جامعة أم القرى
UMM AL-QURA UNIVERSITY

LITTLE ASIA
آسيا الصغرى

LITTLE ASIA GUIDE

BY: AHAD ABUYABIS
&
TEAM

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TABLE TASK

Tasks	Ahad Abuyabis					
Problem Definition		✓	✓			
Solution					✓	✓
Aims and Objectives	✓			✓		
Functional Requierment	**9**	**1,5,8**	**2,3,6**	**7,8**	**5،9**	**1,4**
Non-Functional Requierment	✓					
Tools and Methodology		✓			✓	
Use Case Diagram			✓			
scenarios	✓					

TABLE TASK

Tasks	Ahad Abuyabis					
DFD level 0		✓				
DFD level 1	**P1,P9**		**P2,P5**		**P3,P7**	**P4, P6**
child digram	✓	✓				
Class diagram			✓			
Sequence Diagram				**5,7,8**	**2,3,9**	**1, 4, 6**
Prototypes	**10,11**	**2,3,4,13**	**5,6,9,15**	**8,14**	**16,17**	**1, 7, 12**
Conclusion & Future work		✓	✓			
References	✓		✓	✓		

CHAPTER 1
INTRODUCTION

Introduction

- Problem Definition:

In response to the growing popularity of Little Asia in Jeddah, there is a need to establish a comprehensive website that enhances the visitor experience, facilitates ticket booking, provides detailed maps of the entire area, and integrates user-generated reviews and photos.

- Solutions:

Our website aims to enhance community engagement in Little Asia, Jeddah. By showcasing volunteering opportunities
and feedback. Our primary goal is to create a user-friendly platform that seamlessly integrates practical functionalities, fostering community involvement and contributing to the overall enjoyment and accessibility of the area. The app is designed to help visitors, event organizers, and volunteers, offering features such as map for every area, a comprehensive list of volunteering opportunities, and an event calendar.

- Aims and Objectives:

1- create a secure & fast application.

2- users all ages are able to book tickets and rate their experience.

3-reviews and pictures are successfully uploaded.

4- devolpe more volunteering opportunities.

Chapter 2 System Analysis : 2.1. Information Acquiring

In our collaborative endeavor to conceptualize and develop a dynamic event platform, we critically assessed existing websites and identified noteworthy deficiencies. Take, for instance, SaudiEvents, a platform that boasts various functionalities like browsing, logging in, and ticketing. However, it lacks a fundamental user feedback mechanism. Similarly, Webook, while feature-rich, consistently grapples with performance delays. In response to these observed challenges, we set out to gather essential insights and strategically incorporated missing elements to create a high-performance, user-friendly platform.

To further enrich the user experience and broaden our audience, we made deliberate decisions to include volunteers and event organizers as integral stakeholders. Our envisioned additions encompass the facilitation of posting volunteering opportunities, implementing a robust user feedback system, and streamlining the volunteering application process. These thoughtful enhancements aim not only to rectify the shortcomings in existing event platforms but also to foster community engagement and create a comprehensive, interactive space for both event-goers and organizers.

CHAPTER 2
SYSTEM ANALYSIS :
REQUIREMENTS SPECIFICATION

Functional Requirements

1- Browse and Filter:

User Requirement:

1- The user shall be able to browse and search for content based on specified criteria.

System Requirements:

1.1- The system shall be able to allow visitors to browse and search for events and the places in the little Asia without needing to log in.

1.2- The system shall be able to filtering options, allowing users to find information on various categories such as restaurants, cafes, booths, events, etc.

Functional Requirements

2- Register:

User Requirement:

2- The user shall be able to create a new account as a user or an organizer.

System Requirements:

2.1- The system shall check its constraints: Saudi number, alphabetic name, at least 8 characters long password with upper and lower case, and correct email domain.

2.2- The system shall verify whether the user is an organizer or a regular user.

2.3- The system shall validate user input whether it exists or not.

2.4- The system shall verify the number by sending a message and validate it.

Functional Requierments

3- User Log in and log out:

User Requirement:

3- The user shall be able to log in and out.

System Requirement:

3.1-The system shall validate user input whether it exists or not.

3.2- The system shall terminate the user's session if the user logged out.

Functional Requierments

4- Post Volunteering Opportunities:

User Requirement:

4- Organizers shall be able to post volunteering opportunities.

System Requirements:

4.1- The system shall allow the organizers to post new volunteering opportunities with specific date and time.

Functional requierments

5- Post events:

User Requirement:

5- The organizers shall be able to add events.

System Requirements:

5.1- The system shall allow the organizer to add events with specific end date.

5.2- The system shall delete the events when its date expired

Functional Requierments

6- Update Profile:

User Requirement:

6- Users shall be able to update their profile information.

System Requirements:

6.1- The system shall validate the updated profile information.

Functional Requierments

7- Book a Ticket:

User Requirement:

7- Users shall be able to view all existing events and book tickets.

System Requirements:

7.2- The system shall allow the users to receive more than one ticket with specific expiry date.

7.3- The system shall print tickets, and display them to the visitor.

7.4- The system shall show the user all his reservations.

Functional Requierments

8- Share feedbacks:

User Requirement:

8- Users shall be able to provide feedback & share photos of events.

System Requirement:

8.1- The system shall allow all opinions, and evaluations to be displayed and viewed.

8.2- The system shall give the ability for users to upload photos to the system.

8.3- The system shall support common Image file formats (png, jpeg,...).

Functional Requierments

9- Apply to Volunteer:

User Requirement:

9- The user shall be able to apply to volunteer.

System Requirements:

9.1- The system shall be able to verify the accuracy of volunteer data and ensure compliance with volunteering conditions.

9.2- The system shall allow the organizers to accept and reject volunteers.

Non-Functional Requierments

- **Security**

User account's information &payment methods should be protetced and secured by using a password to protect the user account .

- **Usability**

Because the application targets users of all ages, so the system must be easy to use so that all components of the application can be identified without any trouble.

- **Performance**

Performance directly impacts user satisfaction and experience. Faster response times and efficient system behavior contribute to a more positive user experience.

- **Compatibility**

Specify the need for the system to be compatible with multiple web browsers (e.g., Chrome, Firefox, Safari, Edge) to ensure a consistent user experience across various platforms.

CHAPTER 3:
SYSTEM DESIGN:

TOOLS AND METHODOLOGY

USE CASE DIAGRAM

SCENARIOS

DFD MODEL

CLASS DIAGRAM

SEQUENCE DIAGRAMS

Tools and Methodology

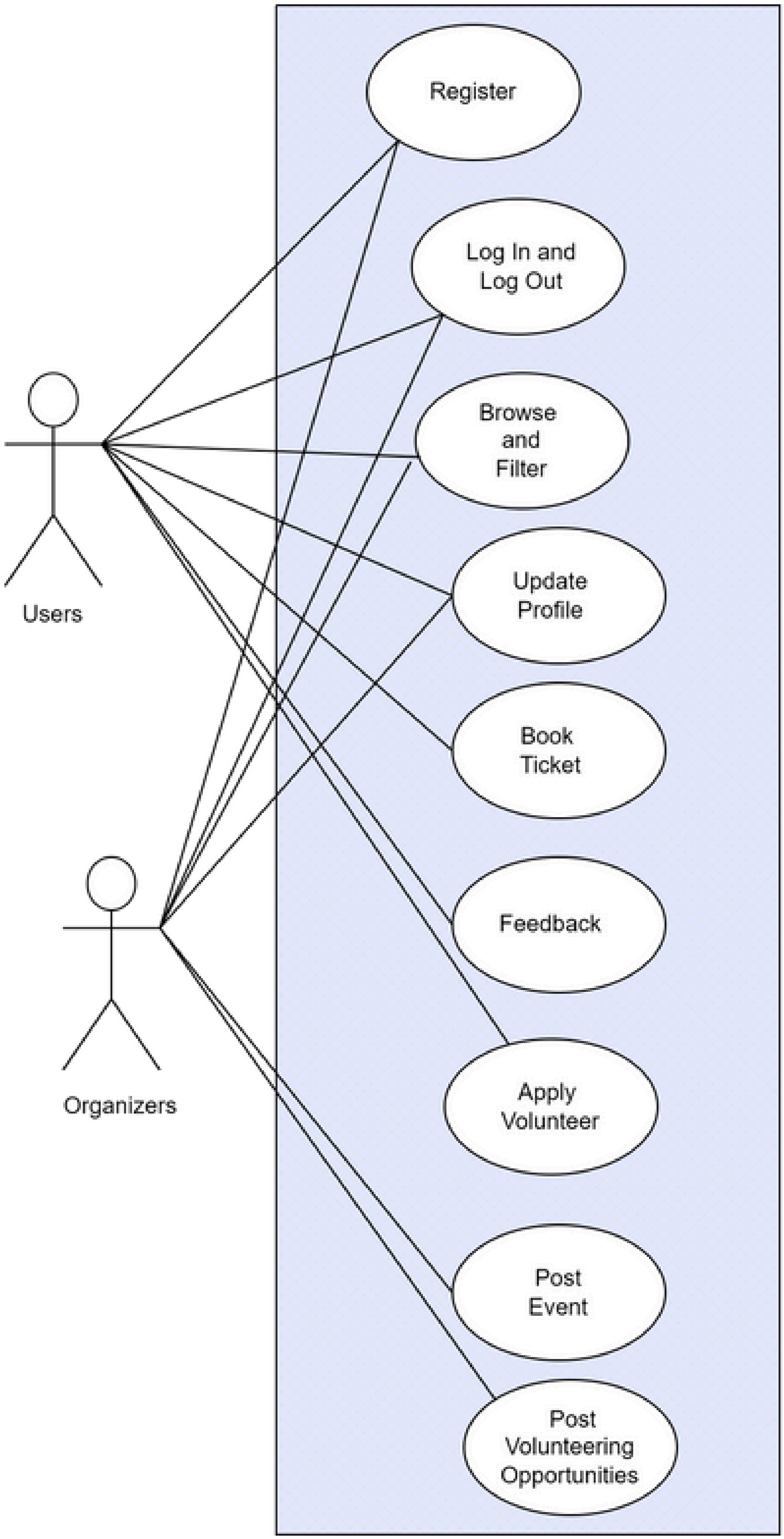
We used **Canva** to design the paper and some of the prototypes, and to write the requirements.

We used **Draw.io** to draw the use case diagram.

We used **Lucid** to create the DFD levels, and to draw the sequence diagram.

We used **Figma** to create and design the prototypes.

Use Case Diagram



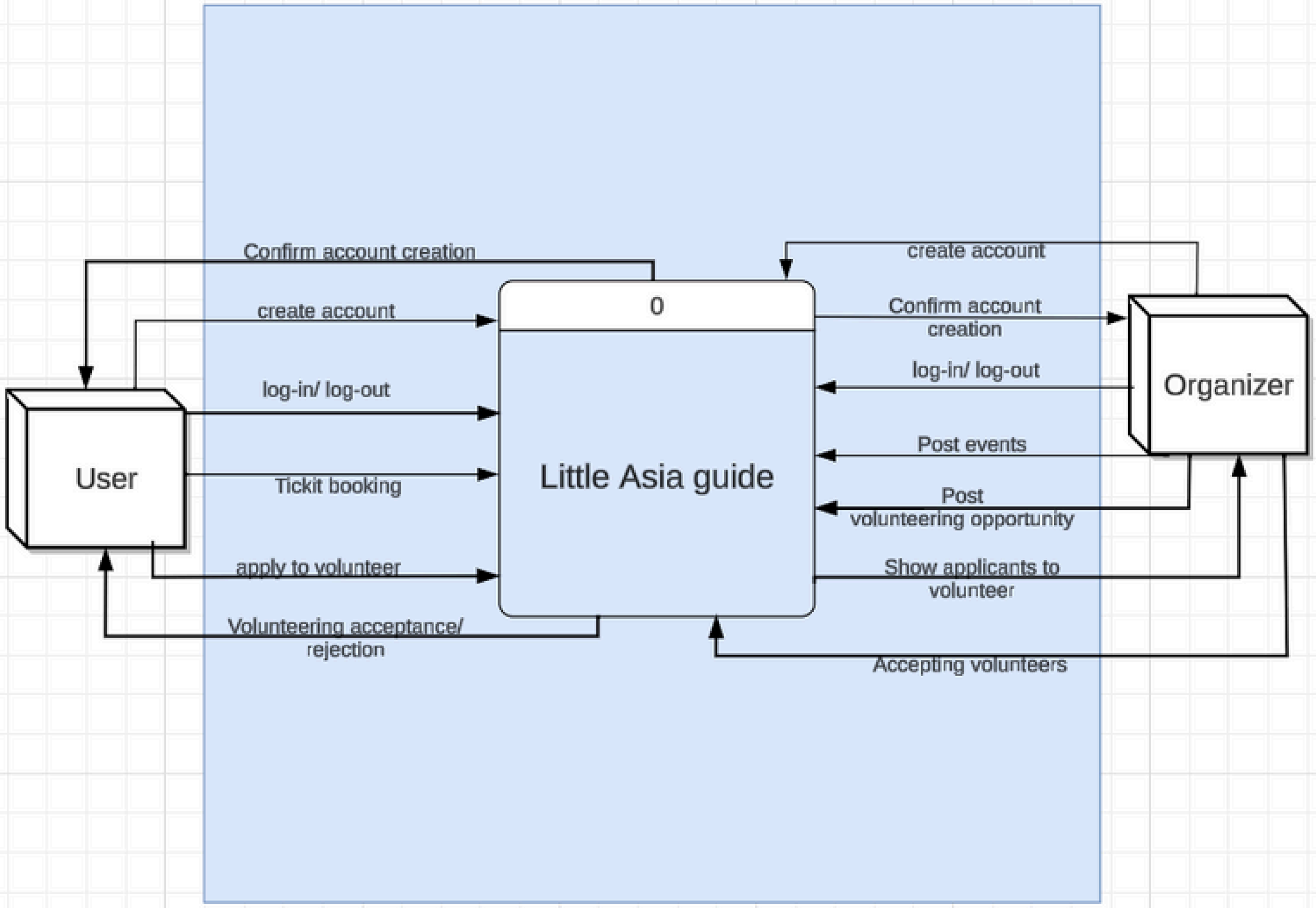
Use Case scenarios

	Post volunteering opportunity
Actors	User, Organizer
Description	• The organizer aims to post a new volunteering opportunity within the system. • The system provides a platform for organizers to create and manage volunteering opportunities. • The posting process involves entering specific details such as title, description, date, time, and the ability to accept or reject volunteers.
Data	**input Data**: • Organizer's login credentials. • Details of the new volunteering opportunity: title, description, date, time, skills required, maximum number of volunteers. • Submission of the opportunity posting form. • Selection of volunteers for acceptance or rejection. **Output Data**: • Confirmation message of successful posting. • Notification of accepted or rejected volunteers. • Error messages in case of technical issues.
Stimulus	• Navigating to the "Post Volunteering Opportunities" section. • Filling in the details of the new opportunity. • Submitting the form to post the opportunity. • Selecting volunteers for acceptance or rejection.
Response	• Validation of entered data. • Recording the new volunteering opportunity in the system. • Sending a confirmation message to the organizer. • Updating the status of accepted and rejected volunteers. • Error messages in case of technical issues.

