CS383 PROJECT

ALLERGUARD APP

PREPARED BY GROUP G2

CONTENTS

- Main functionality
- Project planning and schedule
- Task management and time allocation
- Overcoming Project Challenges
- Use case diagram
- Data structure diagram
- Class diagram
- Activity diagram
- Sequence diagram
- User interface

MAIN FUNCTIONALITY

THE ALLERGUARD APP IS A POWERFUL TOOL DESIGNED TO ASSIST INDIVIDUALS WITH FOOD ALLERGIES OR INTOLERANCES. IT EFFORTLESSLY SCANS PRODUCT BARCODES, PROVIDING INFORMATION ABOUT IT AND IDENTIFYING POTENTIAL ALLERGENS. IF ALLERGENS ARE DETECTED, IT SUGGESTS SAFE ALTERNATIVES, HELPING USERS AVOID ALLERGIC REACTIONS OR INTOLERANCE SYMPTOMS. ADDITIONALLY, THE APP HELPS IN EMERGENCIES BY ALLOWING CALLING OF CLOSEST RELATIVES OR LOCATING THE NEAREST HOSPITAL. OVERALL, IT EMPOWERS INDIVIDUALS BY OFFERING INGREDIENT INFORMATION, SAFE SUBSTITUTES, AND QUICK ACCESS TO MEDICAL FACILITIES, ENSURING THEIR WELL-BEING IN THE FACE OF ALLERGIES OR INTOLERANCES.

PROJECT PLANNING

SRS FILE:

THE TASKS IN THE SRS FILE WERE DIVIDED INTO 7 SO THAT EACH MEMBER OF THE GROUP CHOOSES THE TOPIC AND WORKS ON IT.
WE SET A DEADLINE FOR DELIVERY SO THAT WE CAN COMPLETE IT QUICKLY AND PROFESSIONALLY, THEN A MEETING WAS HELD TO PRESENT ALL THE WORK TO MAKE SURE WHETHER WE NEED MODIFICATIONS OR SUGGESTIONS

SDD FILE:

A MEETING WAS HELD TO PRESENT THE REQUIREMENTS OF THE SDD FILE, AND BECAUSE IT CONTAINS A DRAWING AND TAKES TIME, SO THE TASKS WERE DIVIDED SO THAT EVERY TWO OR THREE MEMBERS OF THE GROUP WORK ON A TOPIC TOGETHER UNTIL IT IS GREATLY ACCOMPLISHED, AND THEN A MEETING IS HELD TO MAKE SURE THAT THE FILE IS COMPLETED.

IN THE PRESENTATION

THE TASKS WERE DIVIDED INTO 7 AND DISTRIBUTED TO THE GROUP MEMBERS.

SRS

Started
26/09/2023
End
19/10/2023
Days to complete
23

SDD

Started
01/11/2023
End
18/11/2023
Days to complete
18

PRESENTATION

Started
02/12/2023
End
05/12/2023
Days to complete
3

Task management

1 PROJECT IDEA :

After we chose the idea, which was to suggest all the group members, after discussion, we had to start with the SRS file and the SDD file, and the tasks were divided for each group member.

2 SRS FILE :

The tasks in the SRS file were divided into 7 so that each member of the group chooses the topic and works on it.
section ntroduction & Report design Aliaa, System Overview Amani & Aliaa, Functional Requirements Rafeef & Sumayh, Use Cases Raghad AlYaeesh, External Interface Requirements Lama, Non-functional Requirements Raghad AlSuhaibani.

3 SDD FILE :

A meeting was held to present the requirements of the SDD file: Introduction Raghad AlSuhaibani, System Overview Aliaa, System Architecture and Components Design Lama & Rafeef AlSuhaibani, Data Design Sumayh& Rafeef AlSuhaibani & Amani, Design Details Raghad AlYaeesh & Raghad AlSuhaibani, Human Interface Design Aliaa & Raghad AlSuhaibani, Report design Aliaa.

Time allocation

1 **PROJECT IDEA :**

Started 4 pm and we takes 38 minutes to choose the idea for the project
the End 5 pm almost.

2 **SRS FILE :**

Started 26/09/2023 and we takes Days to complete 23 We finished it all
the End19/10/2023.

3 **SDD FILE :**

Started 01/11/2023 and we takes Days to complete 18 We finished it all
the End 18/11/2023

OVERCOMING PROJECT CHALLENGES

1 COMMUNICATION AND COLLABORATION HURDLES

- *Meet Regularly Online*
- *Define Roles Clearly*
- *Quick Communication*
- *Positive Team Environment*

2 TIME CONSTRAINTS

- *Smart Scheduling*
- *Efficient Meetings*
- *Asynchronous Communication*
- *Task Breakdown*

3 RESOURCE AND REFERENCE LIMITATIONS

- *Thorough Research*
- *Guidance from Instructors*
- *Team Collaboration*
- *Diverse Exploration*

4

LACK OF DOMAIN KNOWLEDGE IN FOOD ALLERGY MANAGEMENT

- *Thorough Allergen Research*
- *Professional Consultation*
- *User Collaboration*

5

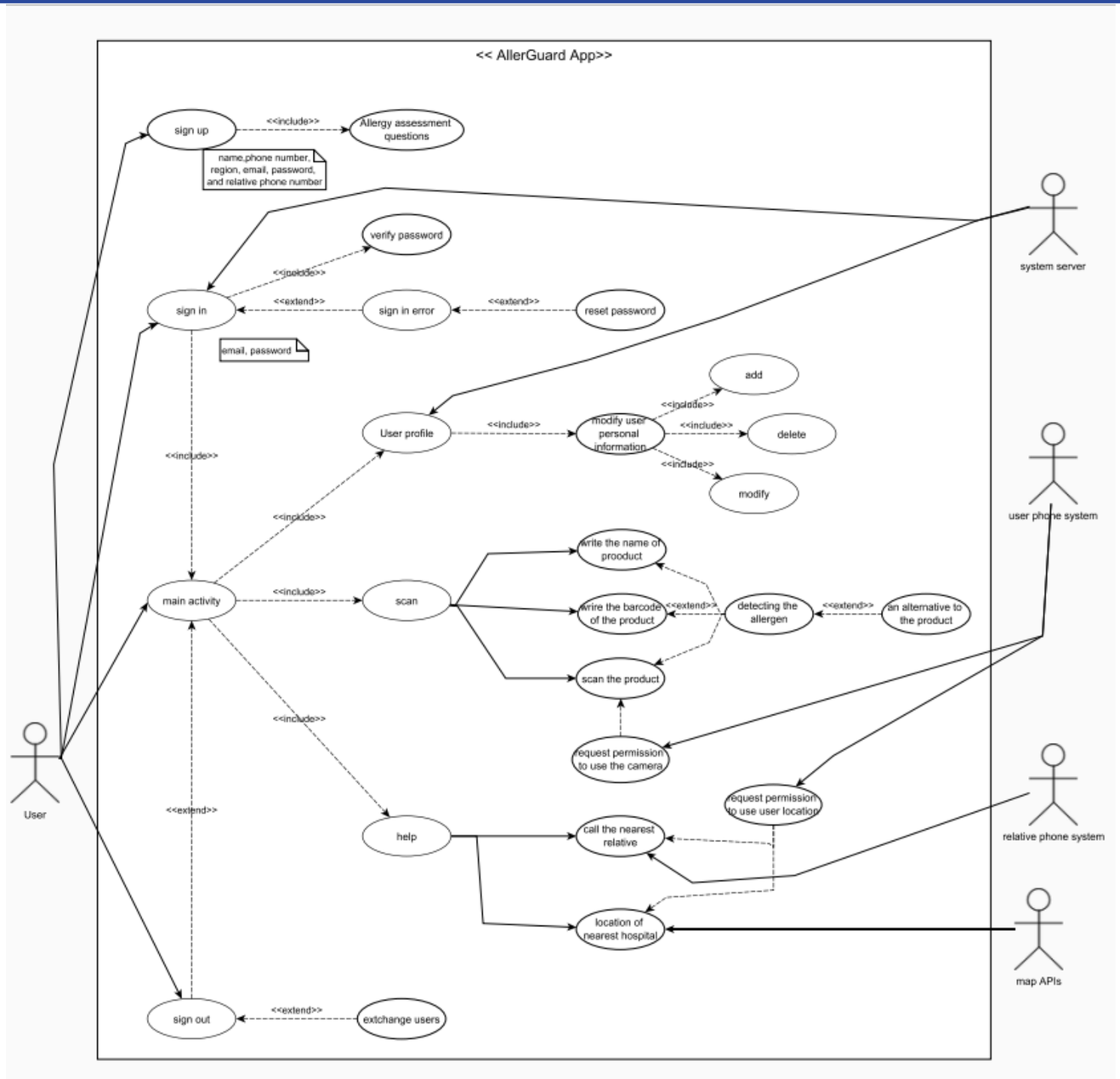
ADAPTING TO CHANGING PROJECT REQUIREMENTS

