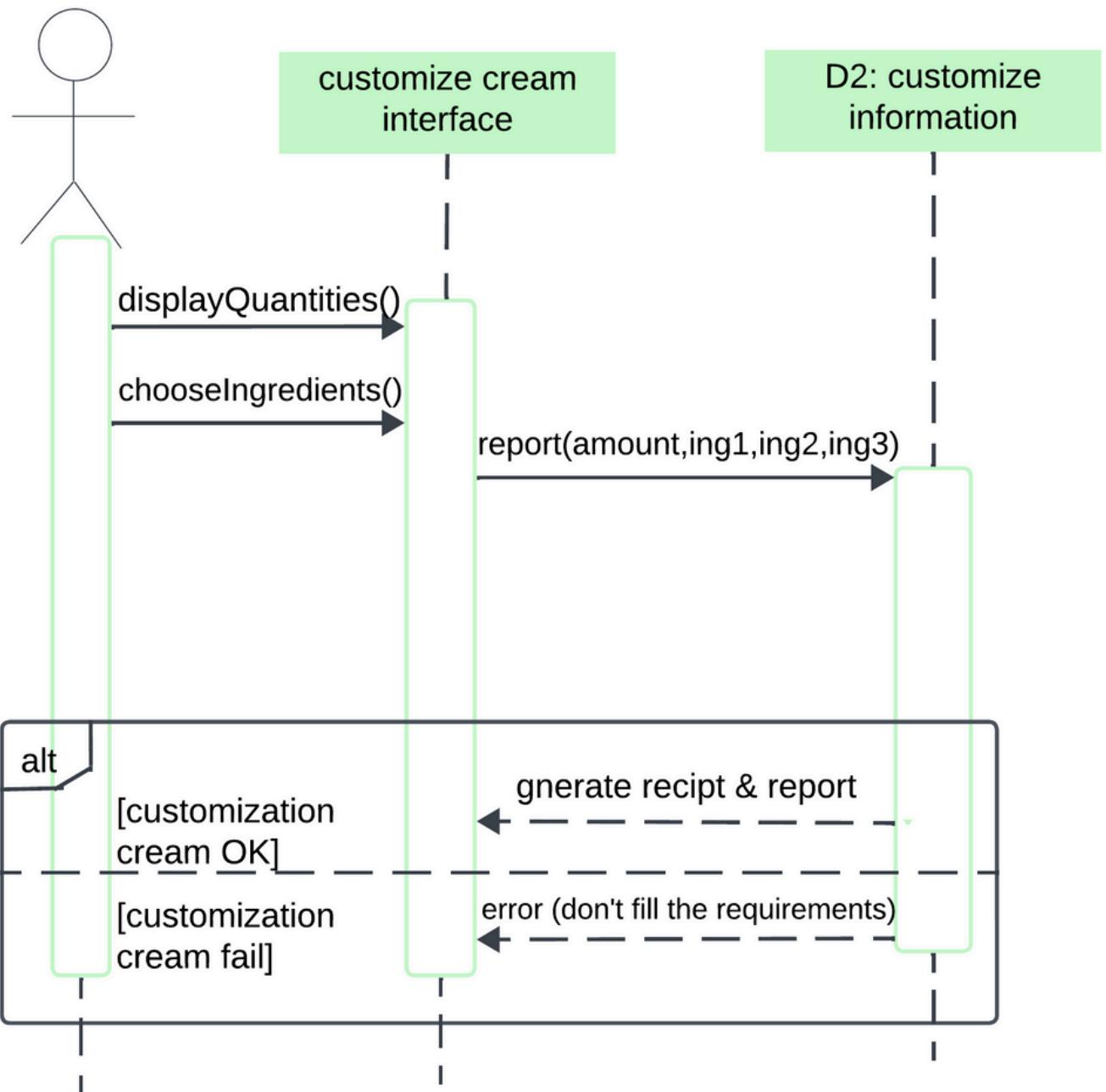
# Sequence diagram for Sign-up