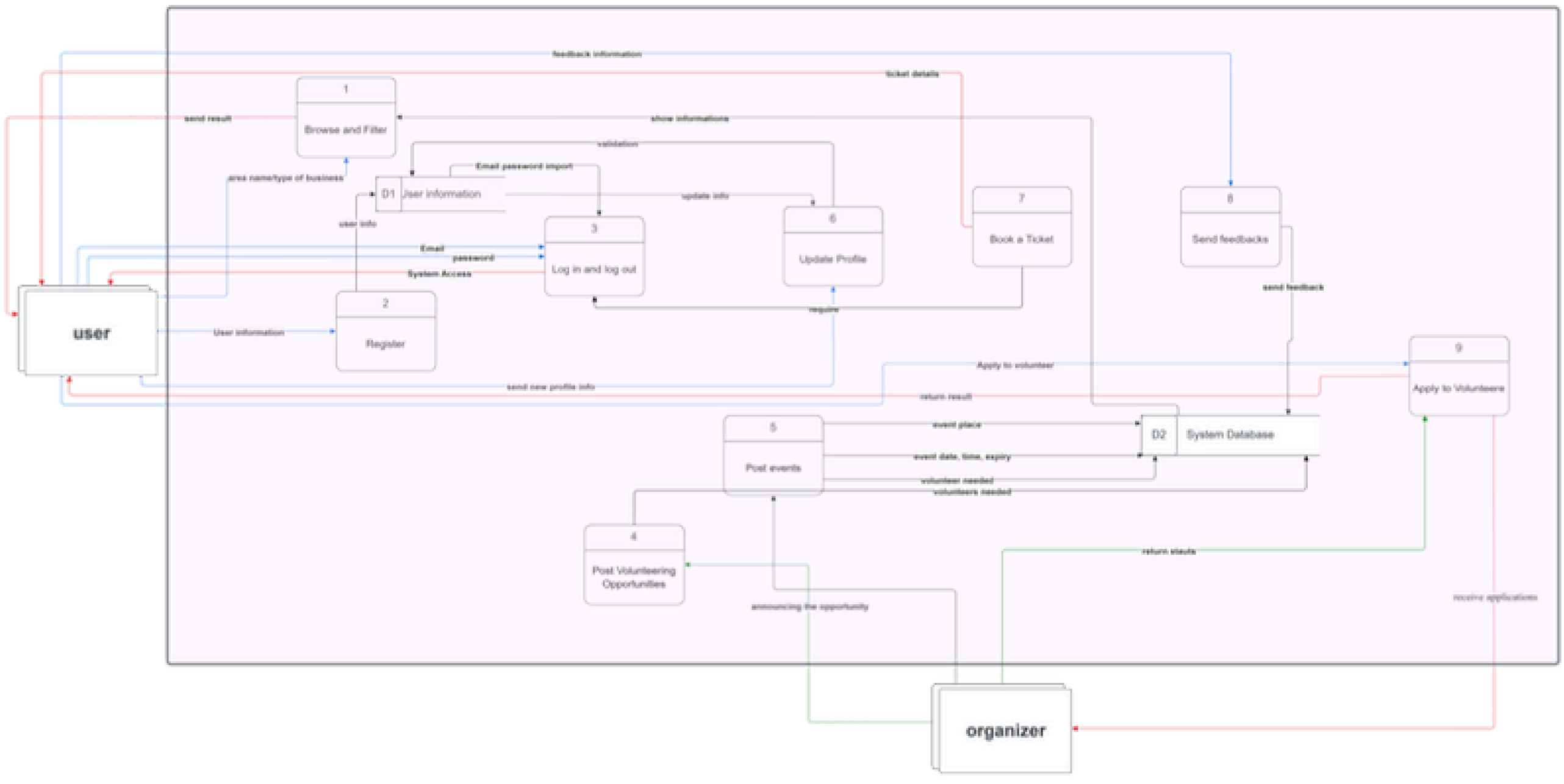
Use Case scenarios

	apply to volunteer
Actors	User, Organizer
Description	• The volunteer wishes to apply for a specific volunteer opportunity within the system. • The system provides a platform for users to explore and apply for various volunteering opportunities. • The application process involves verifying volunteer data and ensuring compliance with specified volunteering conditions.
Data	**Input Data** : • Volunteer's login credentials. • Personal information such as name, contact details, skills, and availability. • Selected volunteer opportunity. • Confirmation of personal information. • Agreement to comply with volunteering conditions. **Output Data:** • Confirmation message of successful application. • Notification of inaccuracies in volunteer data if any. • Notification of non-compliance with specified volunteering conditions if applicable.
Stimulus	• Clicking on the "Apply" button for a specific volunteer opportunity. • Confirming personal information. • Agreeing to comply with volunteering conditions.
Response	• Verification of volunteer data accuracy. • Confirmation of successful application. • Notification of inaccuracies in volunteer data. • Notification of non-compliance with specified volunteering conditions. • Error messages in case of technical issues.

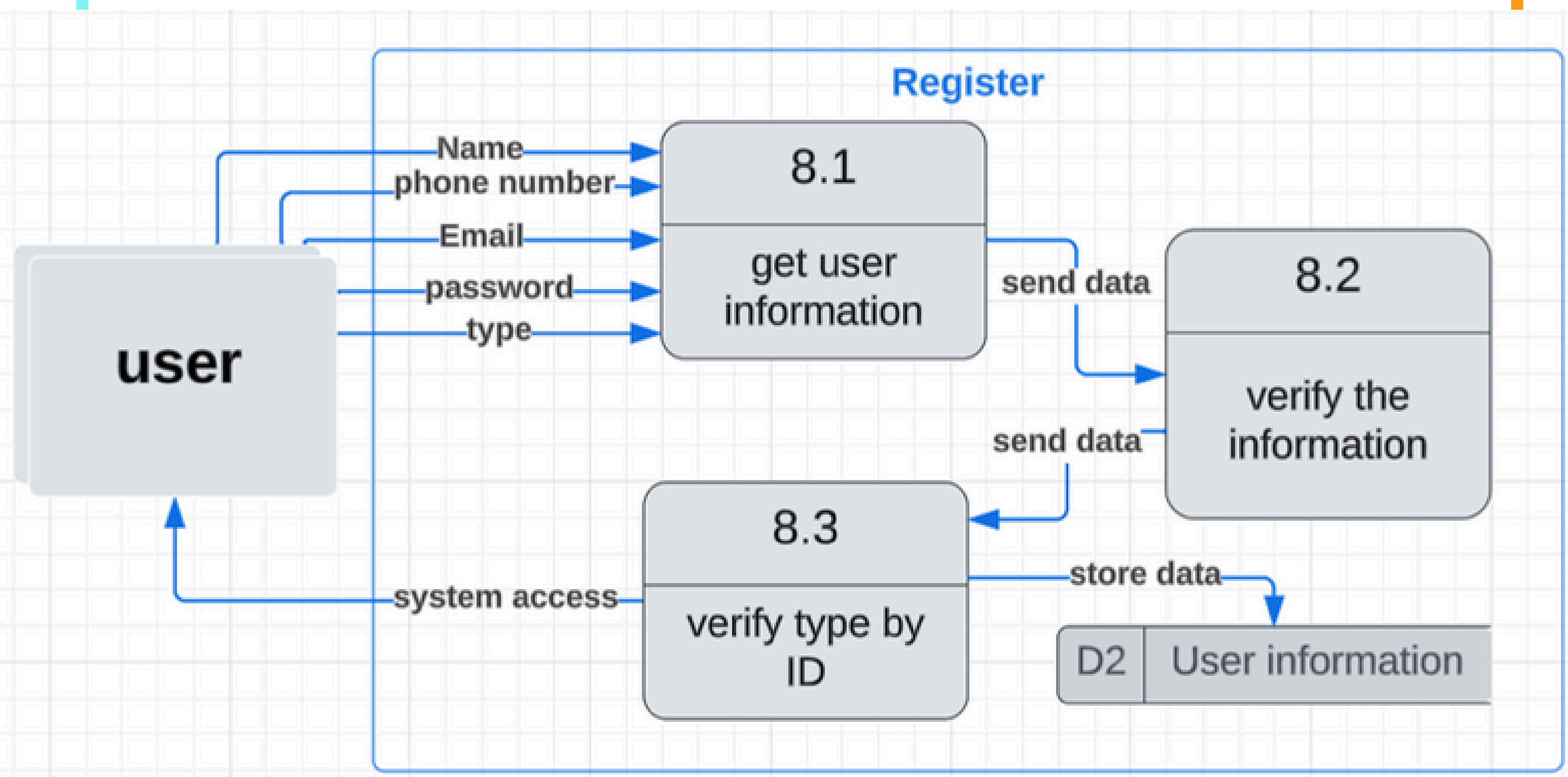
Context Flow Diagram (Level 0)



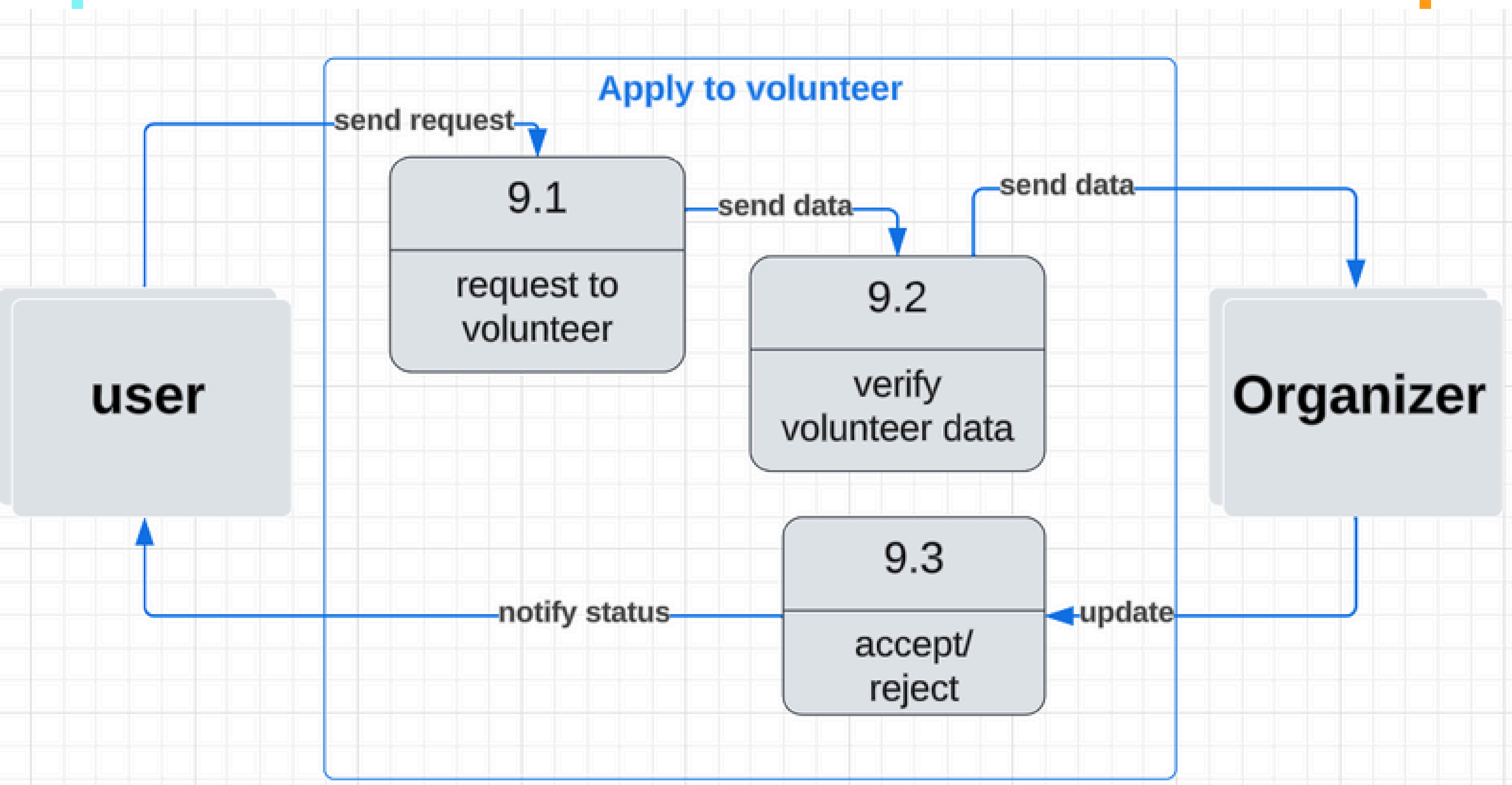
DFD (Level 1)


feedback information
ticket details
send result
1
Browse and Filter
show informations
validation
Email password import
area name/type of business
D1
User information
update info
user info
3
Log in and log out
6
Update Profile
7
Book a Ticket
8
Send feedbacks
Email
password
System Access
send feedback
user
User information
2
Register
requires
9
Apply to volunteer
Apply to Volunteers
send new profile info
return result
5
Post events
event place
event date, time, expiry
volunteer needed
volunteers needed
D2
System Database
4
Post Volunteering Opportunities
return status
announcing the opportunity
receive applications
organizer