- *Ongoing Goal Assessment*
- *Open Communication*
- *Flexibility*

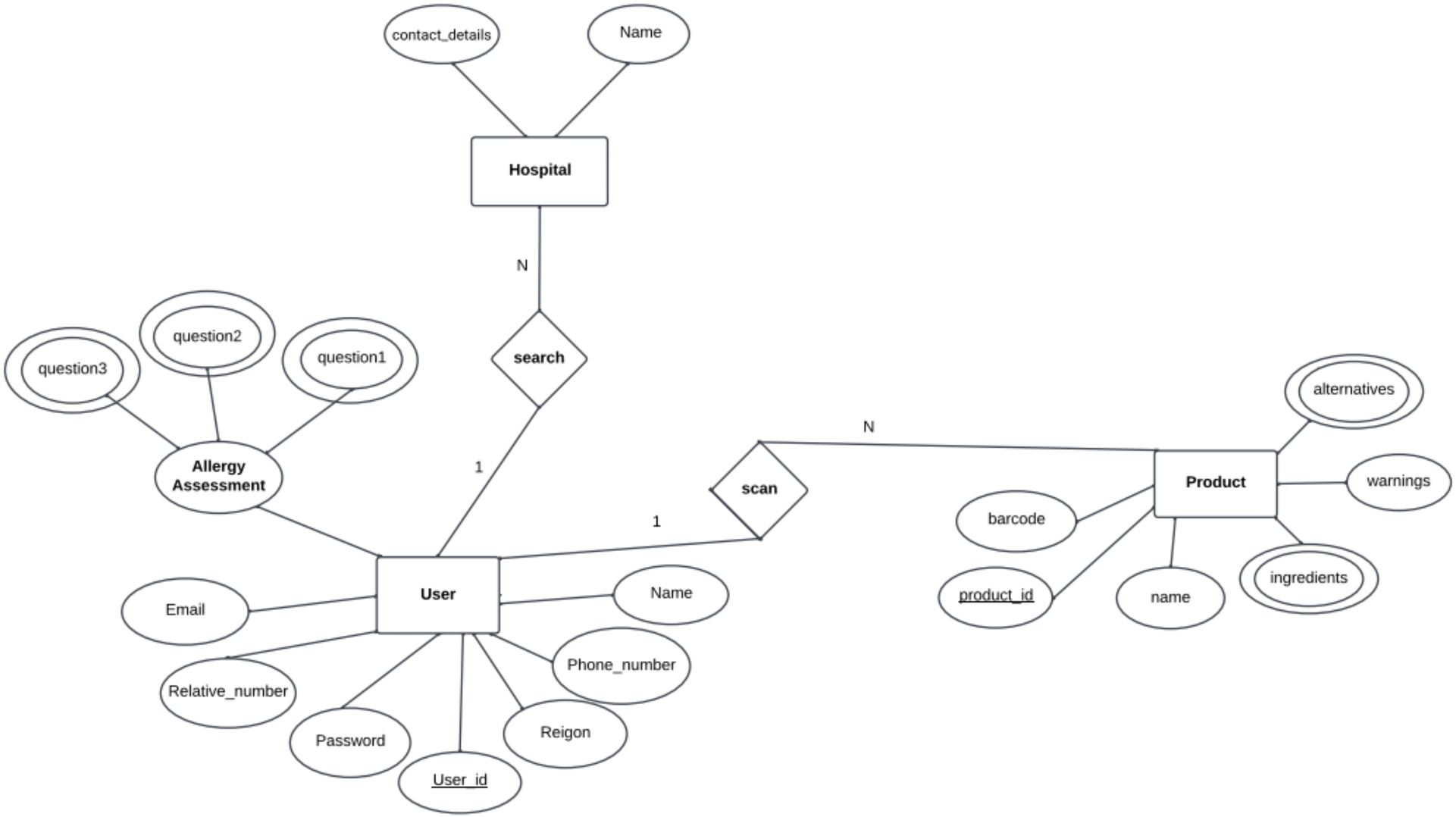
DIAGRAMS

- *use case diagram*
- *data structure diagram*
- *class diagram*
- *activity diagram*
- *sequence diagram*