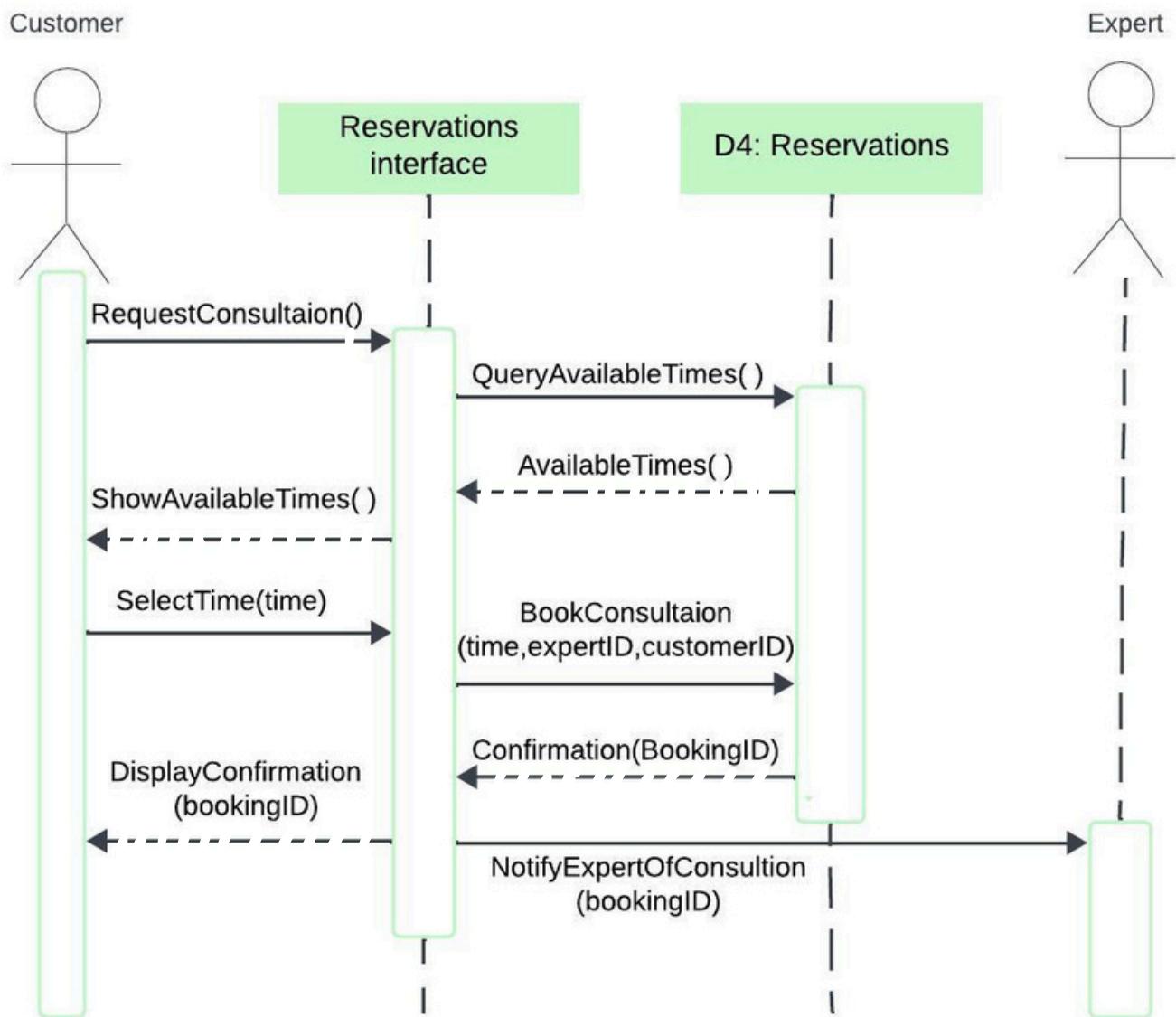
# Sequence diagram for Login



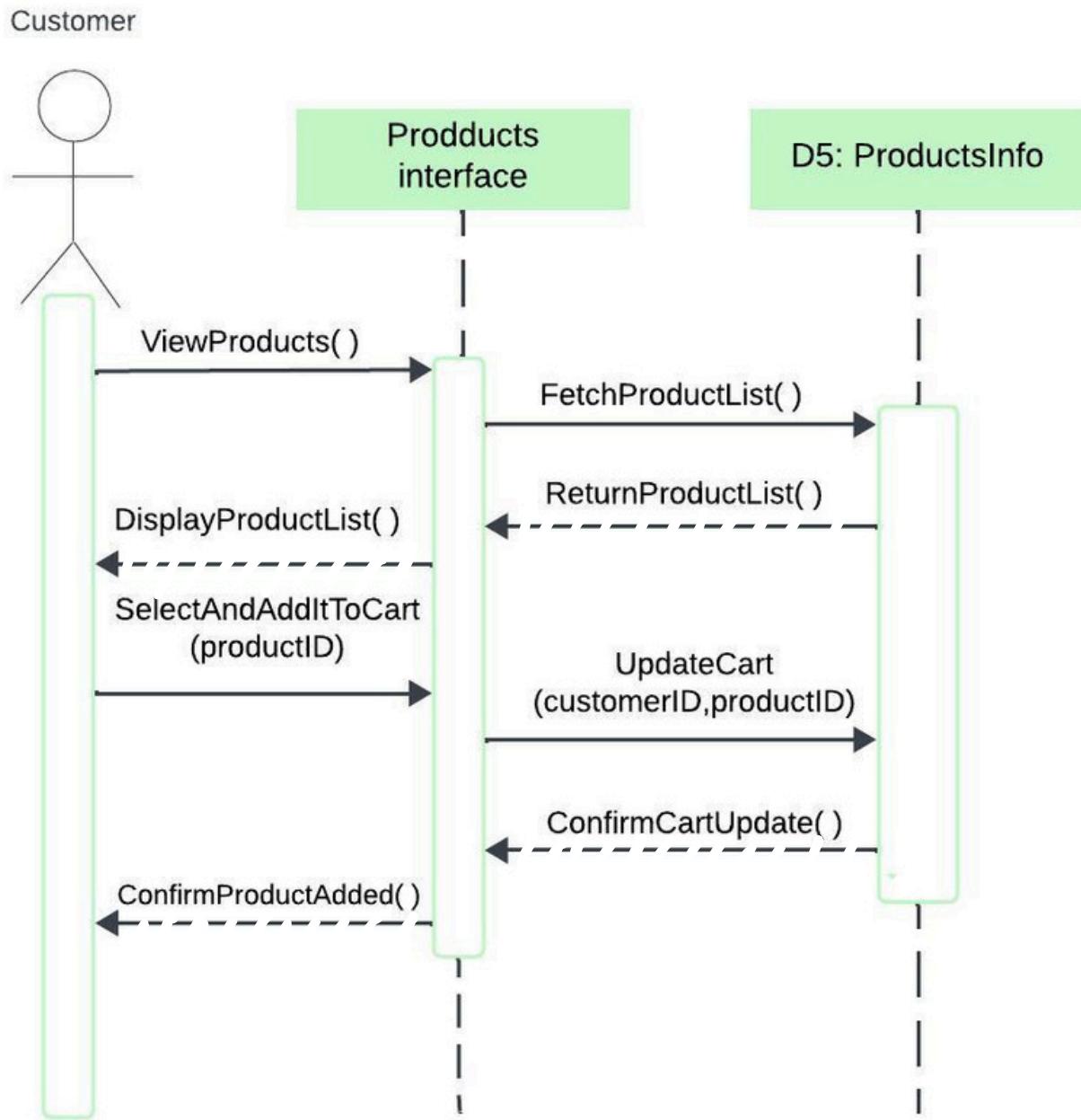