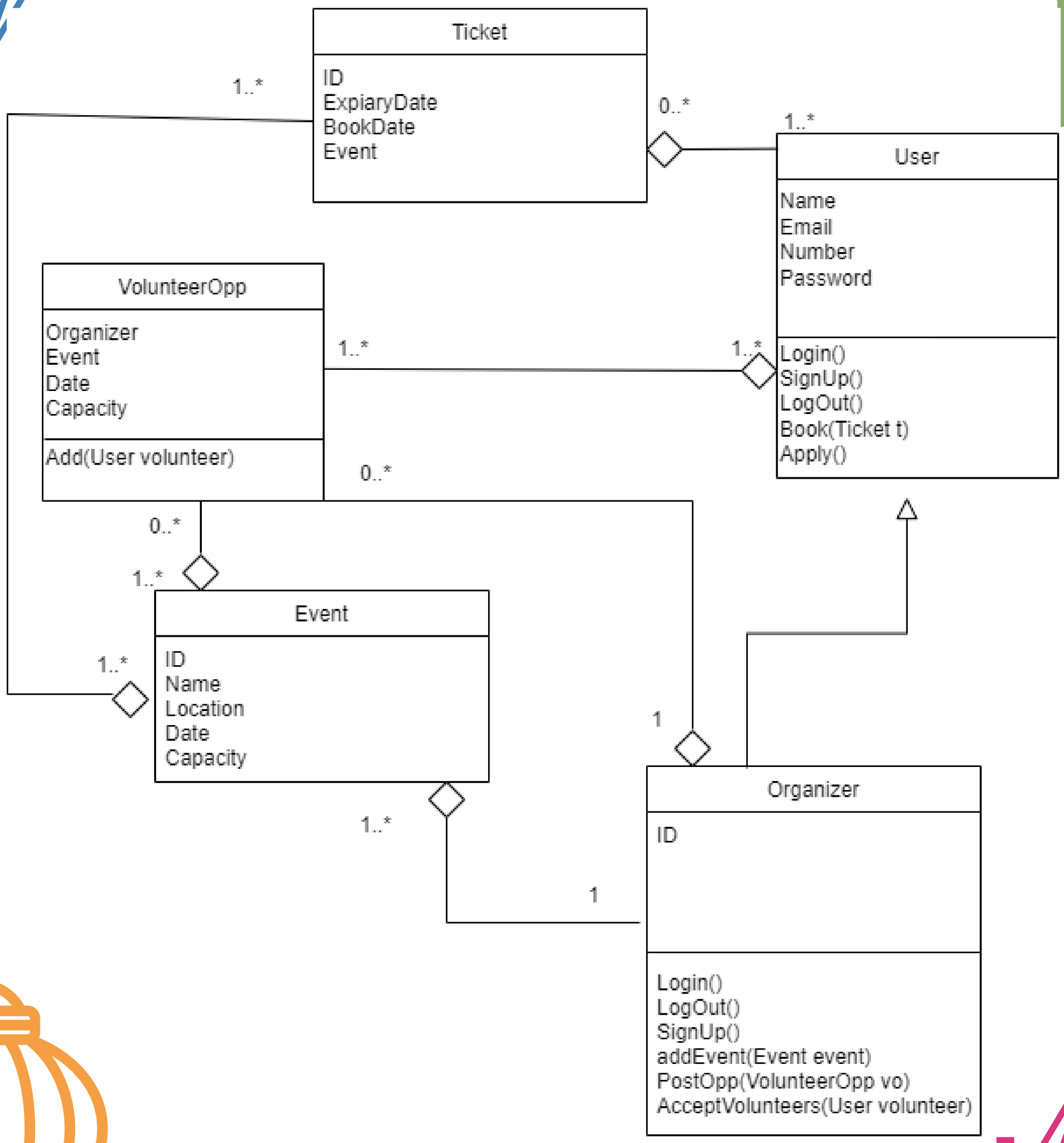
Child Diagram (Level 2)



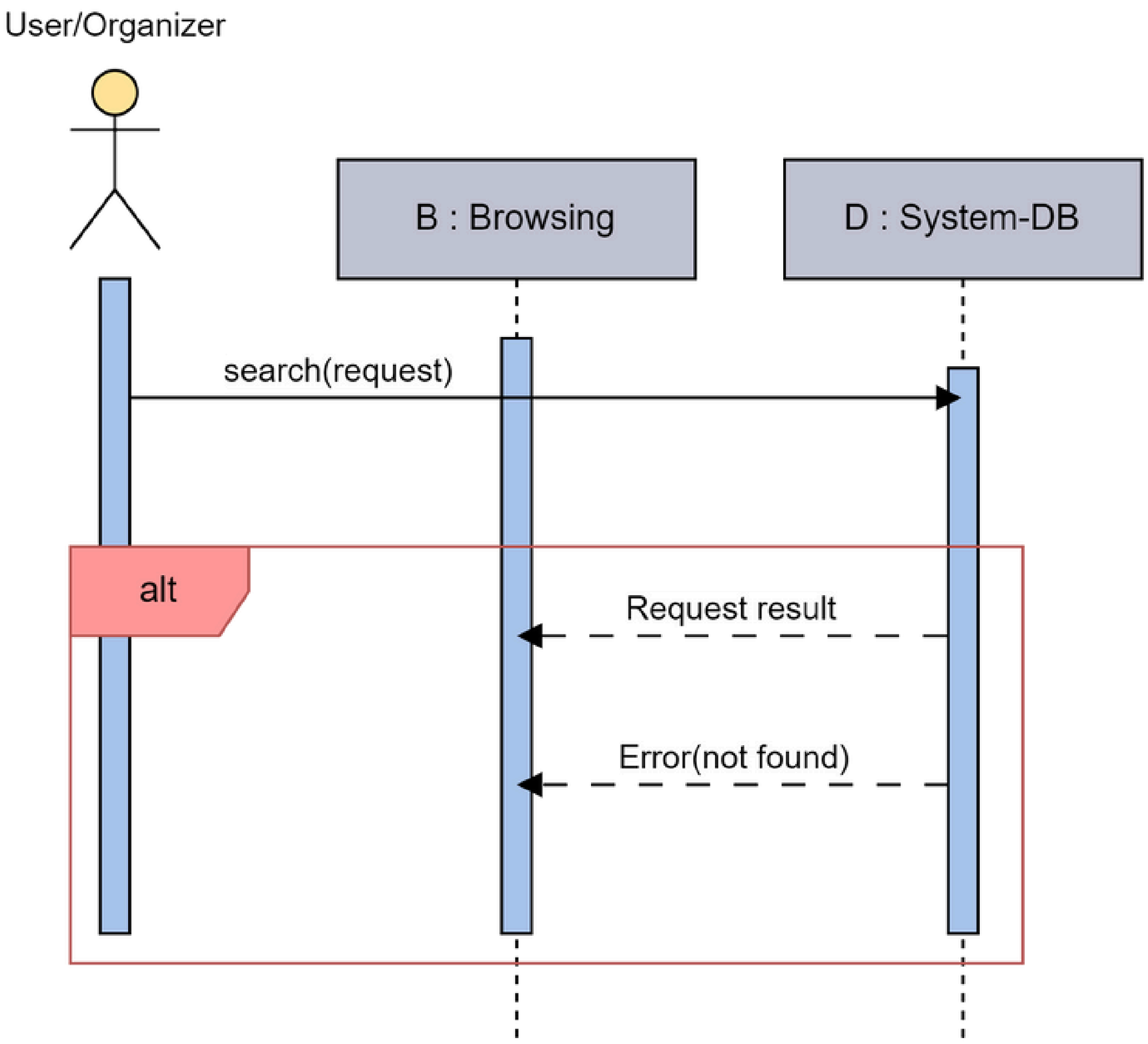
Child Diagram (Level 2)