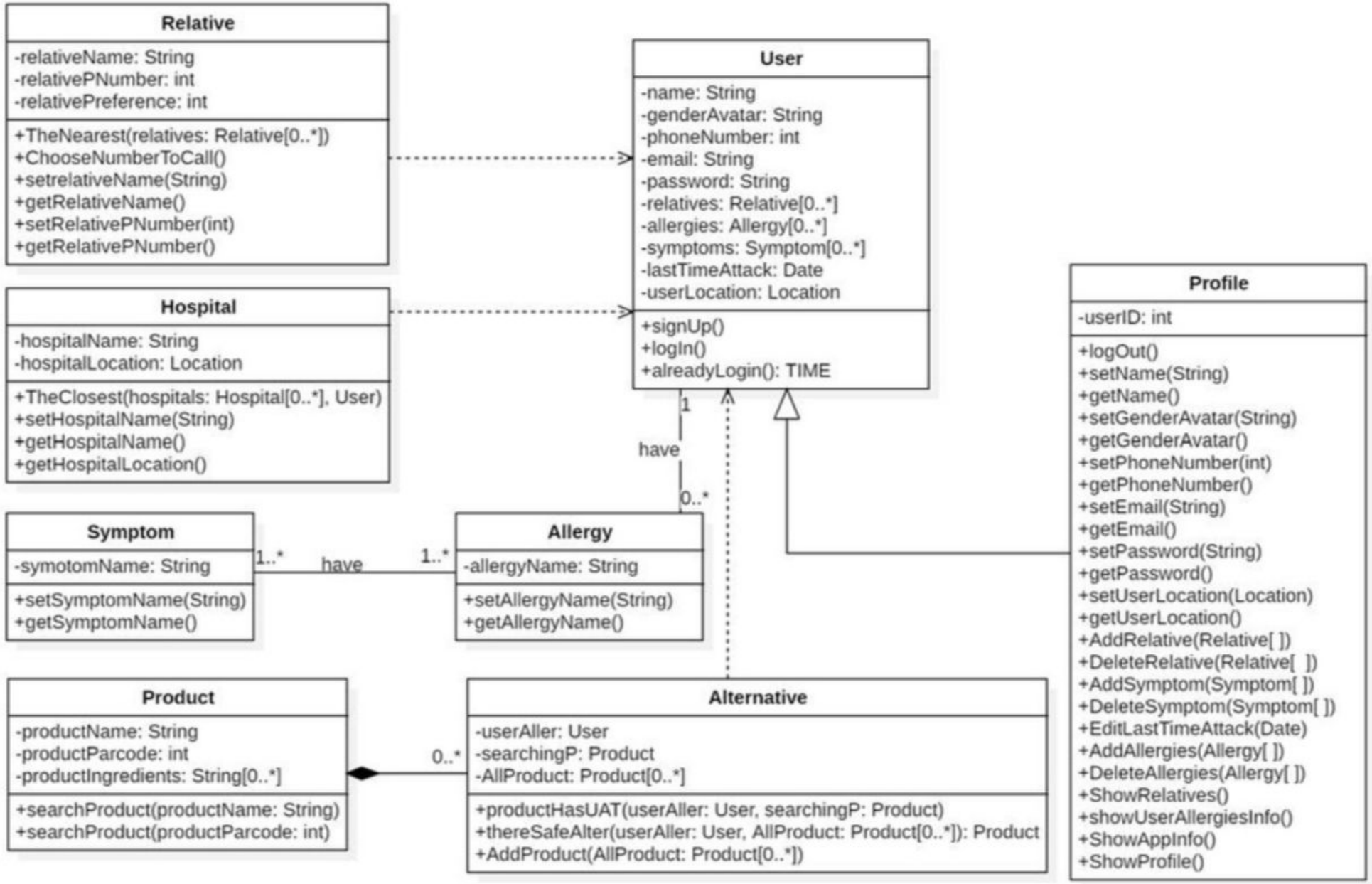
USE CASE DIAGRAM



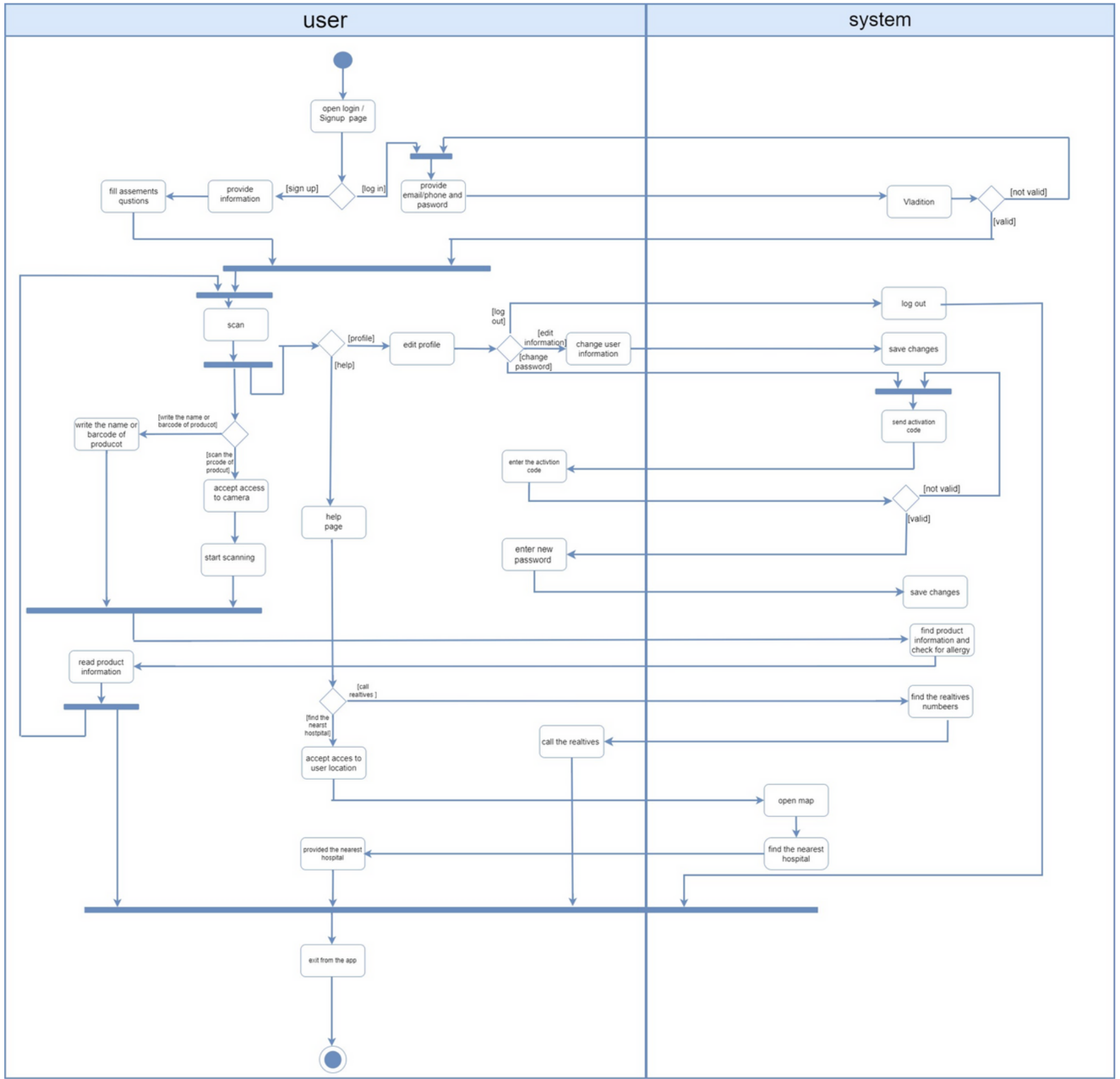
DATA STRUCTURE DIAGRAM



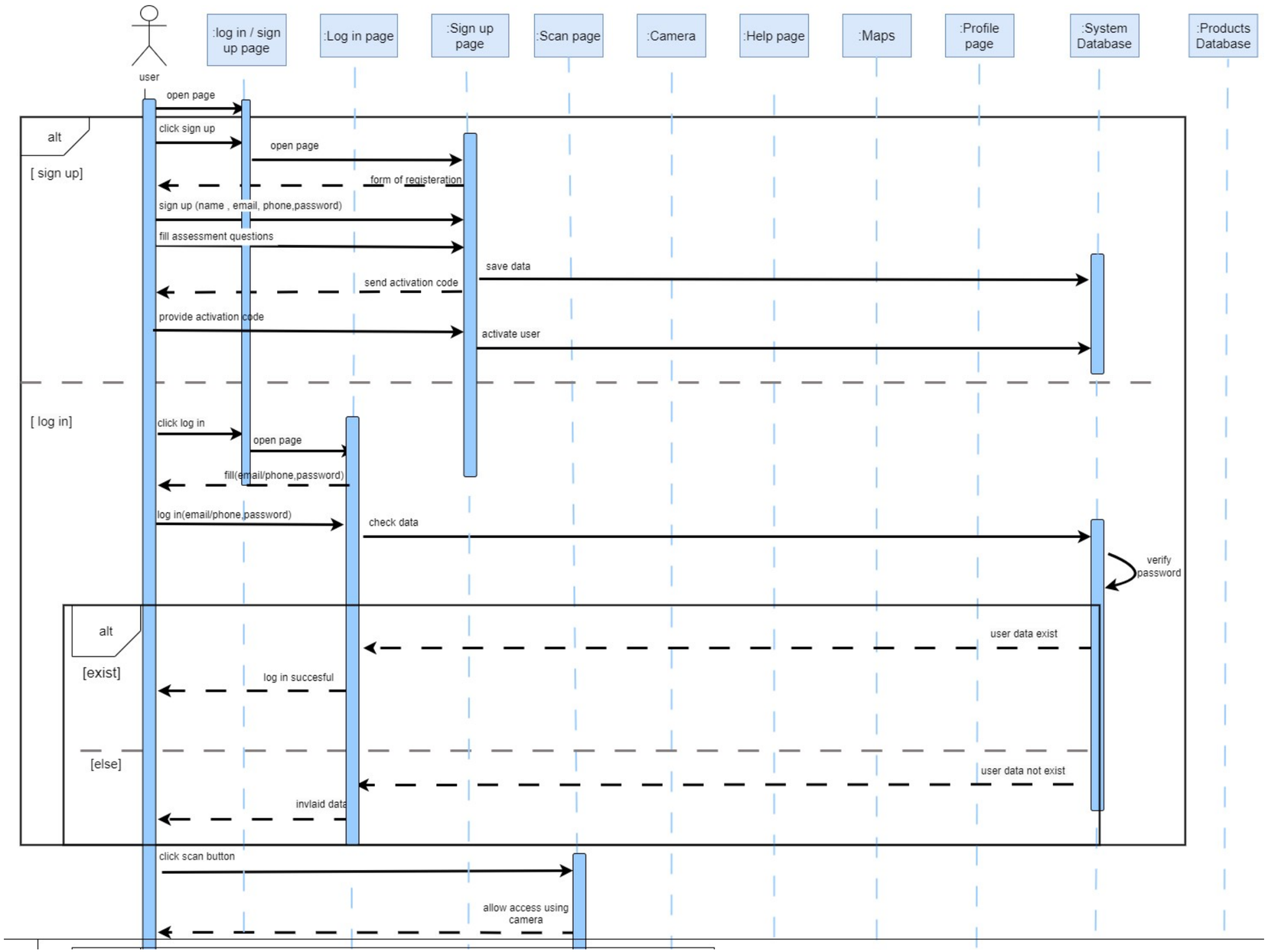
CLASS DIAGRAM

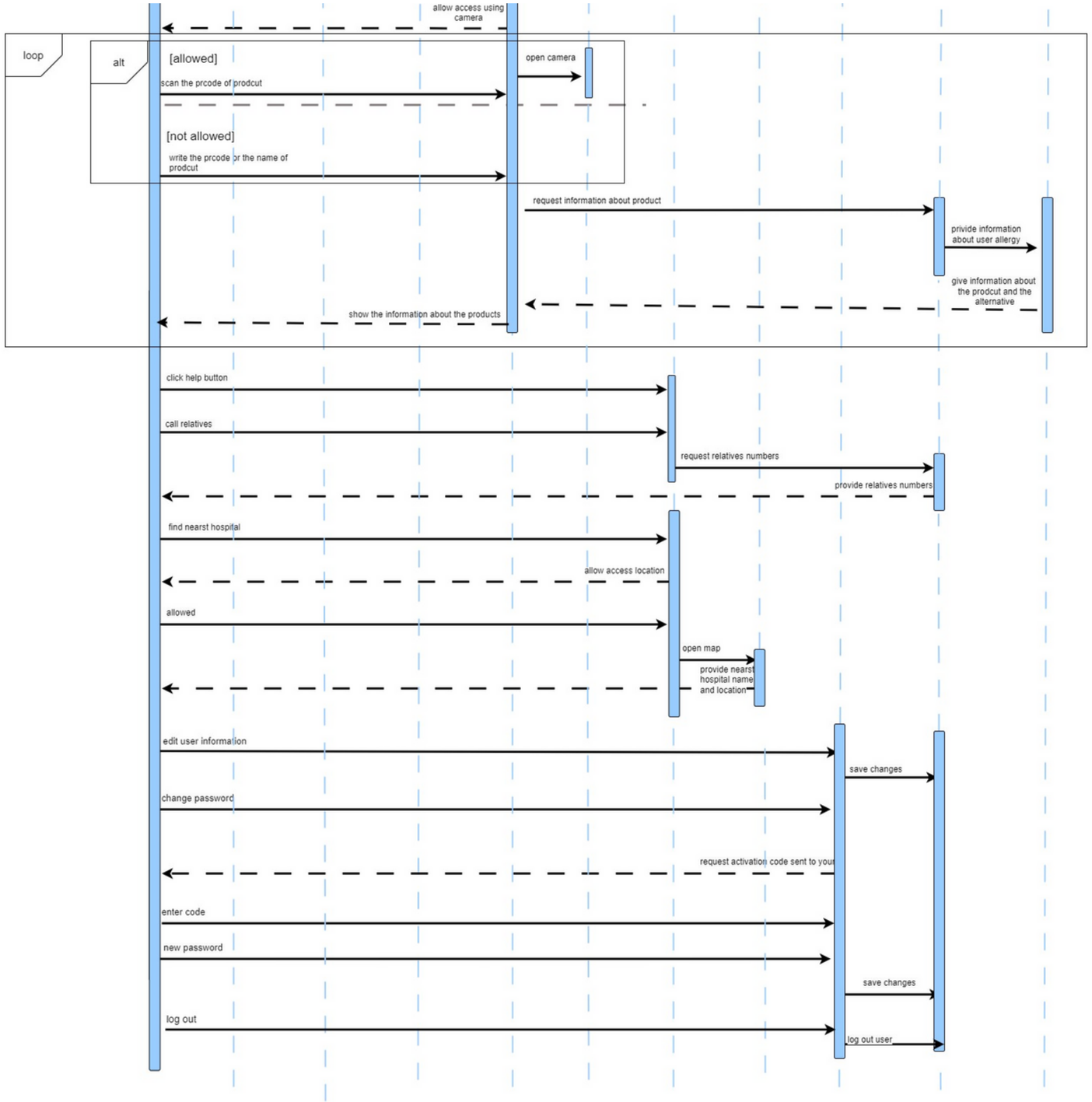


ACTIVITY DIAGRAM



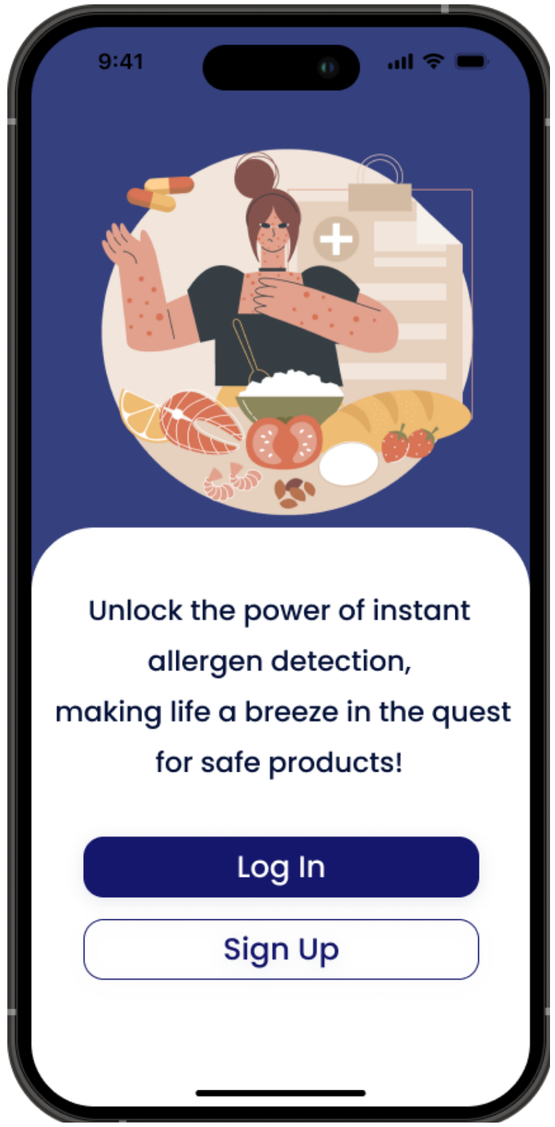
SEQUENCE DIAGRAM

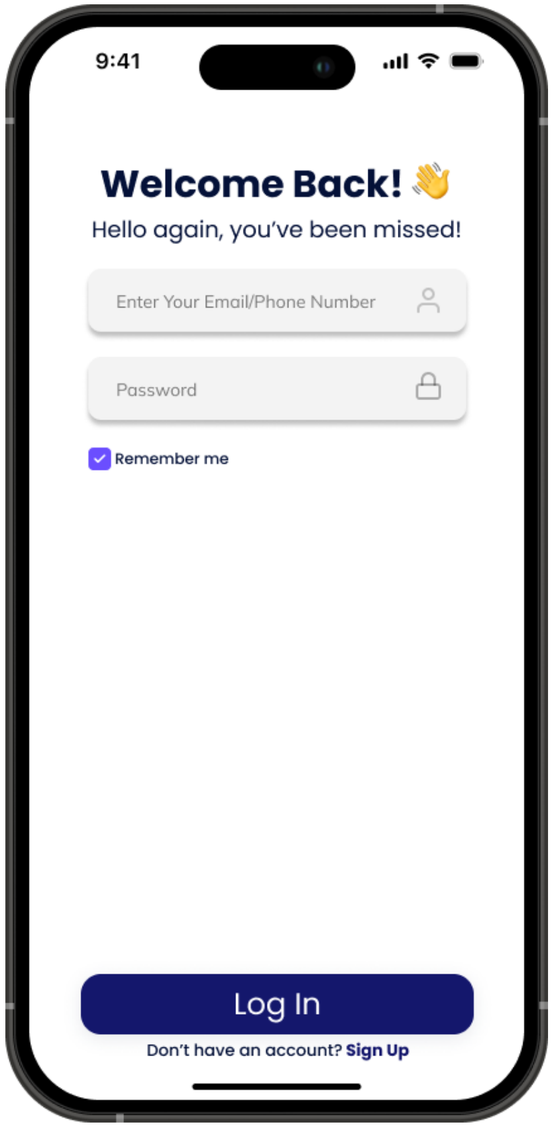


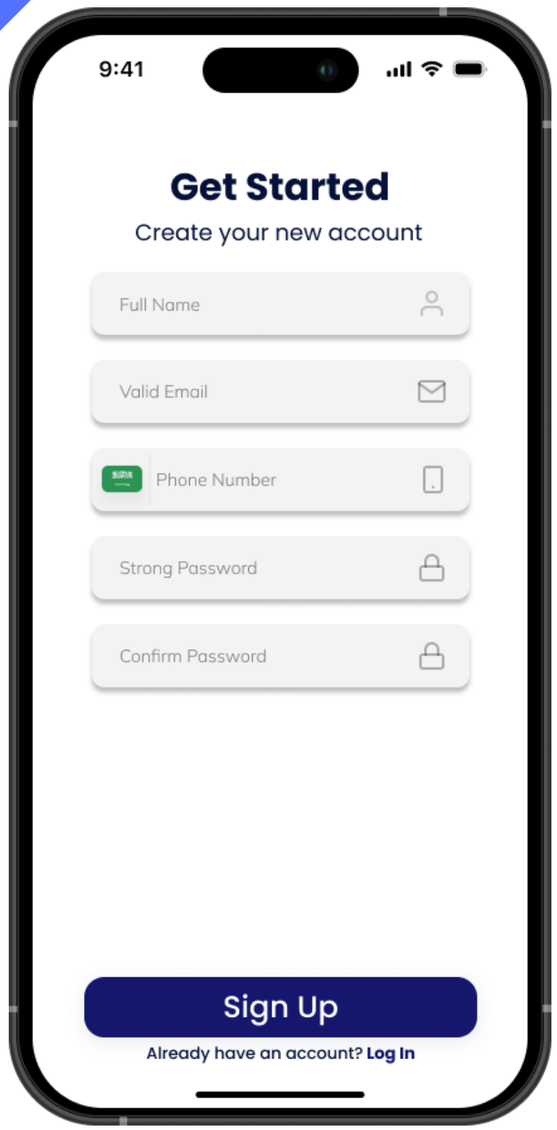

allow access using camera
loop
alt
[allowed]
open camera
scan the prcode of prodcut
[not allowed]
write the prcode or the name of prodcut
request information about product
privide information about user allergy
give information about the prodcut and the alternative
show the information about the products
click help button
call relatives
request relatives numbers
provide relatives numbers
find nearst hospital
allow access location
allowed
open map
provide nearst hospital name and location
edit user information
save changes
change password
request activation code sent to your
enter code
new password
save changes
log out
log out user