# Sequence diagram for Customize cream



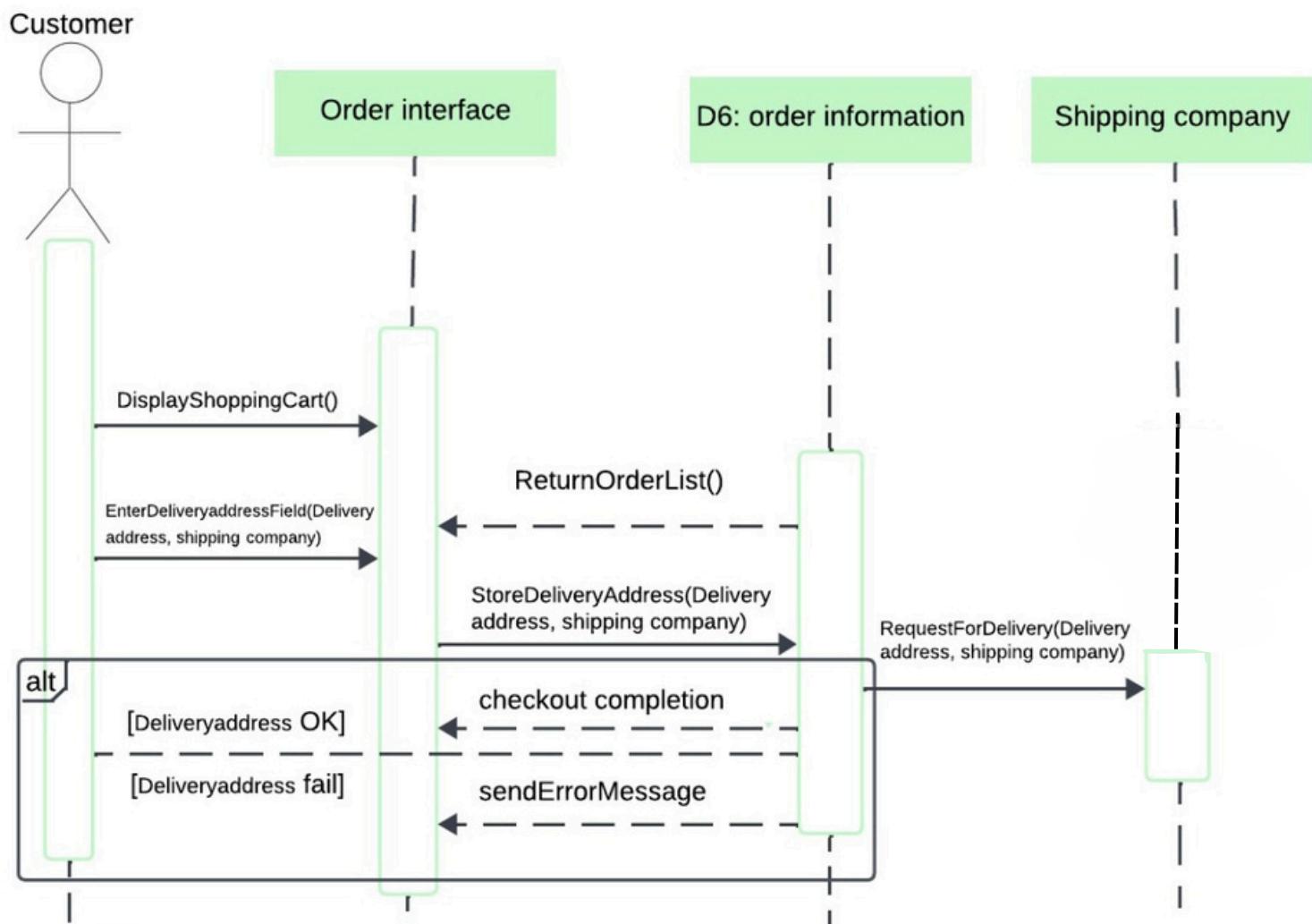