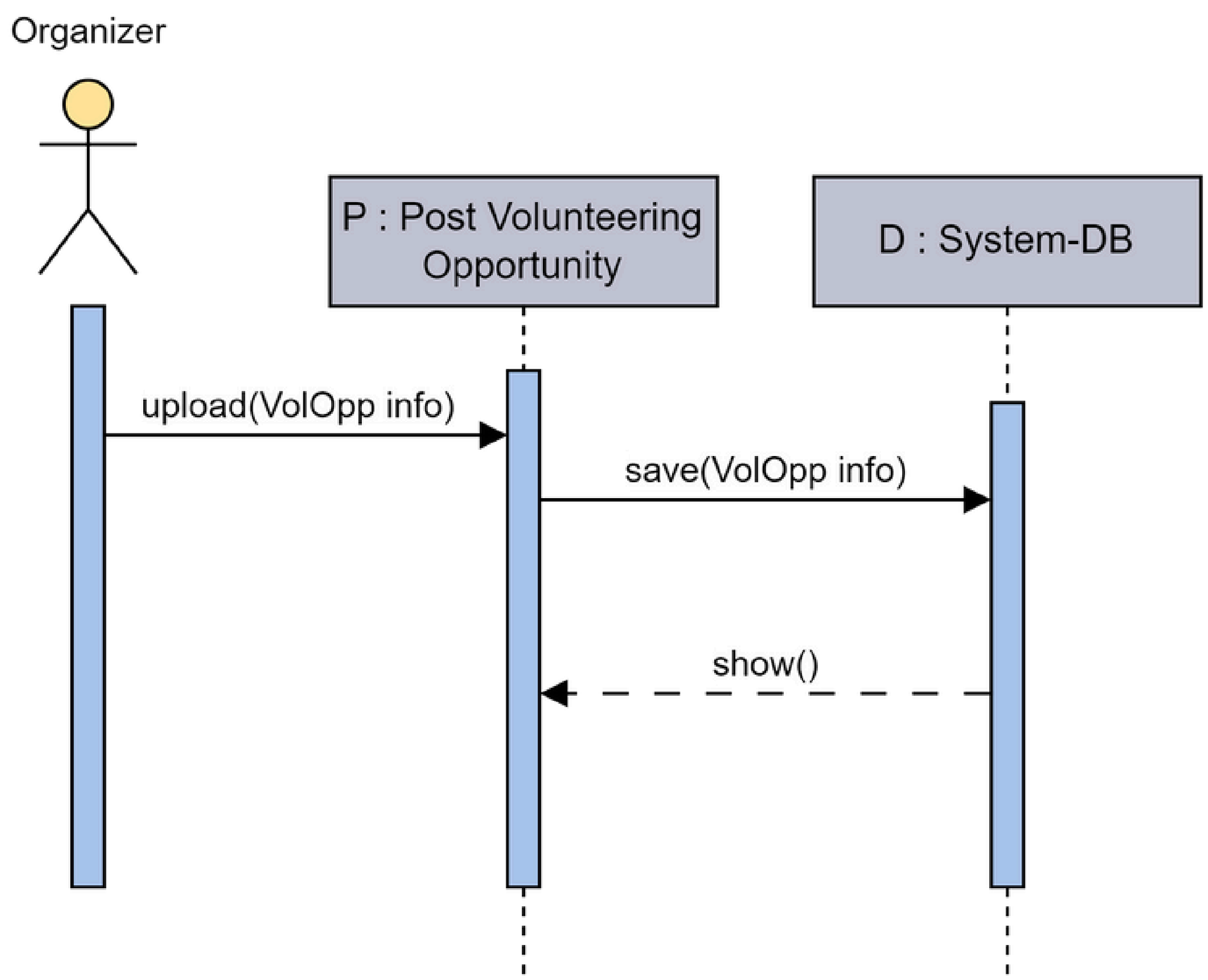
Class Diagram



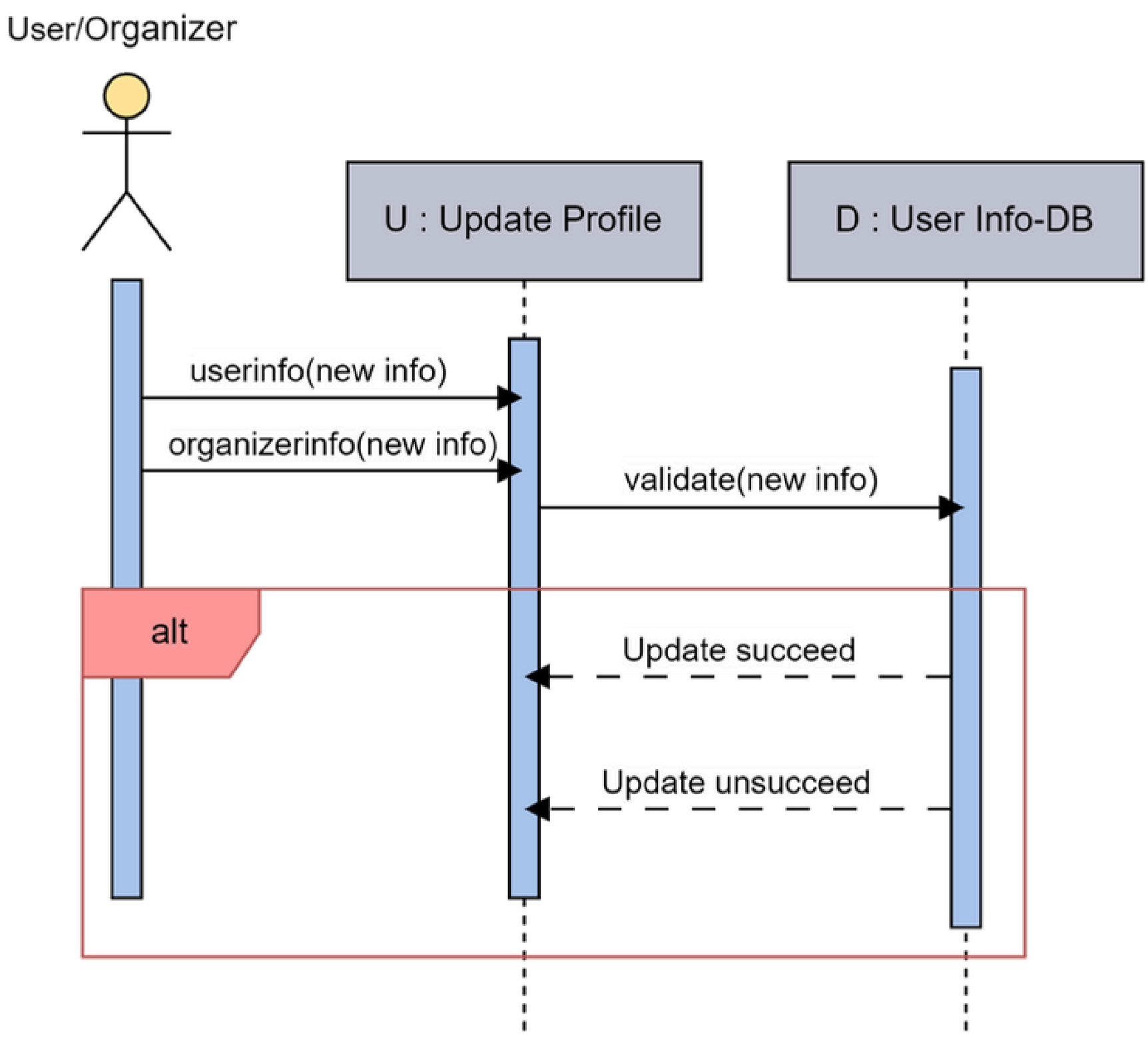
Sequence Diagram for Browse and Filter



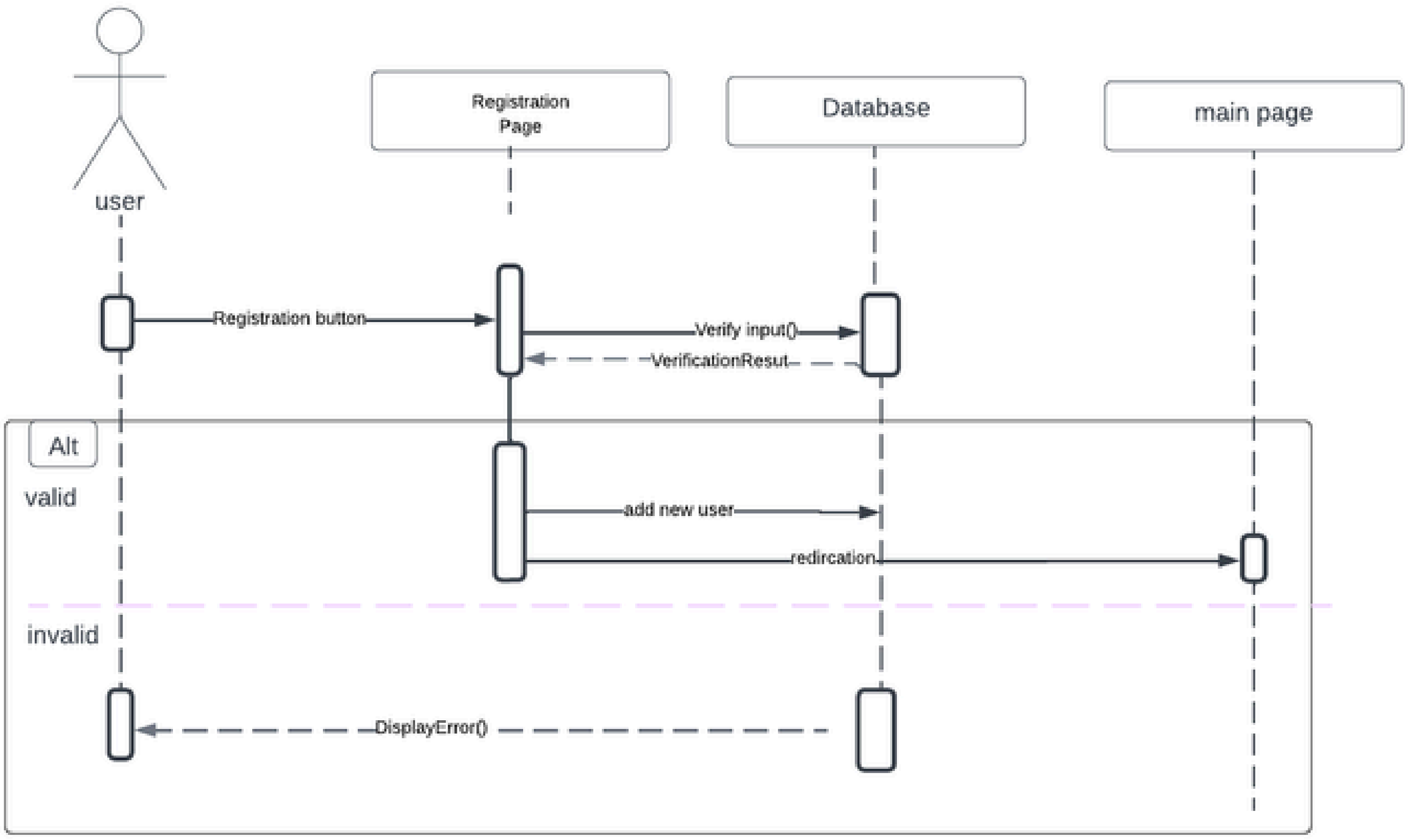
Sequence Diagram for Post Volunteering Opportunities



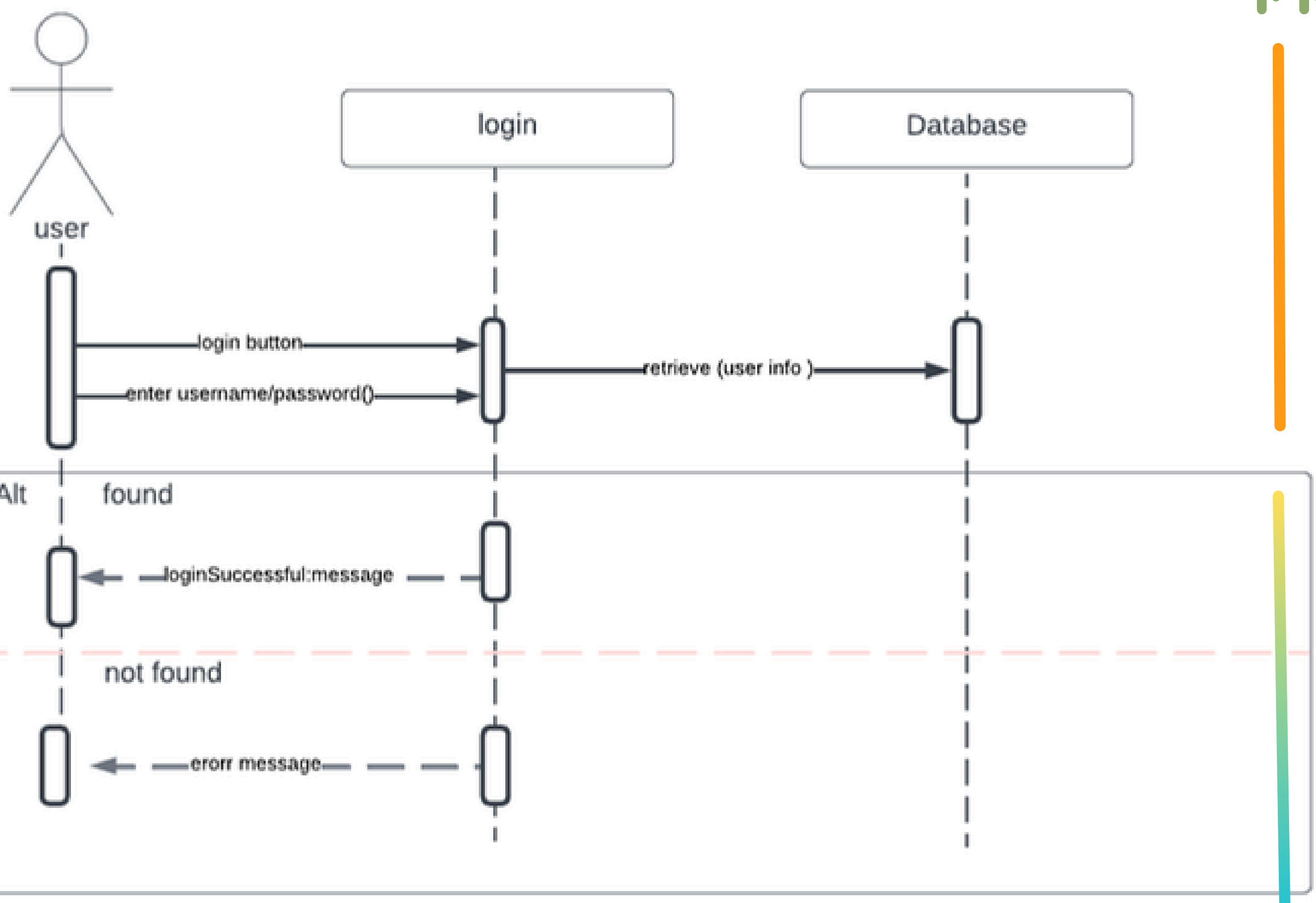
Sequence Diagram for Update Profile



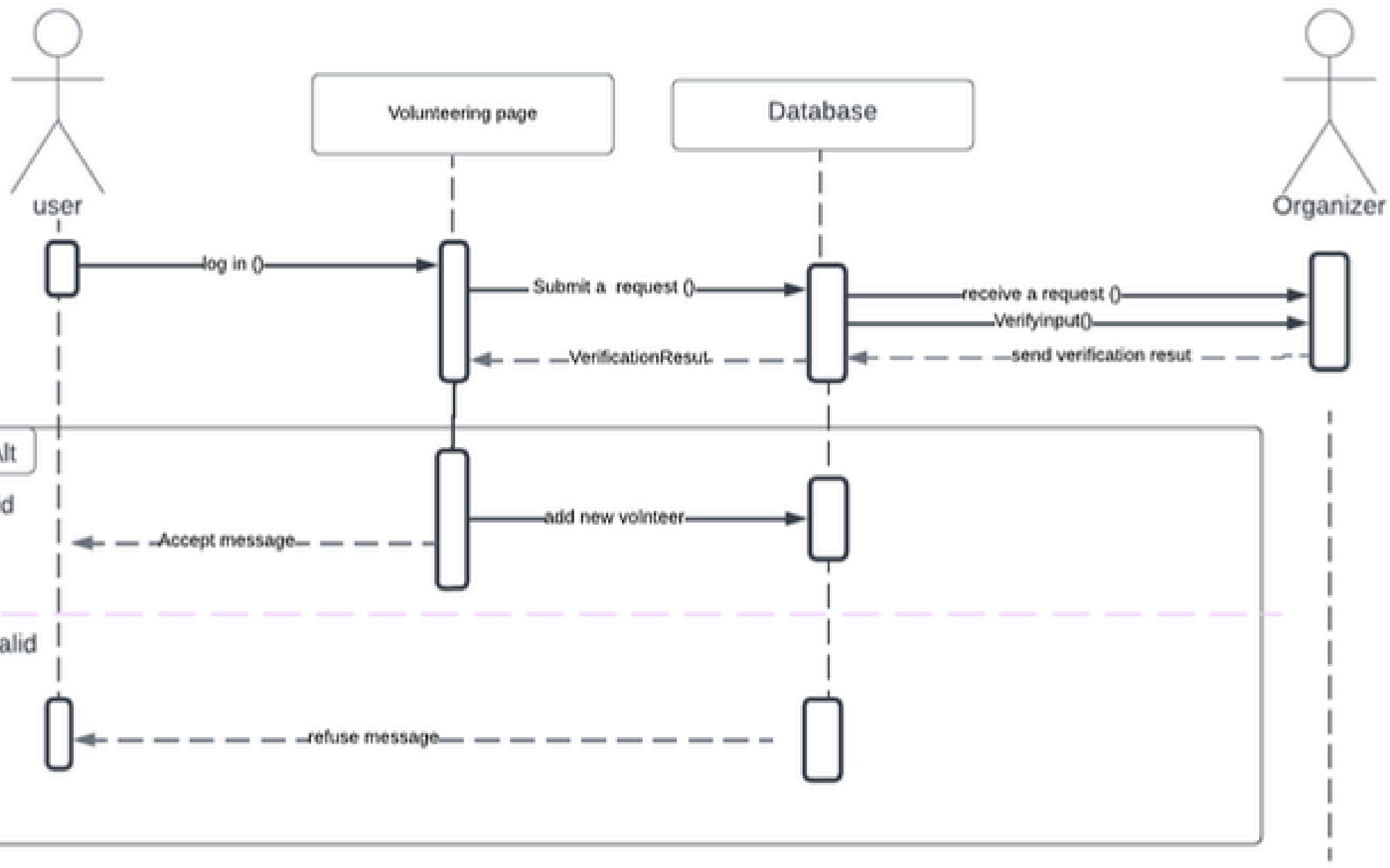
Sequence Diagram for Rigester



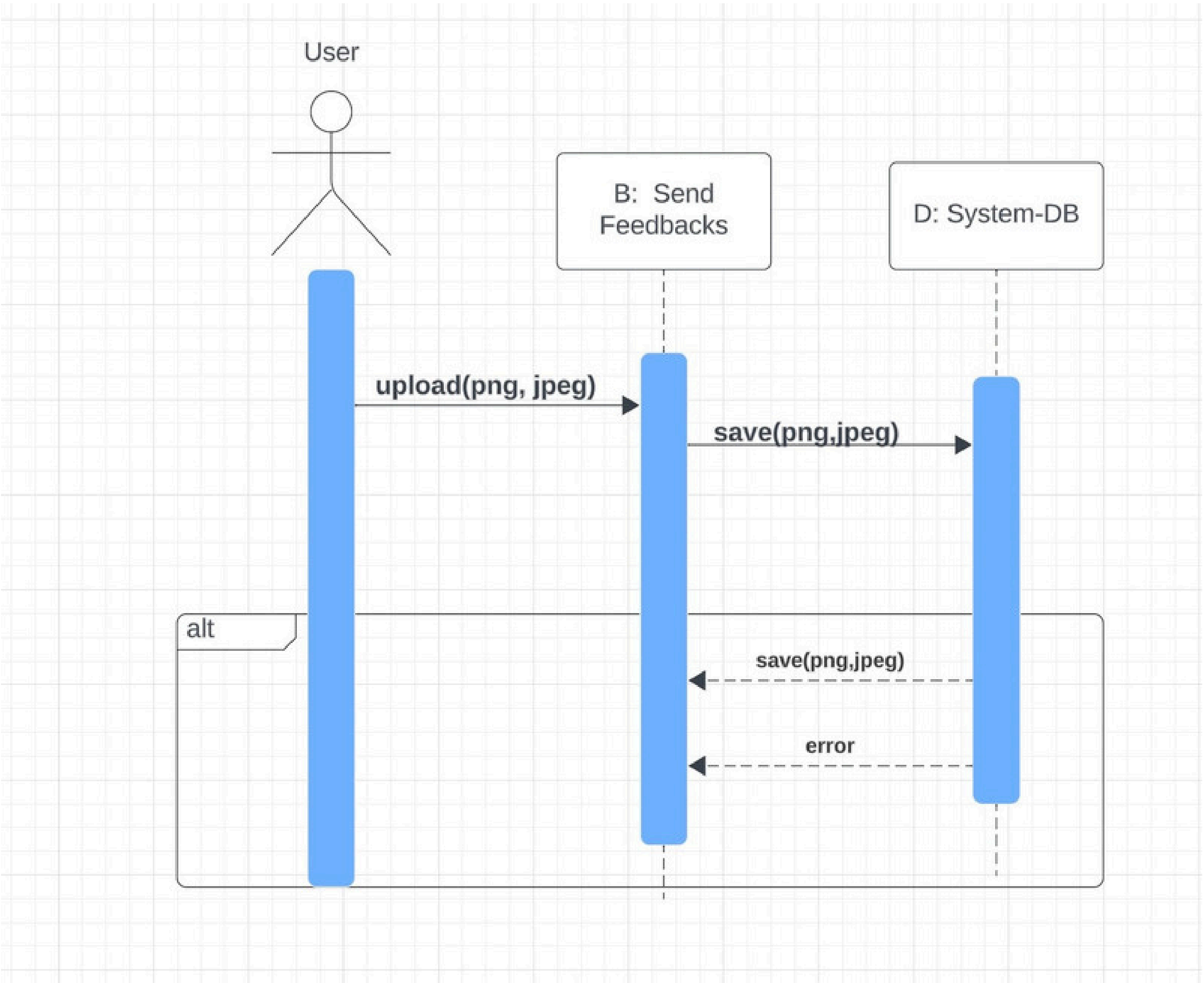
Sequence Diagram for User Log in and log out:



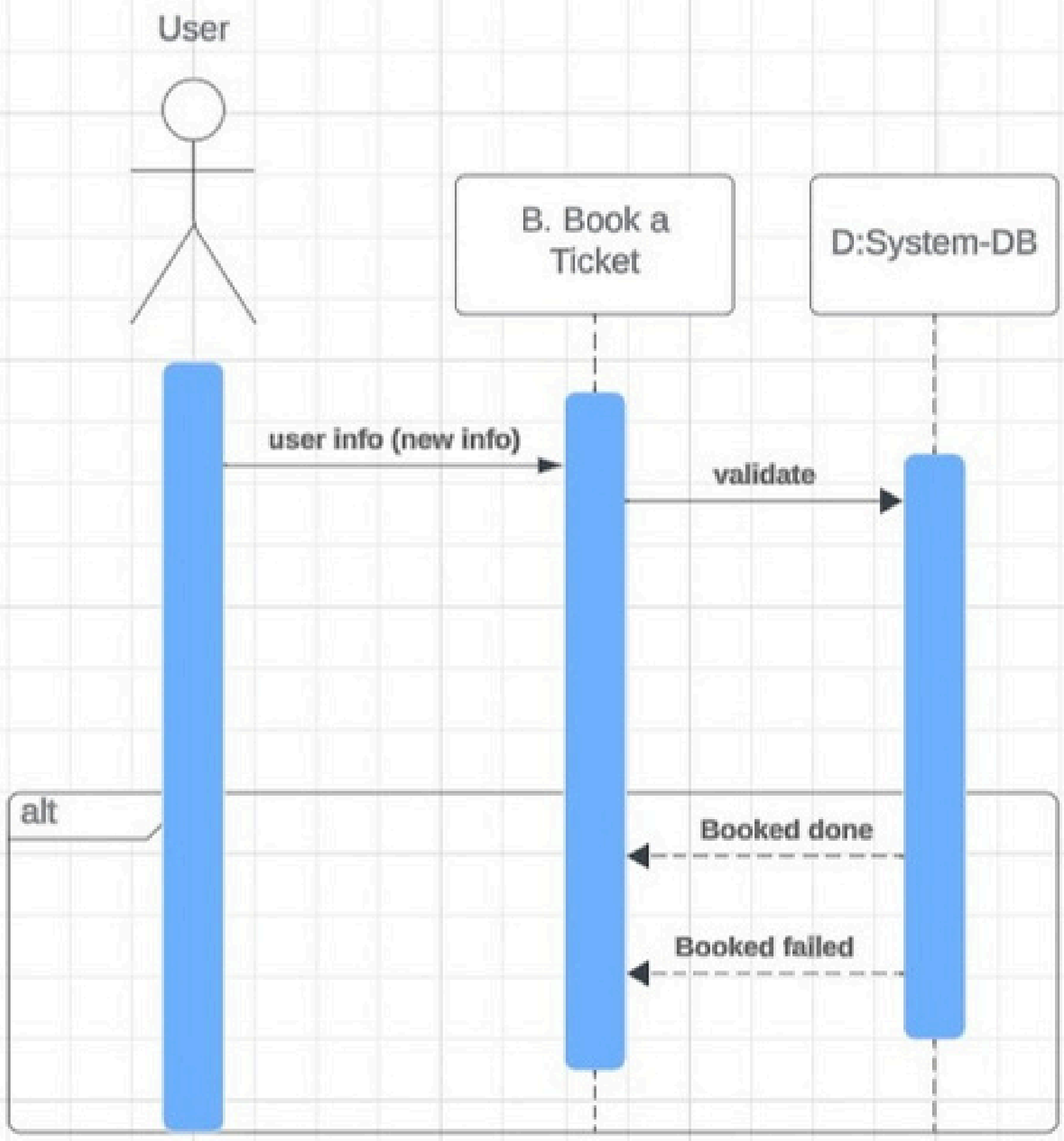
Sequence Diagram for apply to volunteer



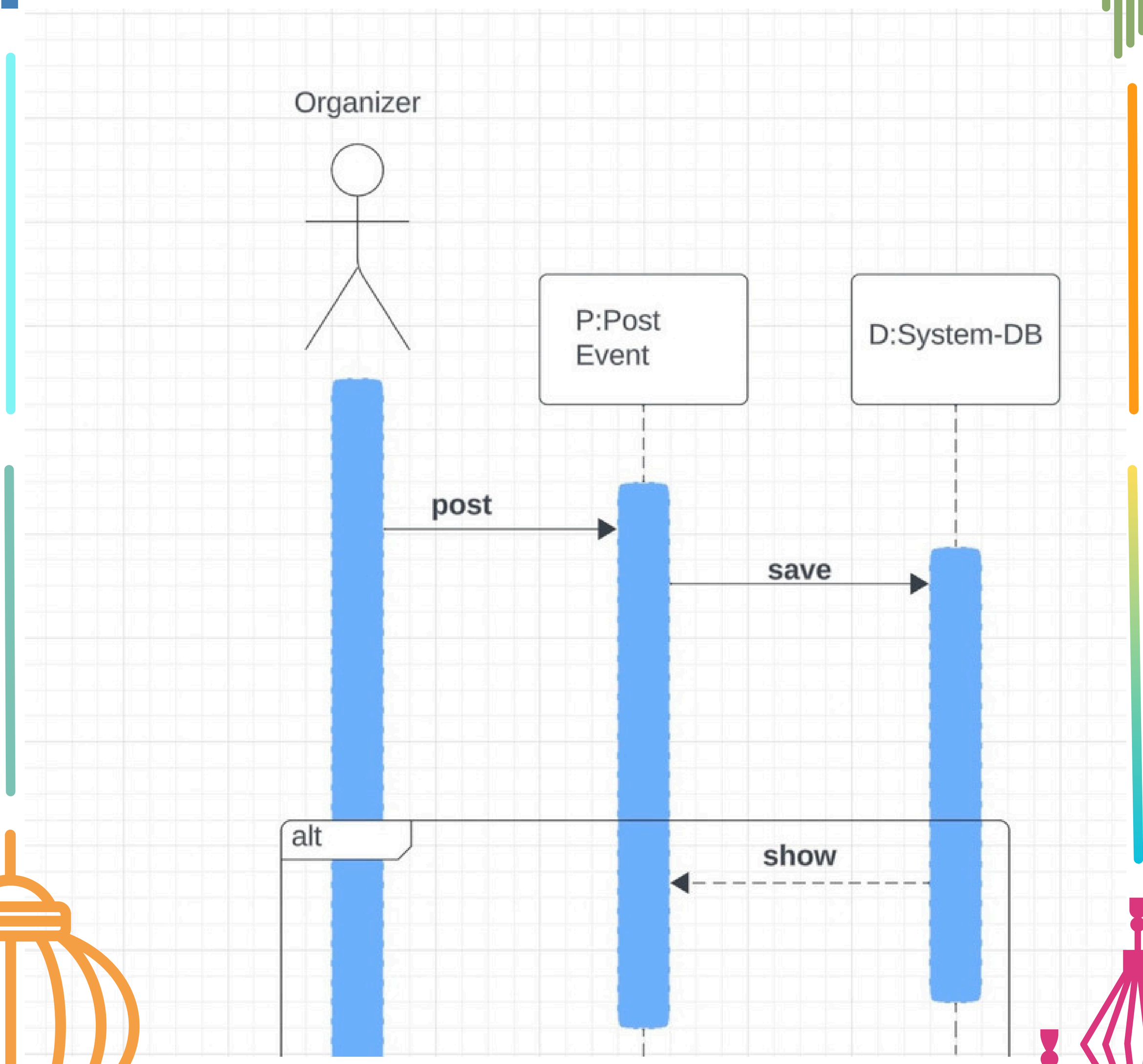
Sequence Diagram for send feedbacks



Sequence Diagram for book a ticket

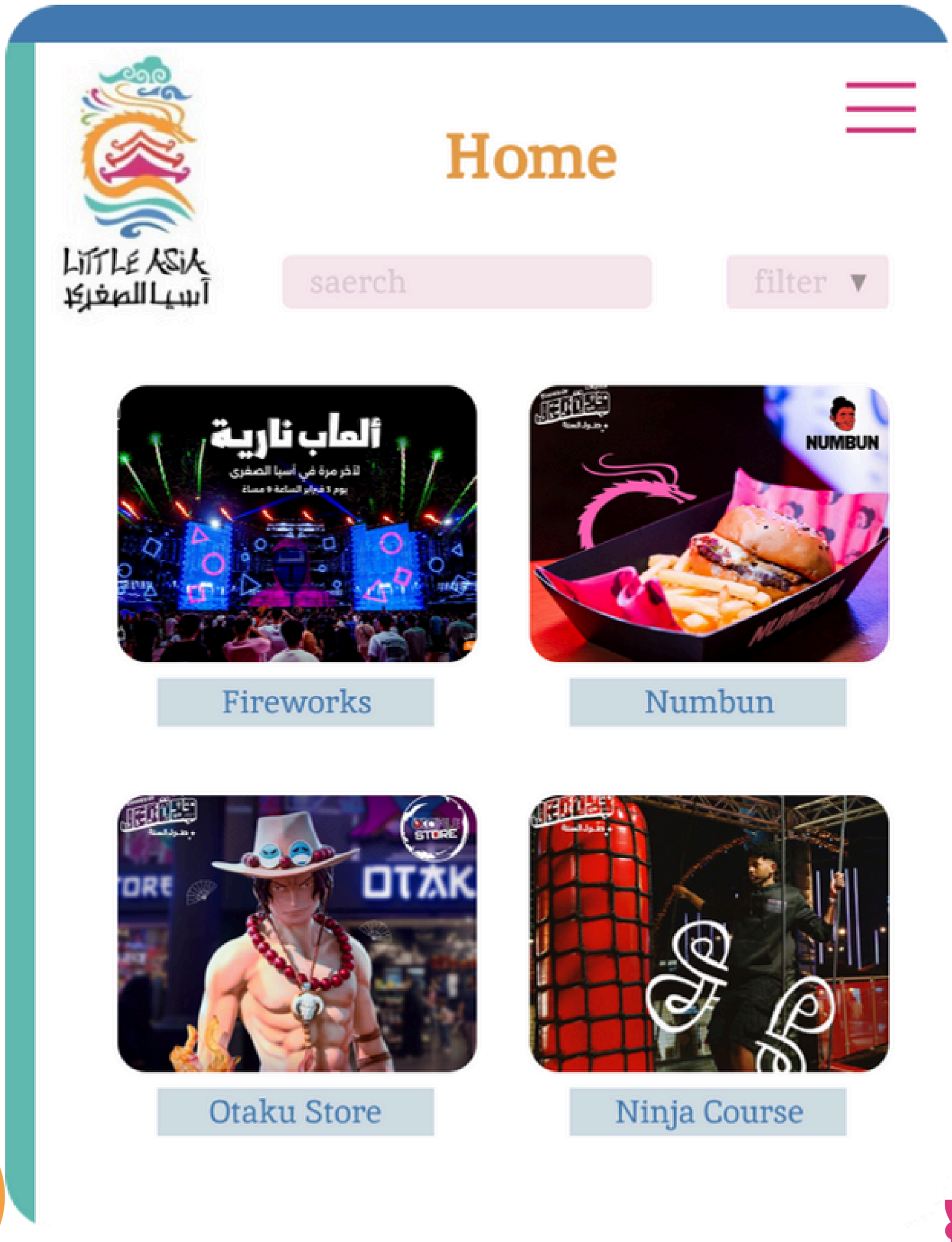


Sequence Diagram for post event

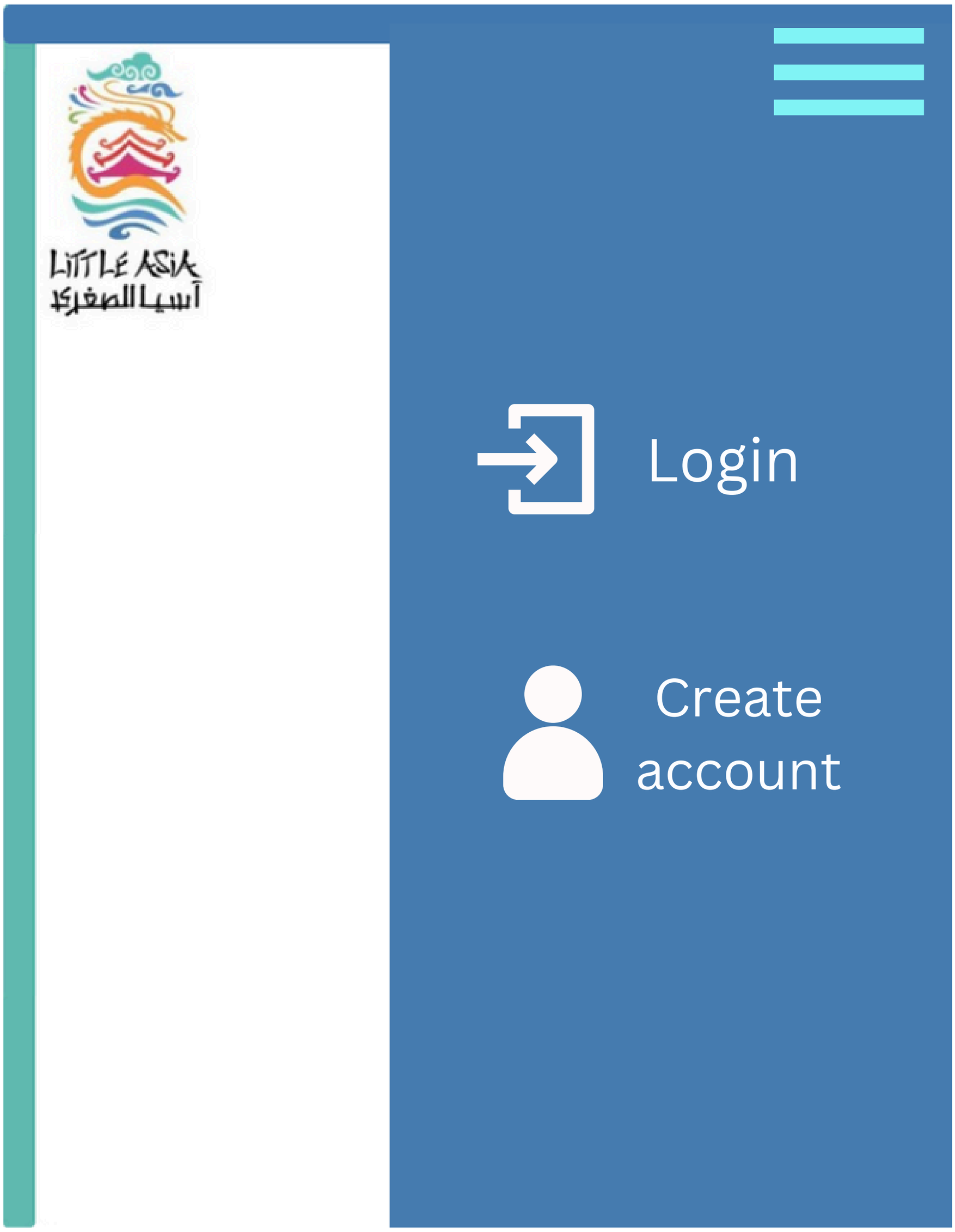


CHAPTER 4: PROTOTYPING: GUIS

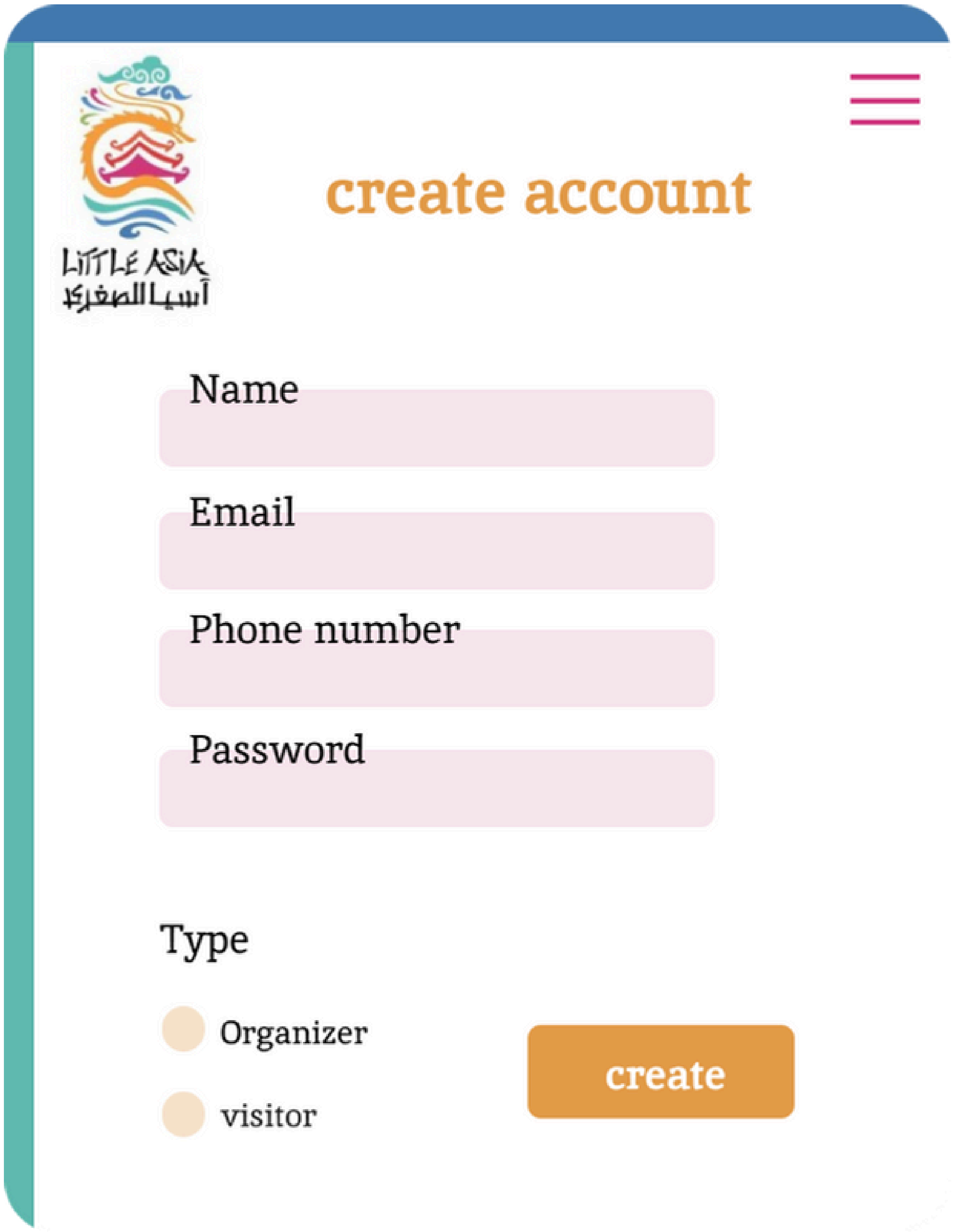