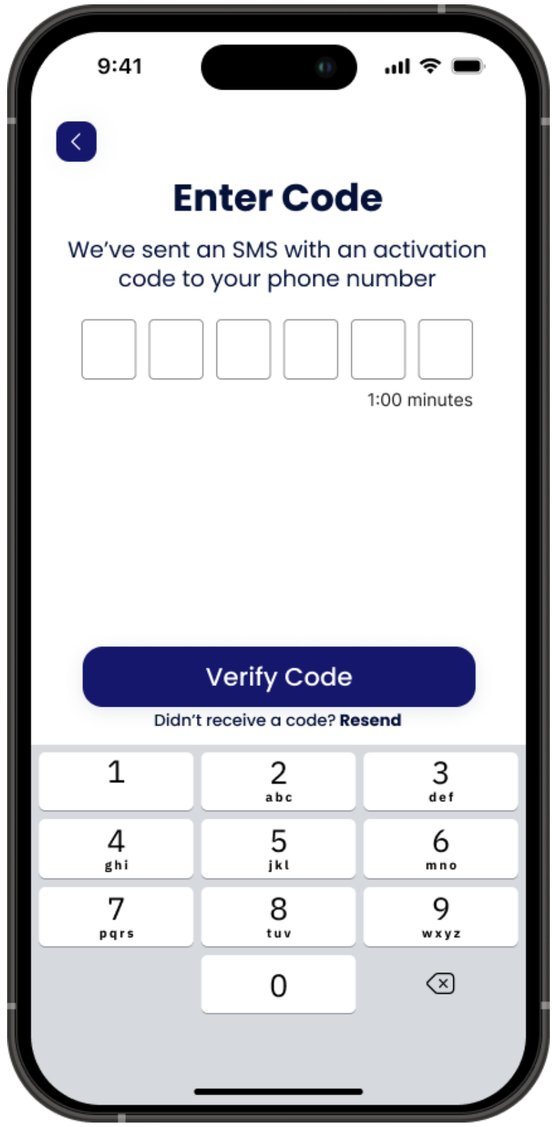
USER INTERFACE

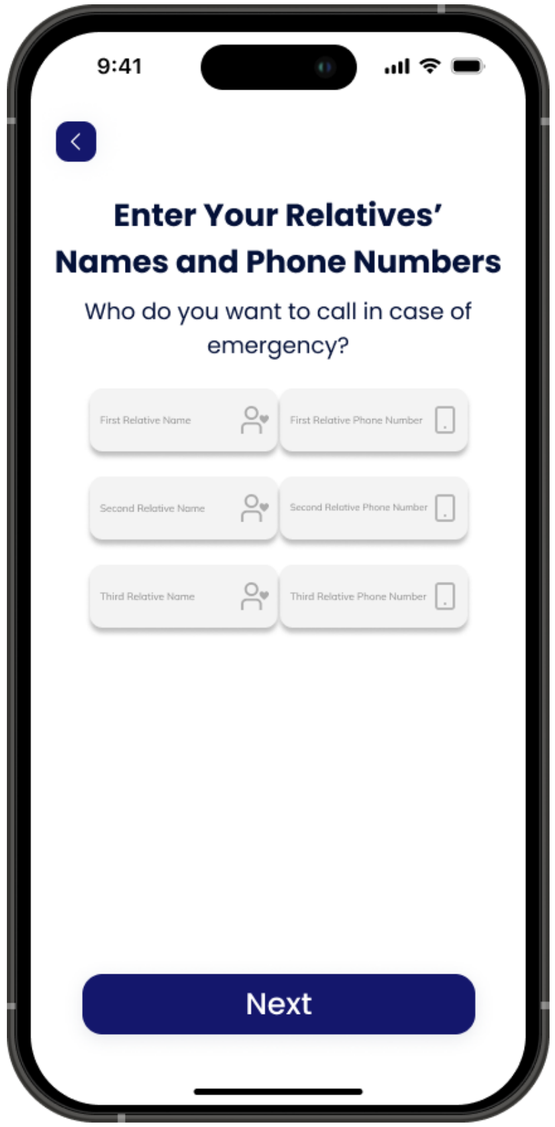
9:41
ALLERGUARD

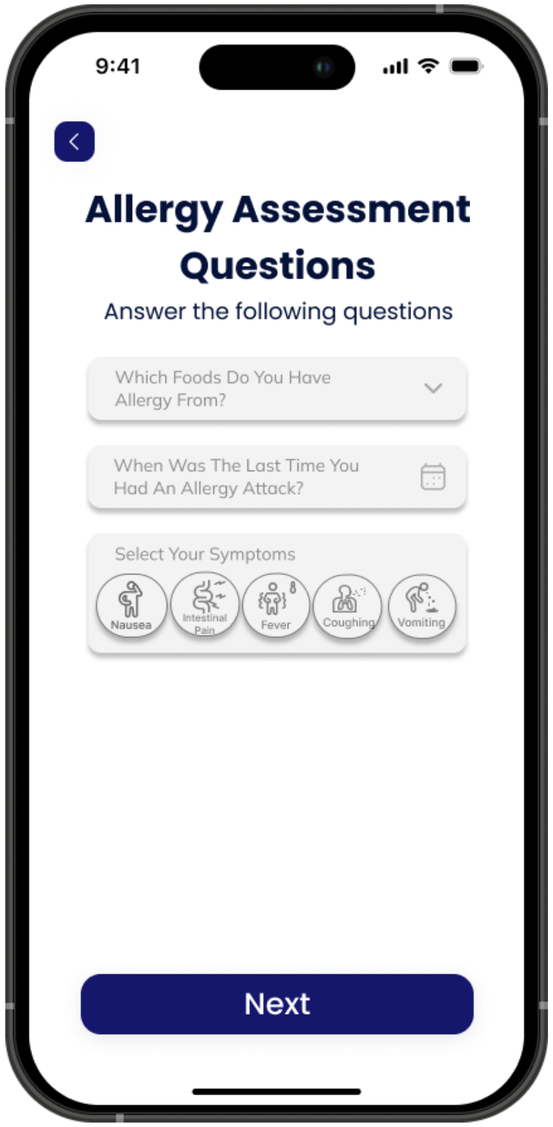

9:41
Unlock the power of instant allergen detection, making life a breeze in the quest for safe products!
Log In
Sign Up

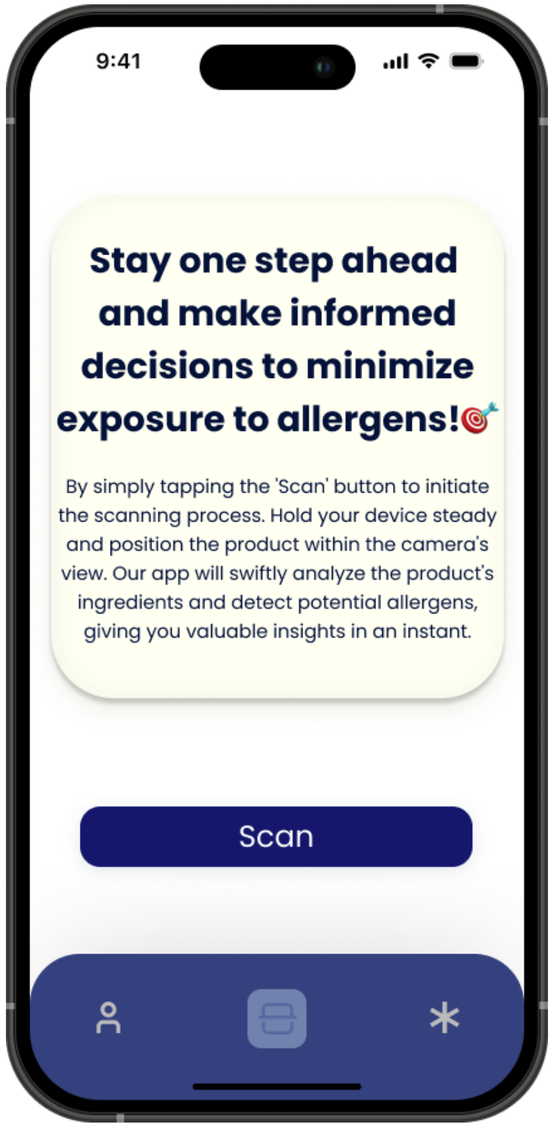

9:41
Welcome Back! 👋
Hello again, you've been missed!
Enter Your Email/Phone Number
Password
Remember me
Log In
Don't have an account? Sign Up


9:41
Get Started
Create your new account
Full Name
Valid Email
Phone Number
Strong Password
Confirm Password
Sign Up
Already have an account? Log In