# Sequence diagram for Get Consultation



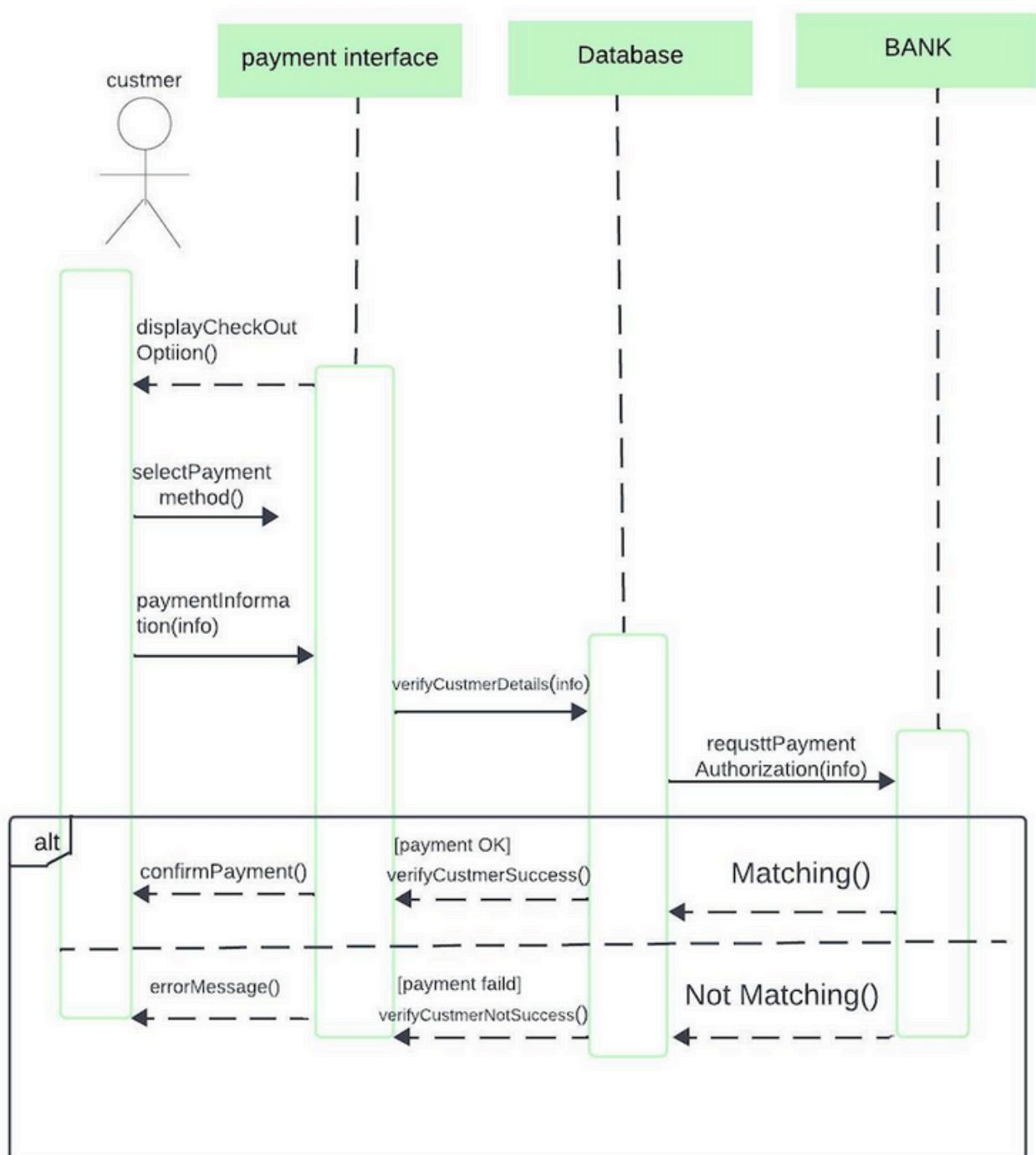