1. Browse and Filter Prototype



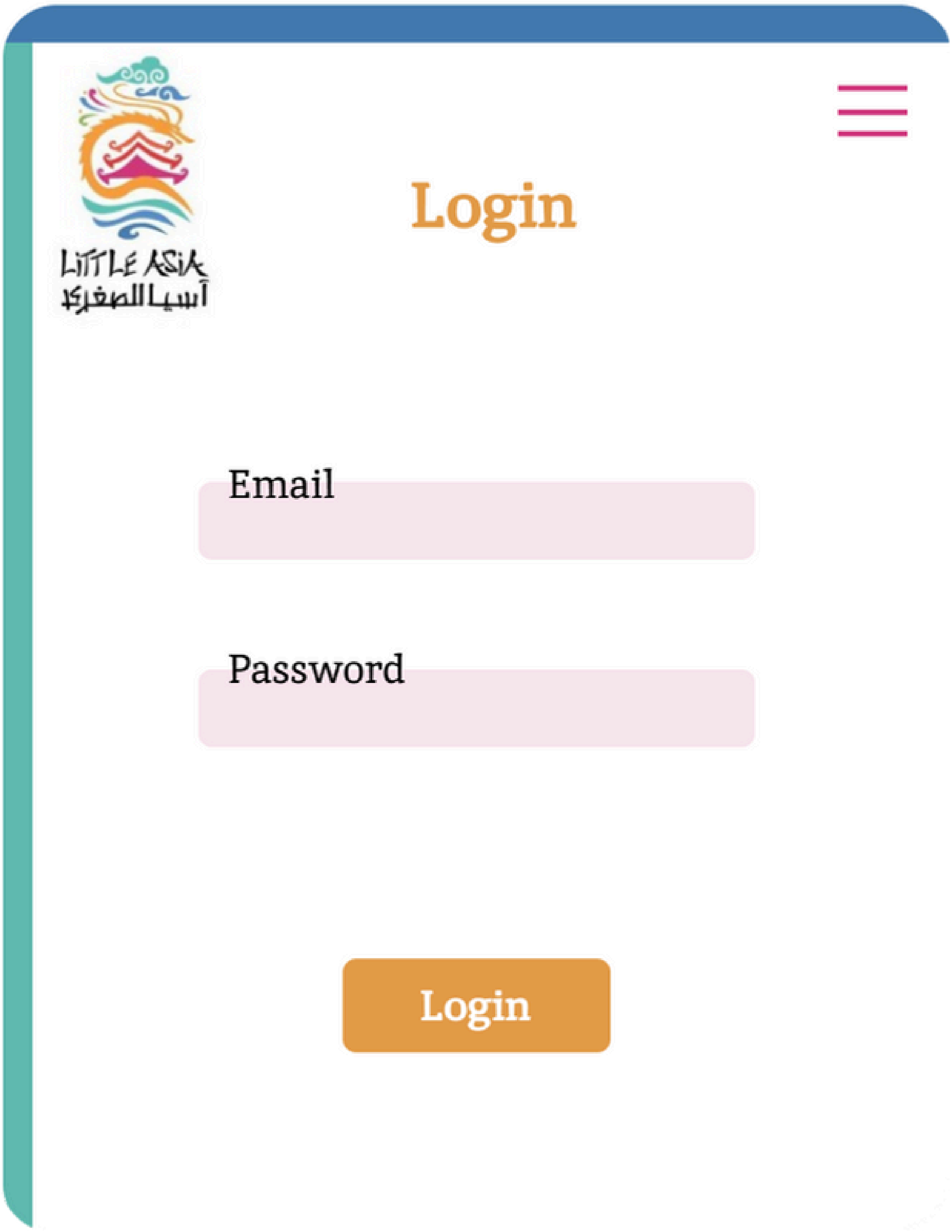
2. register/login Prototype



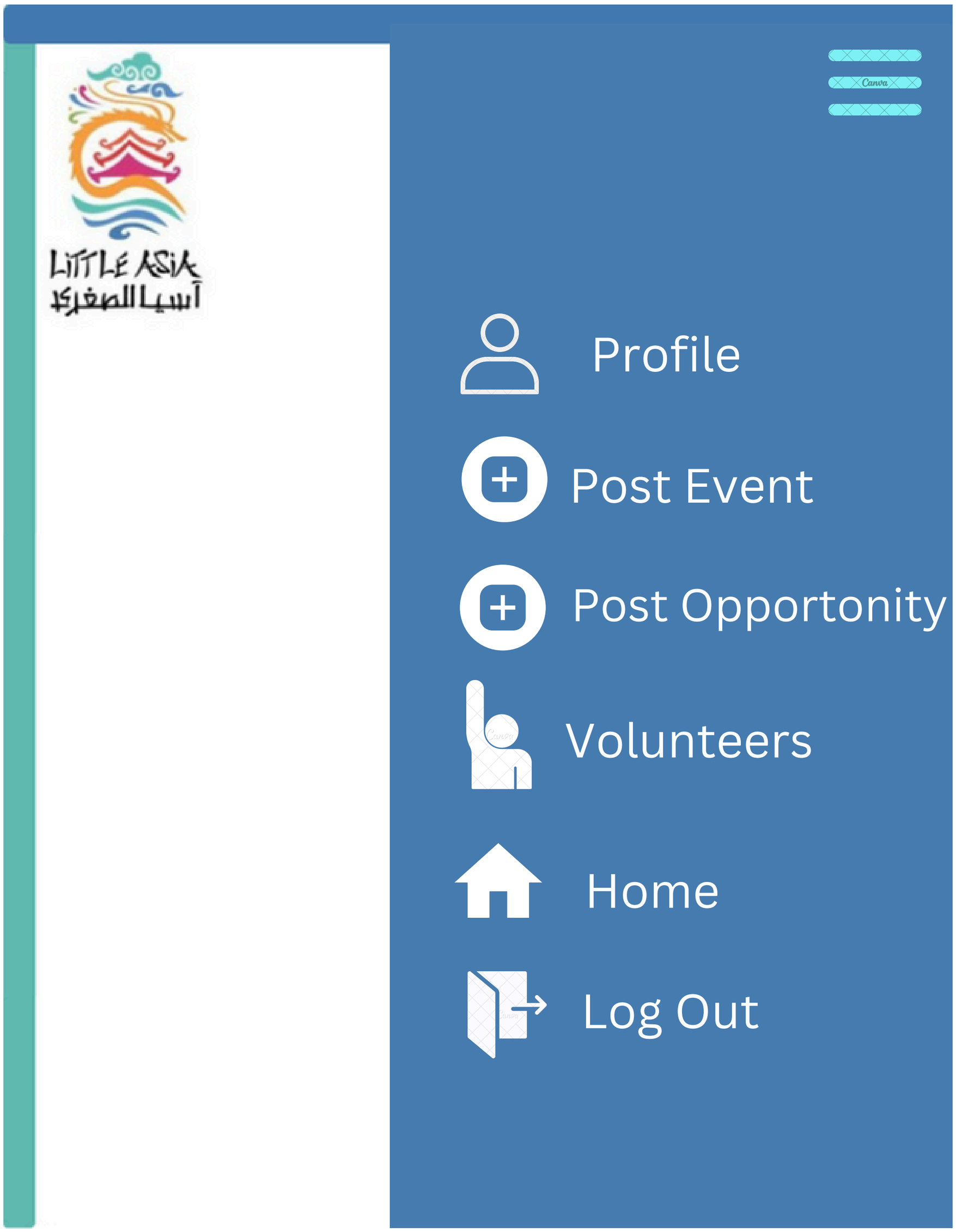
3. Create Account Prototype



4. Login Prototype



5. Organizer page Prototype



5. User page Prototype

6- profile prototype

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Ali Alzahrani

Ali@gmail.com

059283072