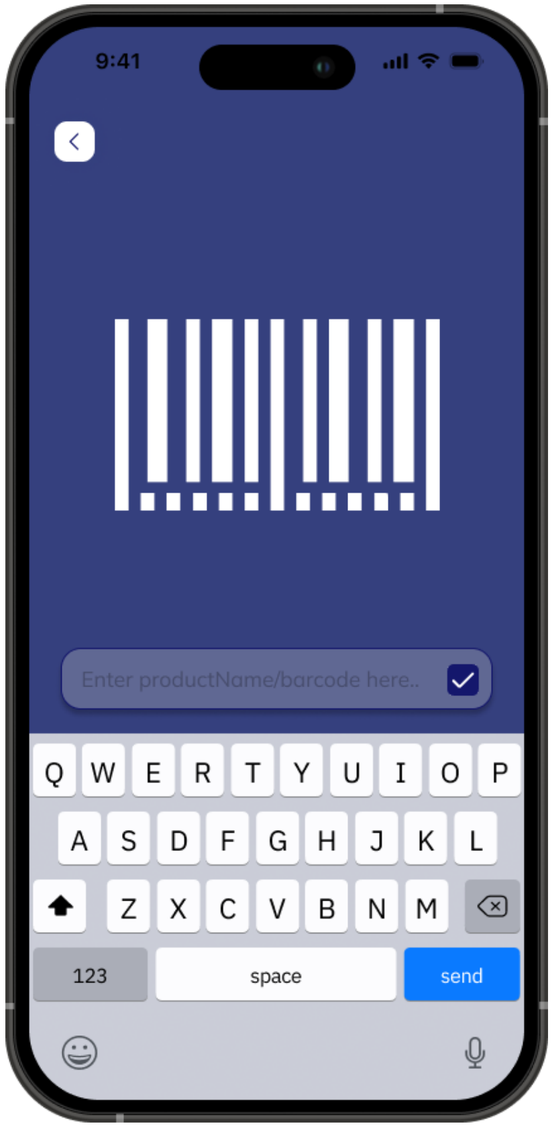

9:41
Enter Code
We've sent an SMS with an activation code to your phone number
1:00 minutes
Verify Code
Didn't receive a code? Resend
1
2 abc
3 def
4 ghi
5 jkl
6 mno
7 pqrs
8 tuv
9 wxyz
0


9:41
Enter Your Relatives' Names and Phone Numbers
Who do you want to call in case of emergency?
First Relative Name
First Relative Phone Number
Second Relative Name
Second Relative Phone Number
Third Relative Name
Third Relative Phone Number
Next


9:41
Allergy Assessment Questions
Answer the following questions
Which Foods Do You Have Allergy From?
When Was The Last Time You Had An Allergy Attack?
Select Your Symptoms
Nausea
Intestinal Pain
Fever
Coughing
Vomiting
Next

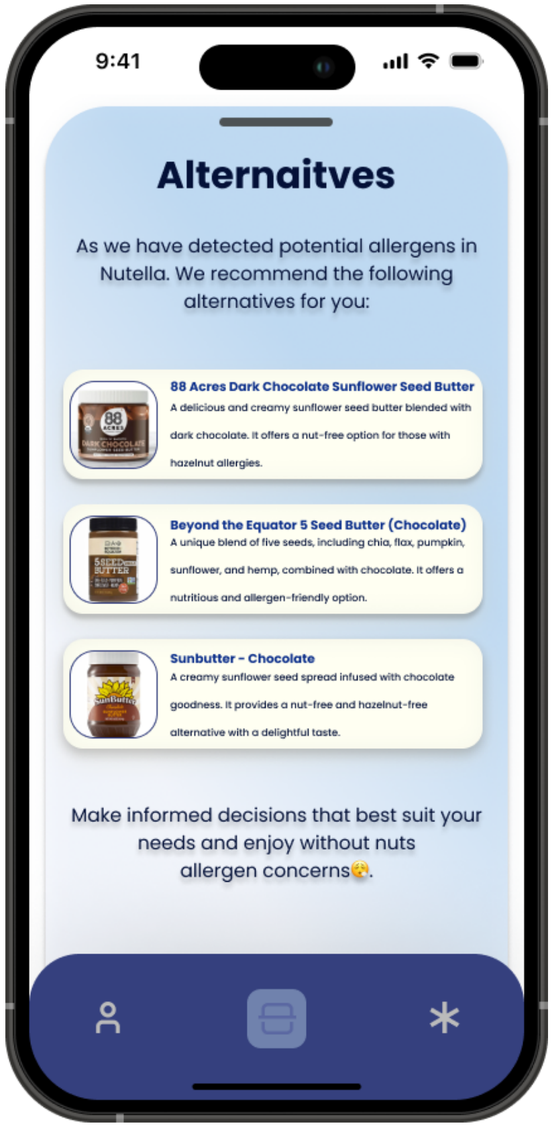

9:41
Stay one step ahead and make informed decisions to minimize exposure to allergens!🎯
By simply tapping the 'Scan' button to initiate the scanning process. Hold your device steady and position the product within the camera's view. Our app will swiftly analyze the product's ingredients and detect potential allergens, giving you valuable insights in an instant.
Scan

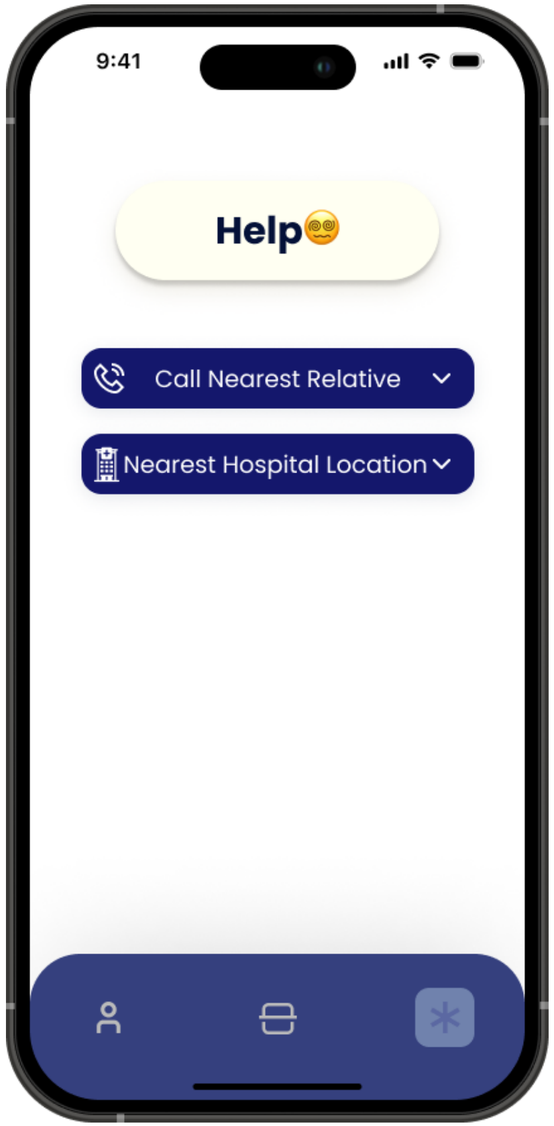
9:41
Scanning the product....
Enter manually


9:41
Enter productName/barcode here..
Q W E R T Y U I O P
A S D F G H J K L
Z X C V B N M
123
space
send

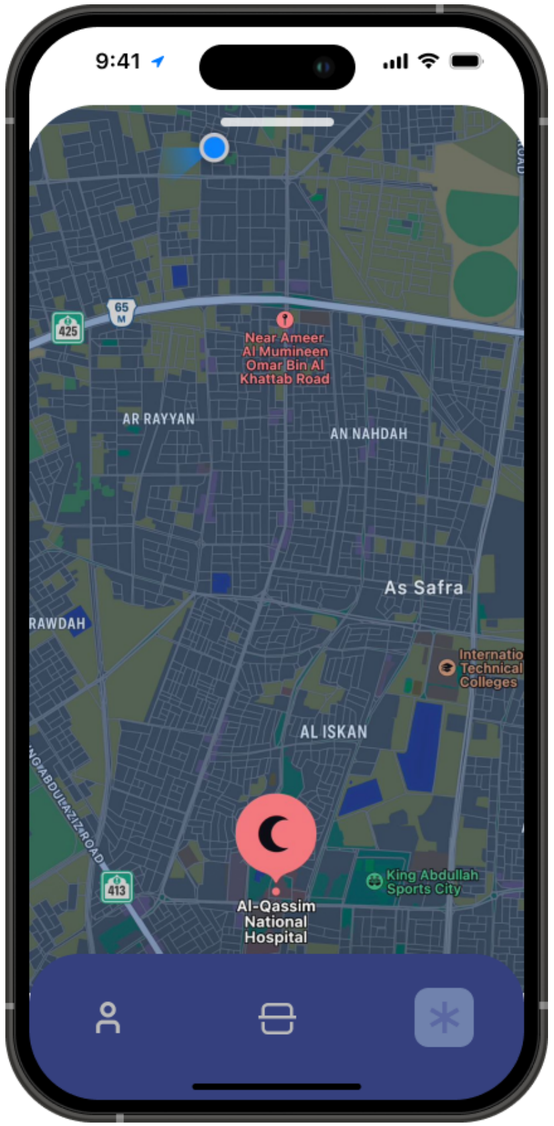
9:41
Scan result:
Nutella
Ferrero
nutella
No Allergens Detected
Great news! No potential allergens were detected in Nutella.
Enjoy Nutella without worrying about common allergens. Indulge in the creamy and delicious hazelnut spread, perfect for spreading on toast, adding to desserts, or simply enjoying by the spoonful.