# Sequence diagram for Product



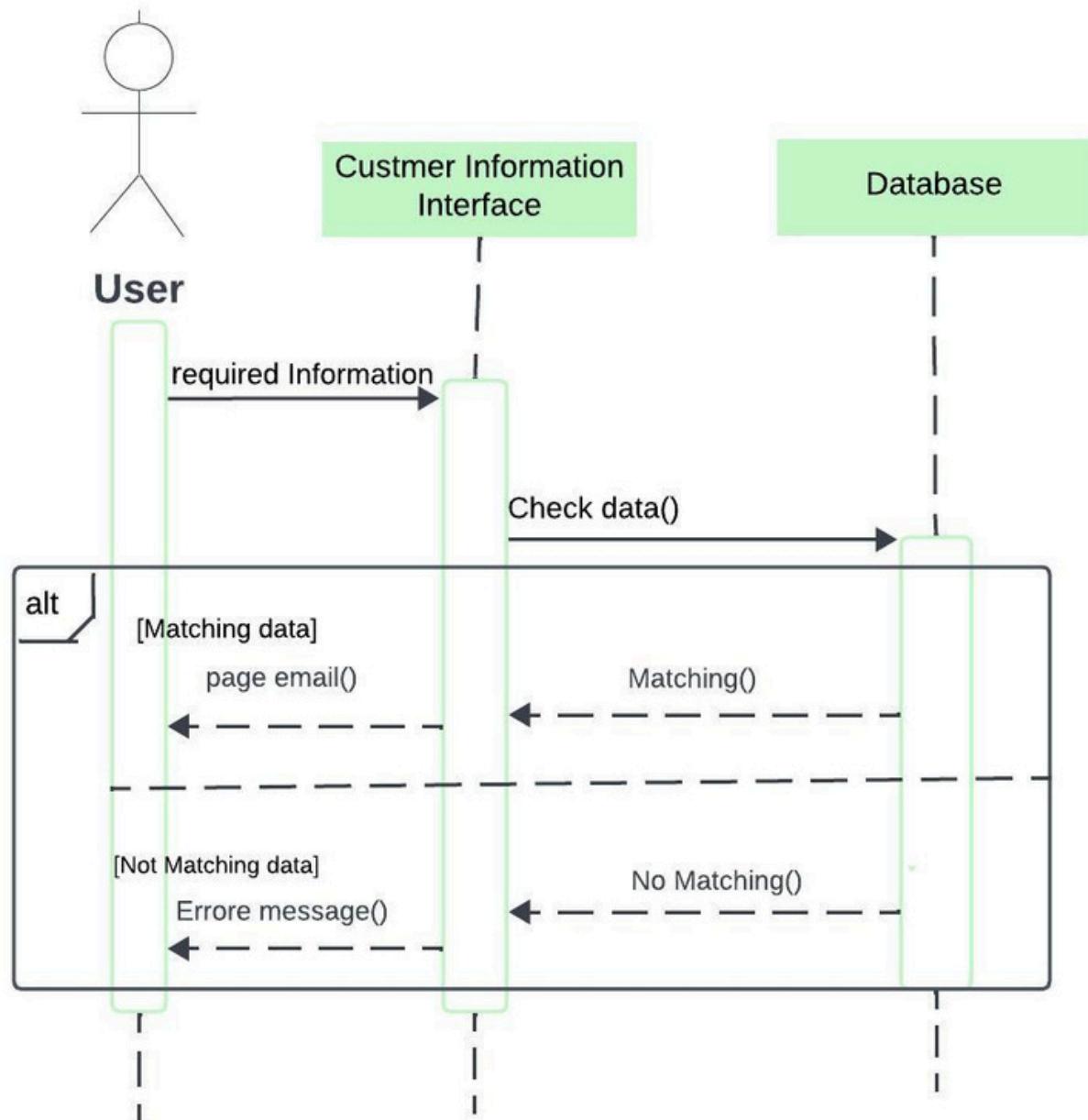
# Sequence diagram for