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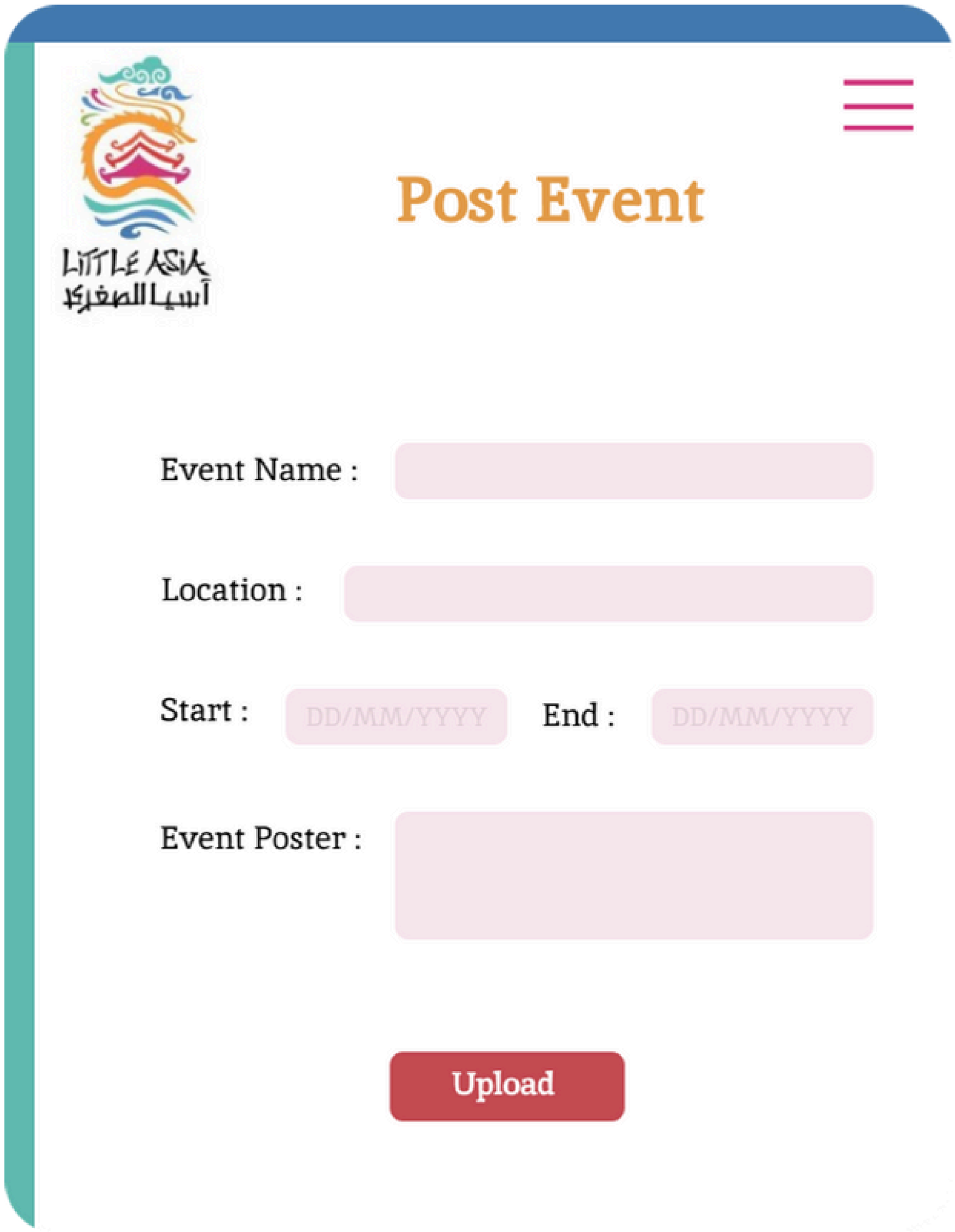
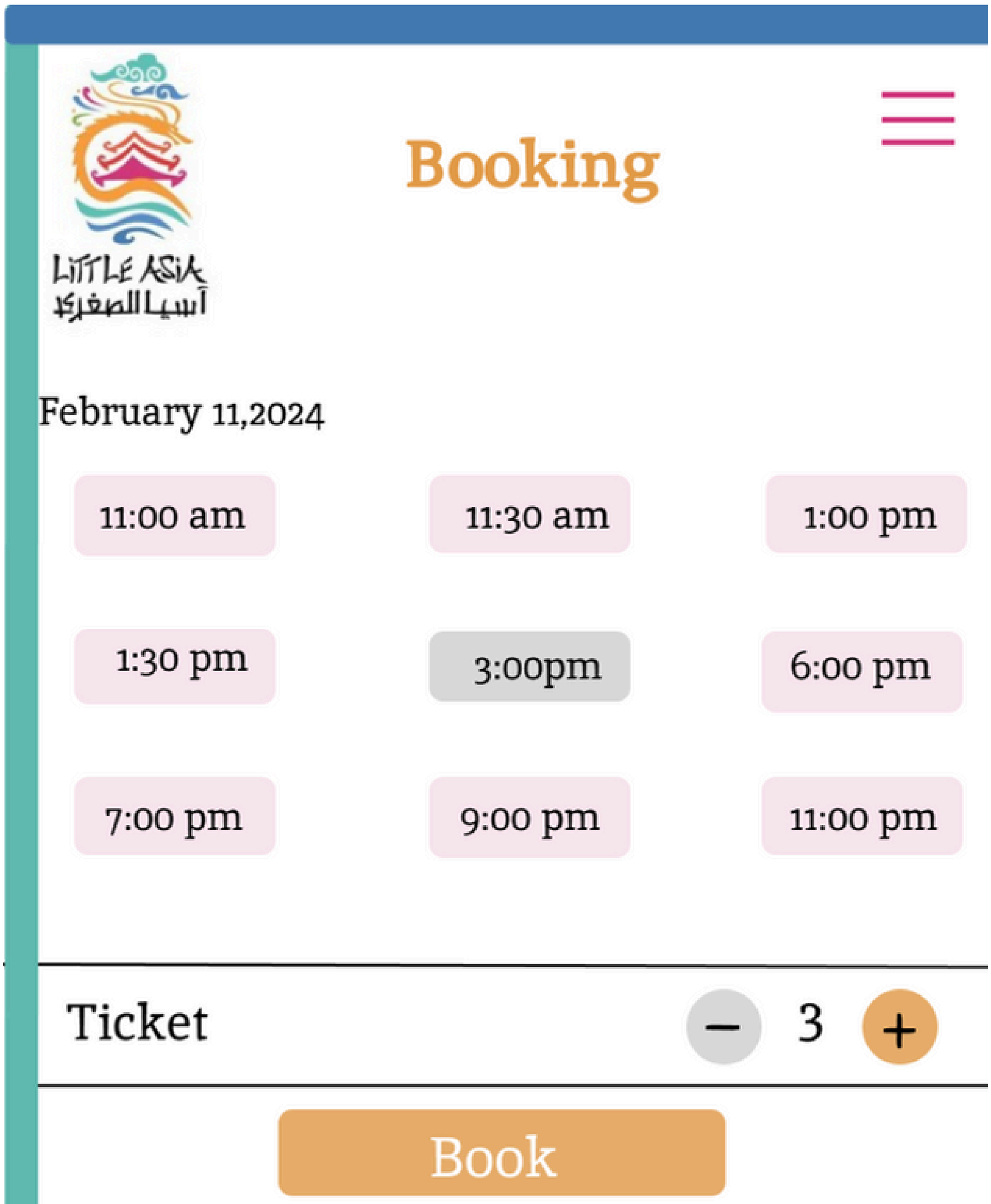
7. Post Events Prototype



8. Booking Prototype



9. Tickets Prototype

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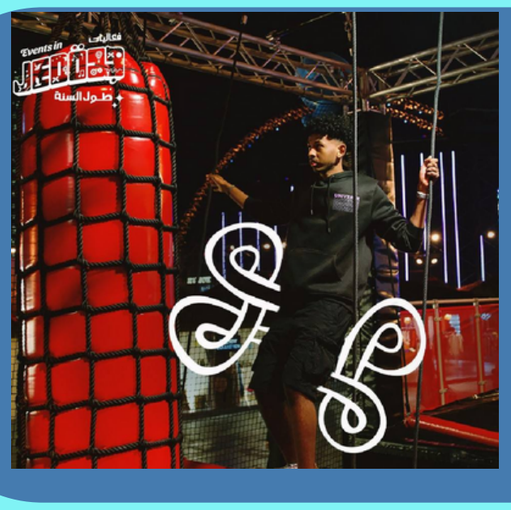
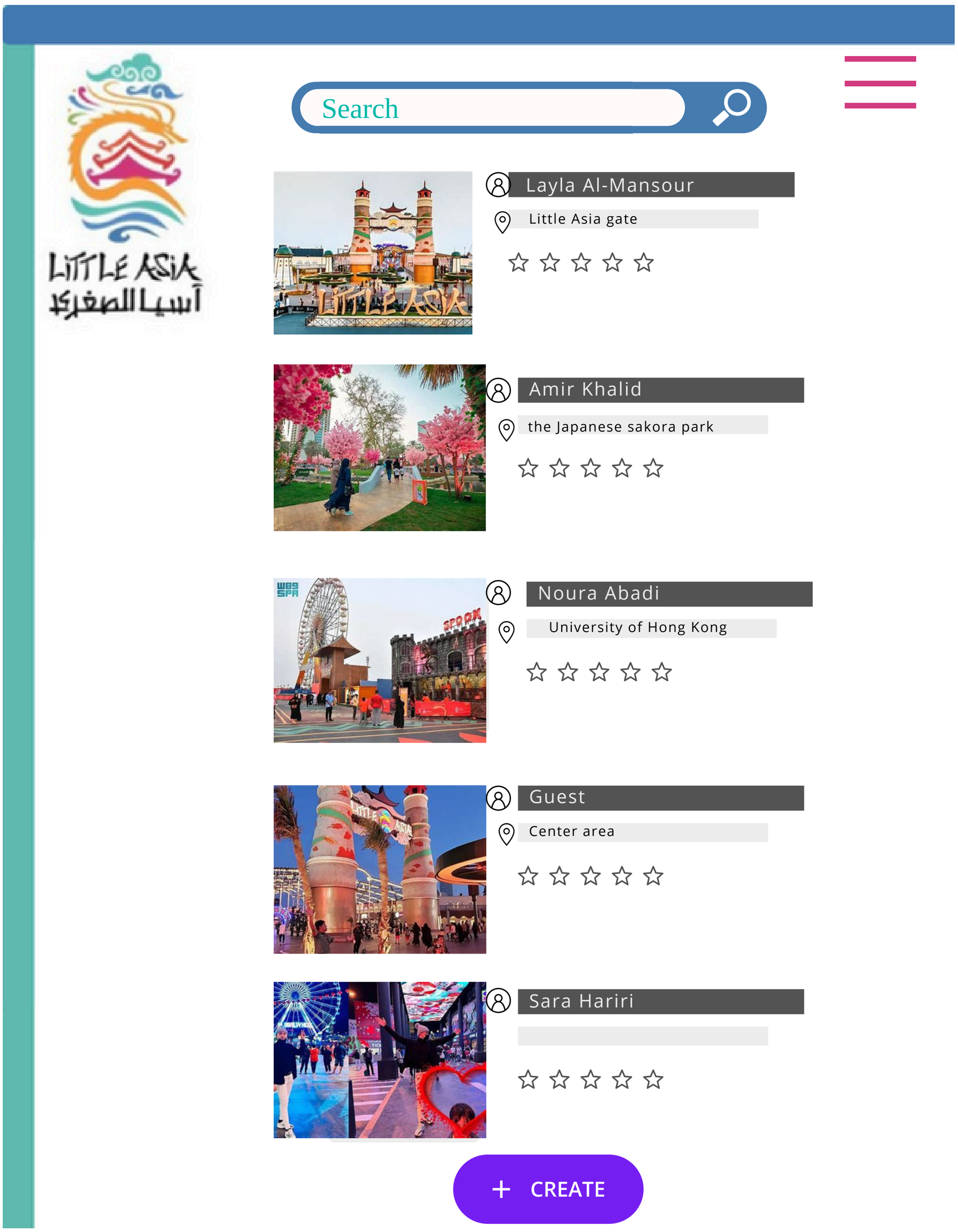
NumBun Fest
OSR
12/2/2024