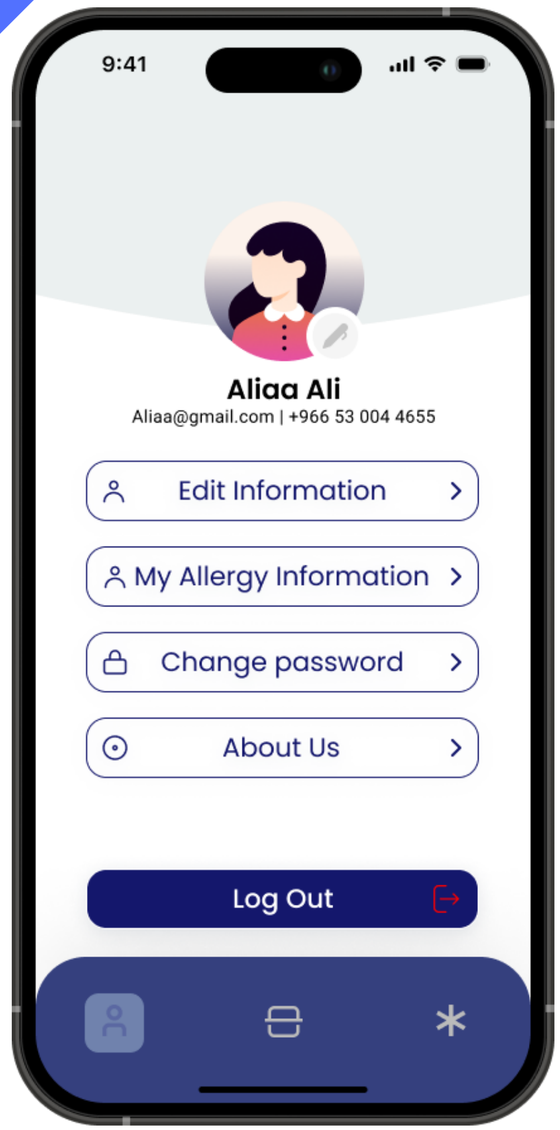
9:41
Scan result:
Nutella
Ferrero
nutella
Allergens Detected!!
Unfortunately, we have detected nuts in Nutella, which is one of your allergens.
Nuts
See Alternaitves

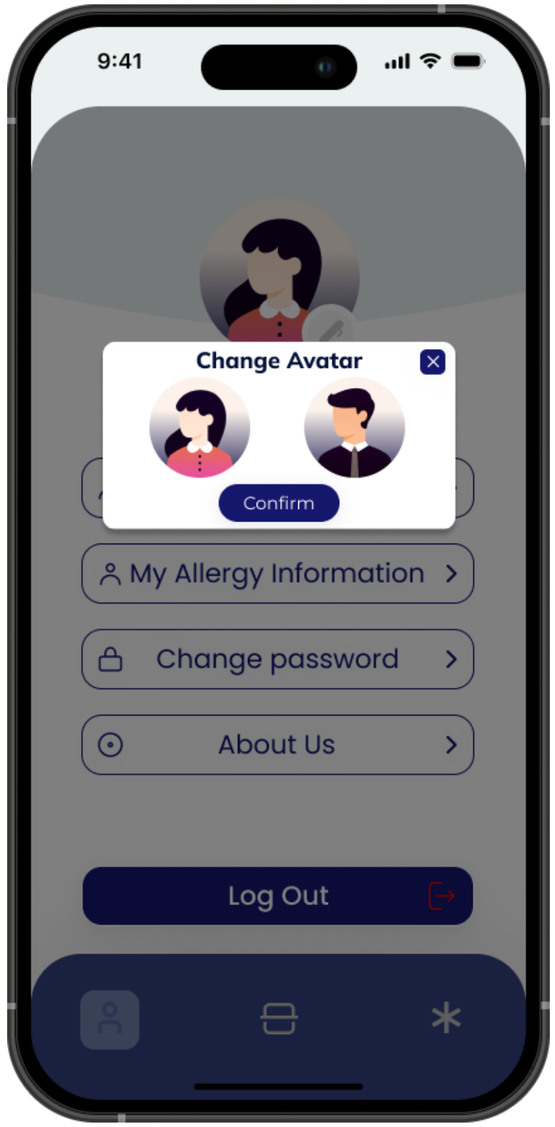

9:41
Alternaitves
As we have detected potential allergens in Nutella. We recommend the following alternatives for you:
88 Acres Dark Chocolate Sunflower Seed Butter
A delicious and creamy sunflower seed butter blended with dark chocolate. It offers a nut-free option for those with hazelnut allergies.
Beyond the Equator 5 Seed Butter (Chocolate)
A unique blend of five seeds, including chia, flax, pumpkin, sunflower, and hemp, combined with chocolate. It offers a nutritious and allergen-friendly option.
Sunbutter - Chocolate
A creamy sunflower seed spread infused with chocolate goodness. It provides a nut-free and hazelnut-free alternative with a delightful taste.
Make informed decisions that best suit your needs and enjoy without nuts allergen concerns.

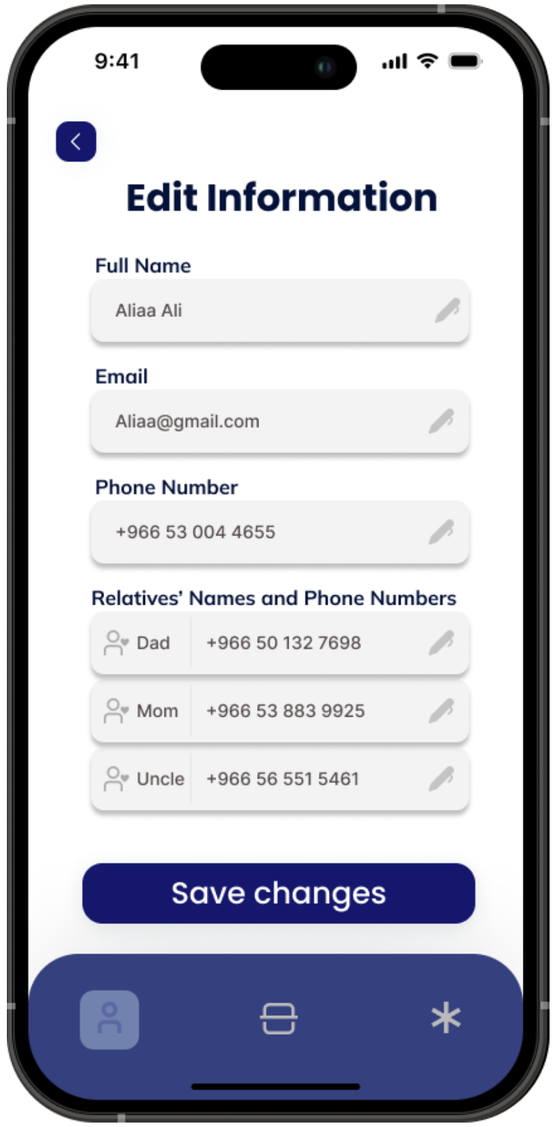

9:41
Help
Call Nearest Relative
Nearest Hospital Location

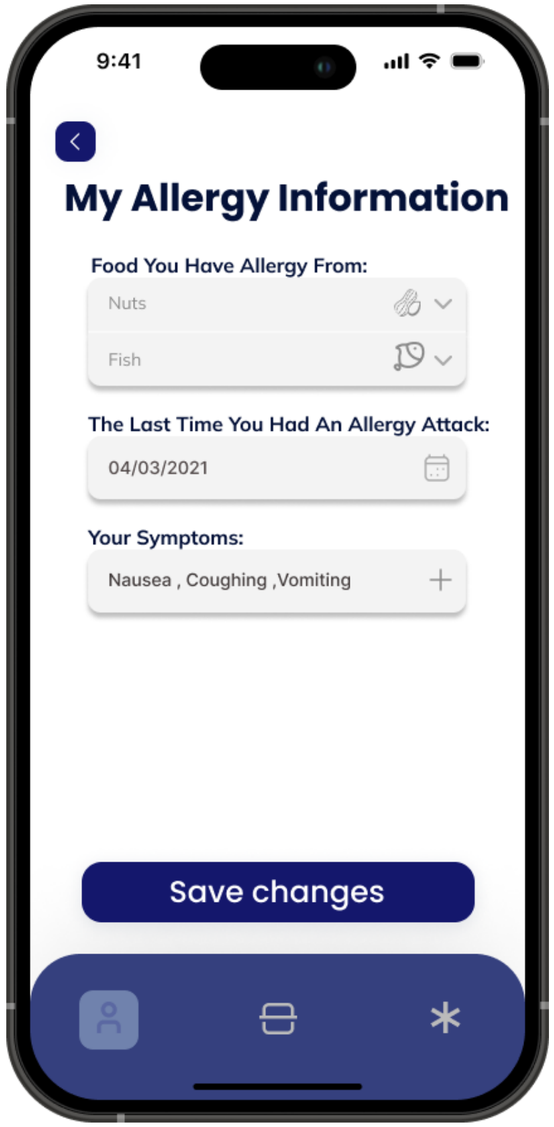
9:41
Your Nearest Relatives
Uncle
Mom
Dad