Order

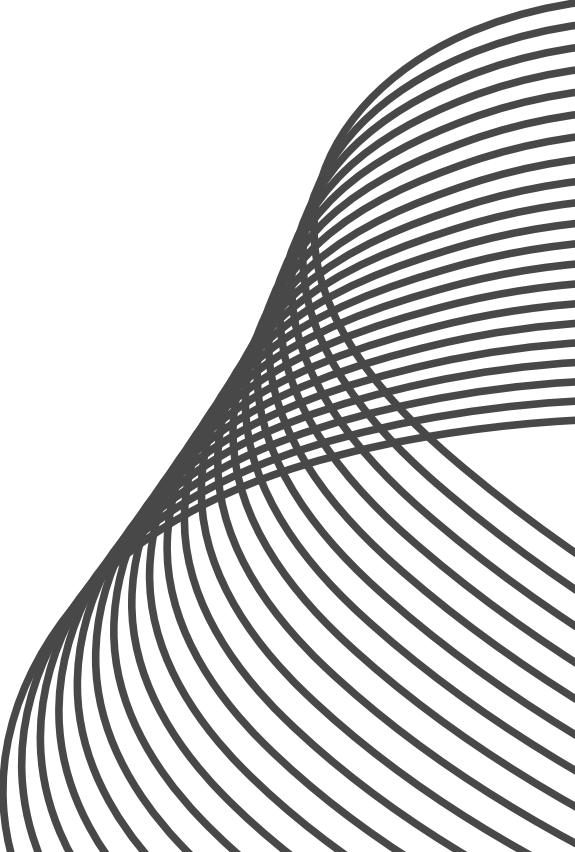
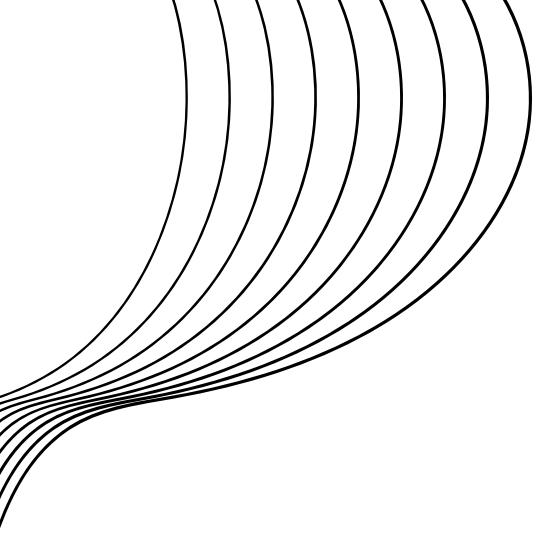