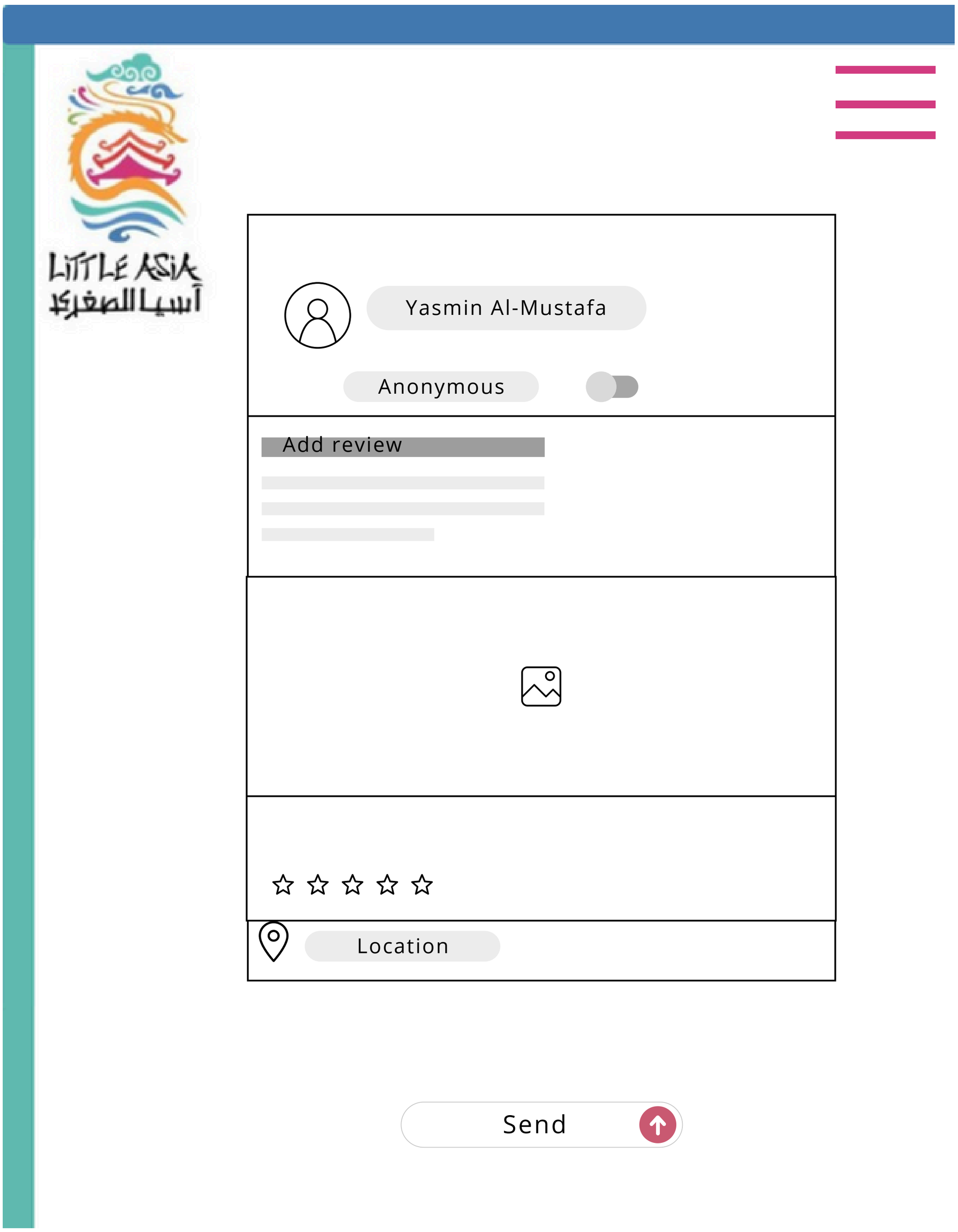
Ninja Course
150SR
12/2/2024

Book Another

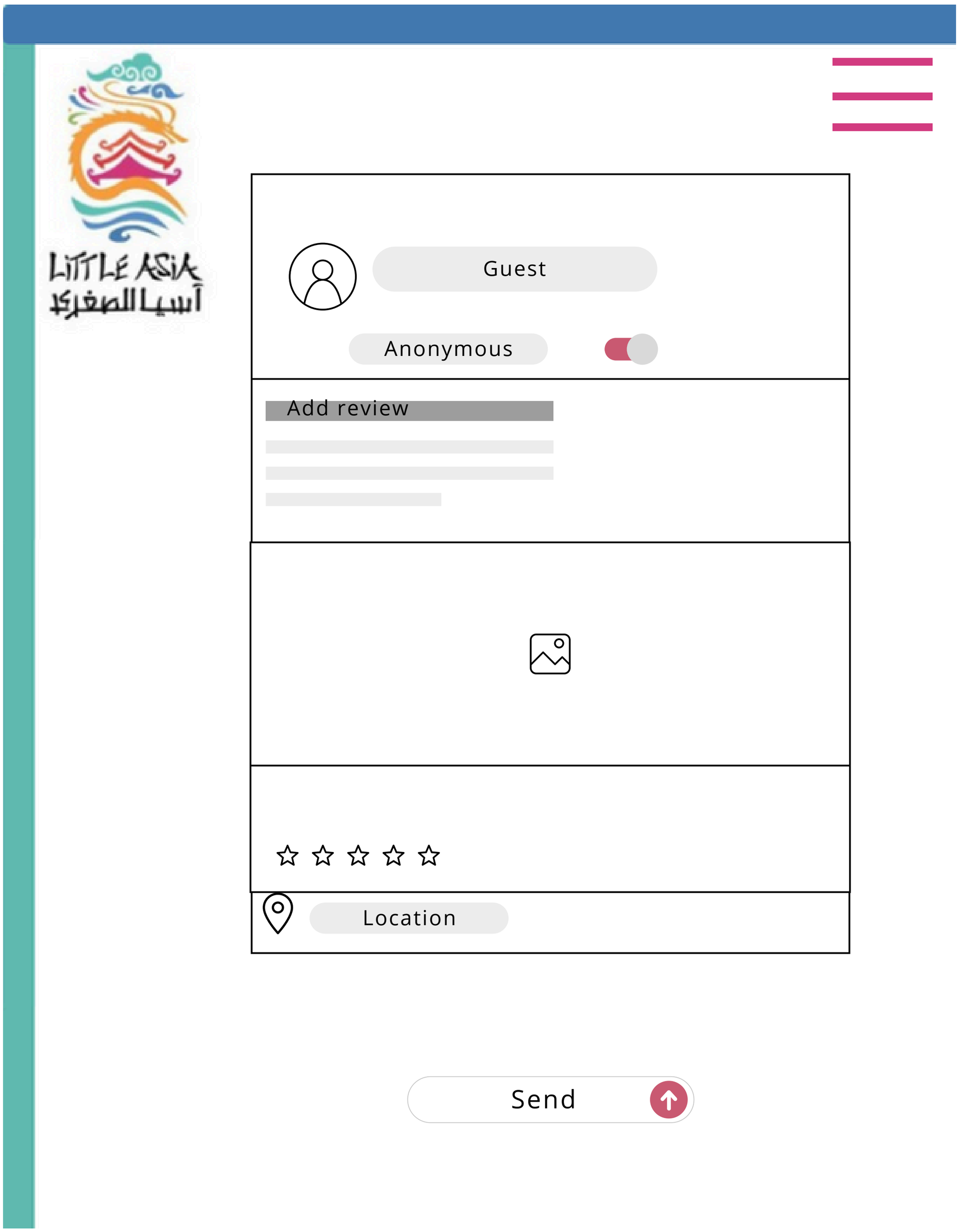
10. users FeedBack Prototype



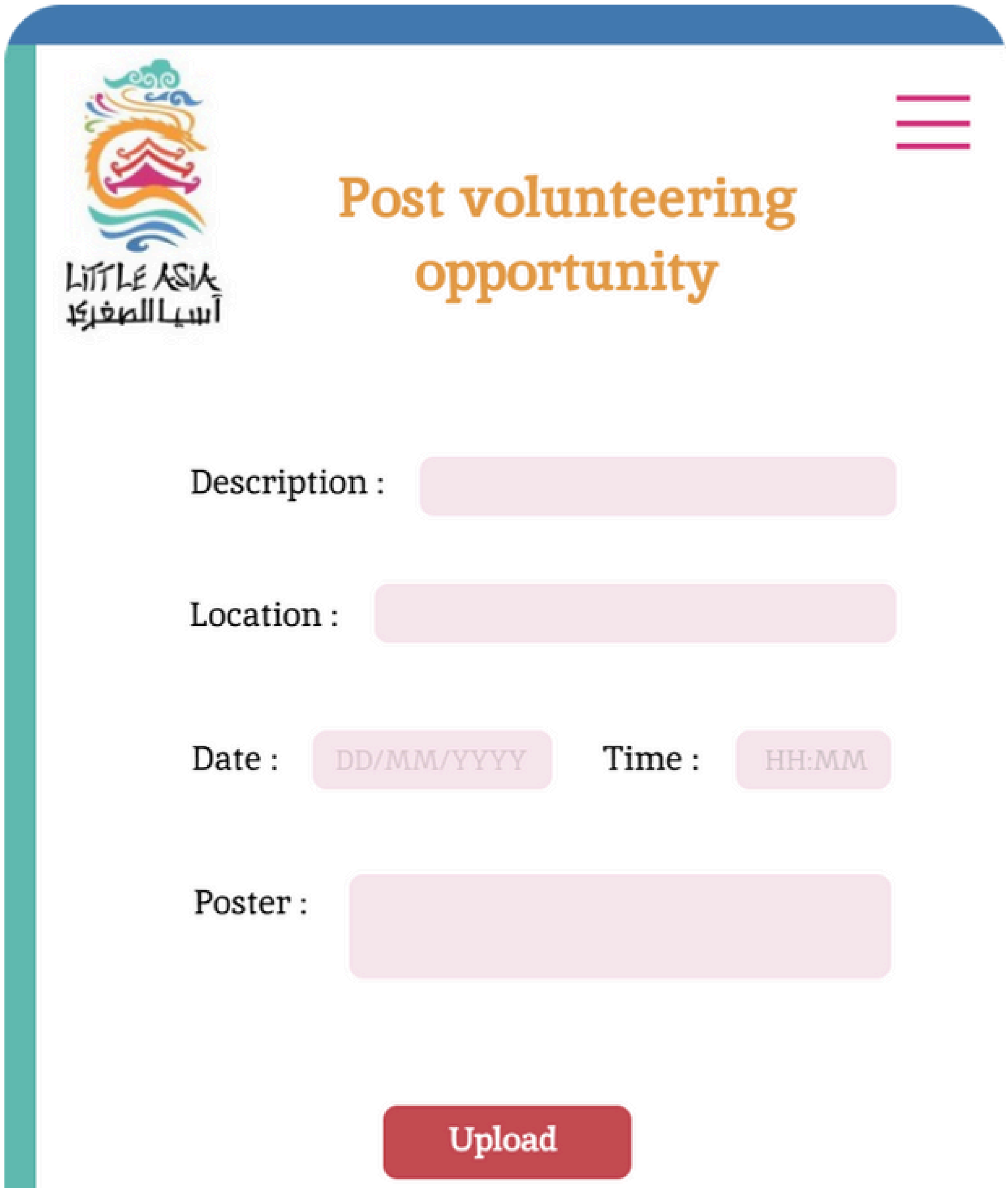
11. Create FeedBack Prototype



11. Create FeedBack Prototype



12. Post volunteering opportunity Prototype



13. Apply to Volunteer Prototype

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volunteering opportunities

Managing crowds

apply

waiter

apply

14. Apply to Volunteer Prototype

15. Volunteers prototype

Volunteers

Ali Alzahrani, Ninja Event

Leom Tariq, NumBun Event

Raghad Taofeq, NumBun Event

Ahmad Khaled , Ninja Event

iman Emam, Ninja Event

16. volunteers applications Prototype

Volunteer application

Full Name: Ahmed Saled Alharbi

Email : Ahmed@gmail.com

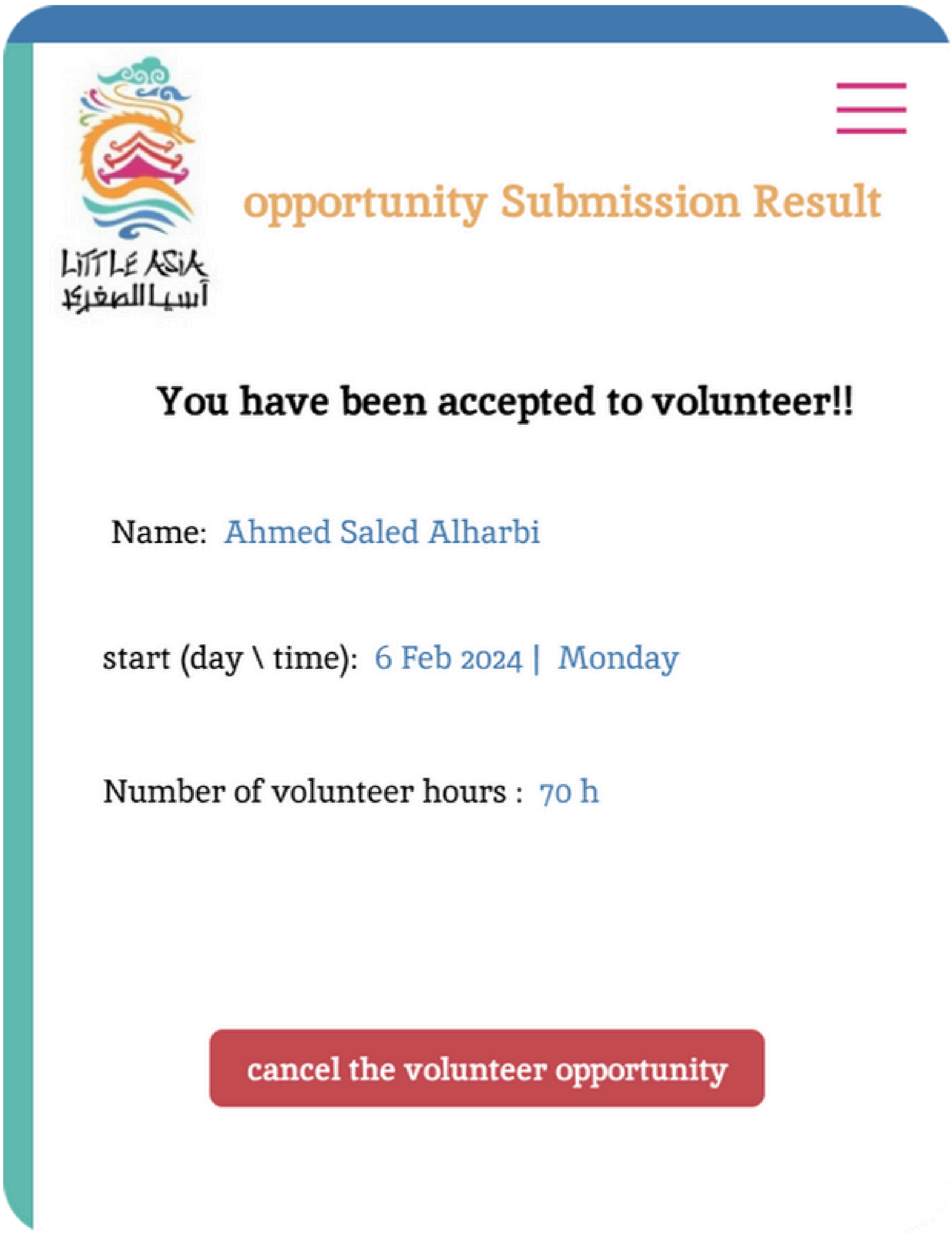
Availability: 5 pm - 9 pm

CV :

accept

reject

17. volunteers applications Prototype



Conclusion &Future work

In conclusion, the successful development and implementation of our Asia Minor software is a significant achievement in the field of software engineering. The platform has been designed with the user in mind and offers seamless functionality, making it an excellent choice for event management. The various processes involved contribute to a satisfying user experience, as the site caters to the diverse needs of event organizers and attendees.

Looking ahead, there are several ways to enhance and improve your event website. Firstly, incorporating advanced recommendation algorithms can personalize event suggestions based on user preferences and history, thereby enhancing the overall user experience. Additionally, integrating the platform with social media platforms will enable users to easily share events and increase engagement. It is essential to ensure that the platform can handle a larger number of events and users by enhancing its scalability. Implementing additional security measures will also be crucial to protect user data and transactions, ensuring maximum privacy and trust in the system.

To boost user engagement, introducing a loyalty program can encourage active participation in events and gather valuable feedback. It is important to continuously monitor user trends and preferences to make feature updates and improvements, ensuring that the platform remains adaptable to evolving user needs. By implementing these future developments, you can further enhance the success and effectiveness of your event website.

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2. Chatgpt
3. geeksforgeeks
4. WeeBook
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6. Saudi Volunteering Platform
7. Saudi Events App
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9. Previous people project