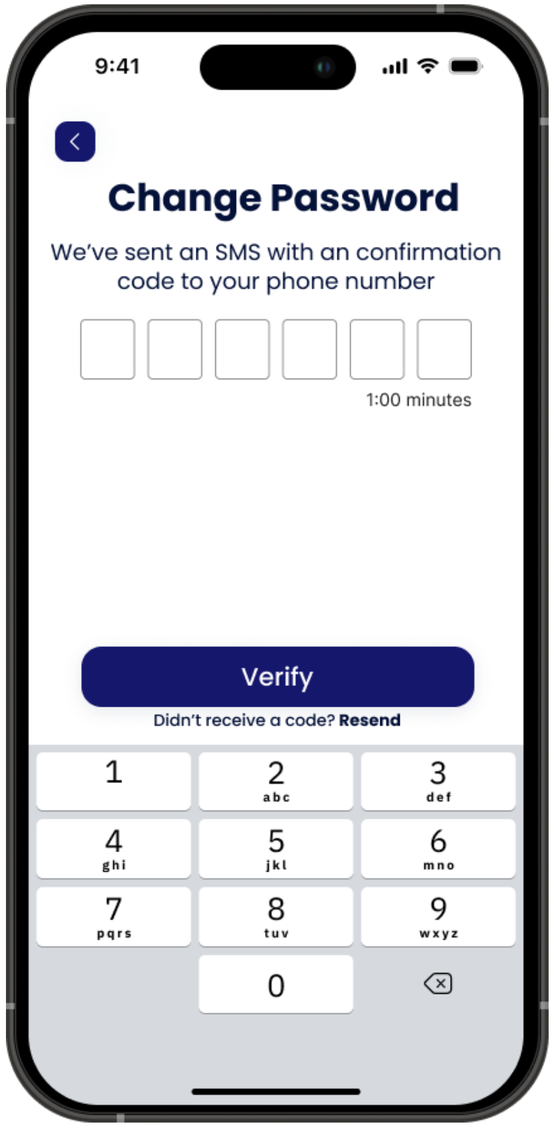

9:41
Near Ameer Al Mumineen Omar Bin Al Khattab Road
AR RAYYAN
AN NAHDAH
As Safra
RAWDAH
AL ISKAN
Al-Qassim National Hospital
King Abdullah Sports City

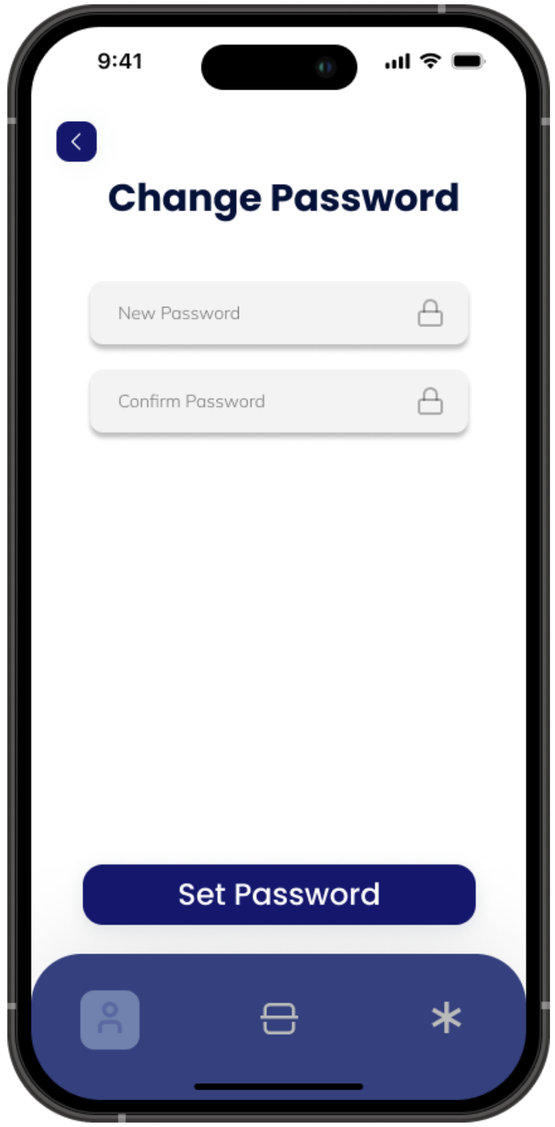

9:41
Aliaa Ali
Aliaa@gmail.com | +966 53 004 4655
Edit Information
My Allergy Information
Change password
About Us
Log Out

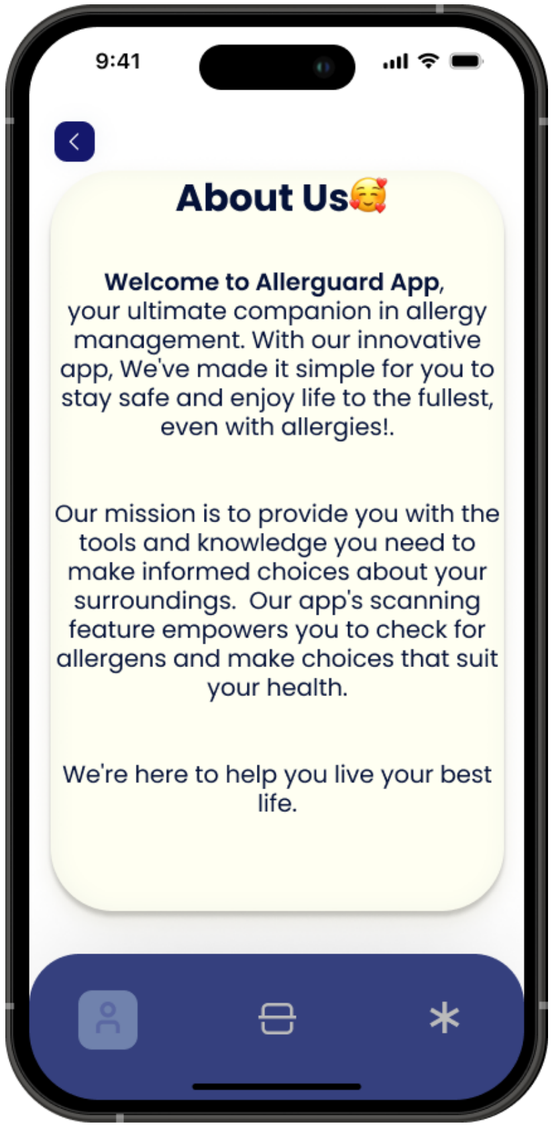

9:41
Change Avatar
Confirm
My Allergy Information
Change password
About Us
Log Out


9:41
Edit Information
Full Name
Aliaa Ali
Email
Aliaa@gmail.com
Phone Number
+966 53 004 4655
Relatives' Names and Phone Numbers
Dad
+966 50 132 7698
Mom
+966 53 883 9925
Uncle
+966 56 551 5461
Save changes


9:41
My Allergy Information
Food You Have Allergy From:
Nuts
Fish
The Last Time You Had An Allergy Attack:
04/03/2021
Your Symptoms:
Nausea , Coughing ,Vomiting
Save changes


9:41
Change Password
We've sent an SMS with an confirmation code to your phone number
1:00 minutes
Verify
Didn't receive a code? Resend
1
2 abc
3 def
4 ghi
5 jkl
6 mno
7 pqrs
8 tuv
9 wxyz
0


9:41
Change Password
New Password
Confirm Password
Set Password


9:41
About Us🥰
Welcome to Allerguard App, your ultimate companion in allergy management. With our innovative app, We've made it simple for you to stay safe and enjoy life to the fullest, even with allergies!.
Our mission is to provide you with the tools and knowledge you need to make informed choices about your surroundings. Our app's scanning feature empowers you to check for allergens and make choices that suit your health.
We're here to help you live your best life.

TASK DIVISION AND DISCUSSION

Group Members and Their Allocated Tasks:

Main functionality - Amani
Project planning and schedule - Lama
Task management and time allocation - Sumayh
Overcoming Project Challenges - Rafeef
Use case diagram - Raghad AlYaeesh
Data structure diagram - Raghad AlYaeesh
Class diagram - Raghad AlYaeesh
Activity diagram - Raghad AlSuhaibani
Sequence diagram - Raghad AlSuhaibani
User interface - Aliaa