# Sequence diagram for Payment



# Sequence diagram for Contact us





# chapter 3

# Prototype for Registration Page



"Glow Beyond Beauty"



English (U.K) ▼

## Create Account

Full Name

Email Address

Password



Sign Up

Or Sign Up with



Already have an account ? [Log In](#)

# Prototype for Costmize cream page

Cart (3)

My profile

Who we are

Eudermi

Products

Customize your own cream

Get consultation

Contact us

Customize your own cream

preservatives ▾

Optethen+

Availability ▾

Vitamin C

Vitamin E

Licorice extract

Make my Cream ^\_^



# Prototype for Product page

Cart (3)

My profile

Who we are

Eudermi

Products

Customize your own cream

Get consultation

Contact us

[View All Skincare Products](#)

[+PRICE](#)

[+CONCERN](#)

[+INGREDIENTS](#)



**Frankincense cream**  
\$50.95  
inspired from oman

Add it to cart



**Matcha mask**  
\$66.51  
inspired from japan

Add it to cart

# Prototype for Get Consultation page

Cart (3)

My profile

Who we are

Eudermi

Products

Customize your own cream

Get consultation

Contact us

Expertise ▾

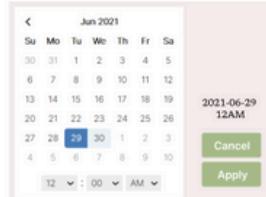
Availability ▾

Schedule ▾

Highly personable and dedicated Skin Care Specialist with a superb record of client satisfaction. Thoroughly knowledgeable in all types of cosmetics and their chemical and visual properties. Adept at responding to client concerns and needs in a personal and sensitive manner.

Sunday : 8am-11am

Thursday : 3pm-6pm



Emma



Chat with our expert!

\*You can contact the expert only if you have an appointment

# Prototype for Order page

Cart (3) My profile Who we are Eudermi

Cart (3 items)

**Frankincense cream** \$50.95 inspired from oman



Eudermi 100% Daily Lightweight Rebalancing Formula  
Smooths and Softens Skin with Glycerin Complex  
This hydrating cream provides water replenishment throughout the day to strengthen skin's natural moisture barrier and maintain balanced skin. This ultra-hydrating formula contains organic Frankincense and algae-derived Squalane, highly effective against aging and wrinkles.<sup>TM</sup> A Glycosaminoglycan extracted from microorganisms is a key ingredient to thrive in extreme climates.

+ 1 - remove

**Matcha mask** \$66.51 inspired from Japan



Eudermi Smooths and Softens Skin  
Our best-selling mask, this rich and velvety smooth mask深入毛孔，深层清洁，同时含有丰富的胶原蛋白和透明质酸，帮助保湿，使肌肤更光滑、更柔软。Net Wt. 3.4 oz. - 100 g

+ 1 - remove

**Order Summary**

Coupon Code	APPLY
Subtotal (2 items)	\$117.46
Shipping Details	\$13
<b>Total (Inclusive of VAT )</b>	<b>\$130.46</b>

**CHEACKOUT**

# Prototype for Payment page

Cart(3) My profile Who we are

Eudermi

Address —→ Payment —→ Confirmed

Enter your payment details

VISA    Mastercard    Maestro    JCB

CARD NUMBER  
0000 0000 0000 0000

EXPIRE DATE  
00/0000

CVV  
000

Remember this card for future use

Order summary

Frankincense cream	\$50.95
Matcha mask	\$66.51
Tax	\$2.00
<b>Total</b>	<b>\$119.46</b>

Confirm payment

# Prototype for Contact us page

Euderme

Products      Customize your own cream      Get consultation      Contact us

Customer Service

Name:

Email:

Subject:

Message:

Social media page      Submit

Social Media

Email  
Euderme@gmail.com

Direct Call  
+966533143009

Stay connected