Software Requirements Specification

for

<ULAB EventPedia>

Version 0.2

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<University of Liberal Arts Bangladesh>

<25th April 2024>

Table of Contents

1. Software Requirements Specification 2
I. Introduction 2
i. Purpose 2
ii. Document Conversations 2
iii. Intended Audience and Reading Suggestions 2
iv. Product Scope 3
v. References 3
II. Overall Description 4
i. Product Perspective 4
ii. Product Functions 4
iii. User Classes and Characteristics 4
iv. Operating Environment 5
v. Assumptions and Dependencies 5
III. Analysis Models 6
2. Prototype Design 7
I. Admin Side 7
II. User Side 15
3. Application Interface 22
I. Admin Side 22
II. User Side 27
4. Work done so far 34

1. Software Requirements Specification

I. Introduction

i. Purpose

Throughout the academic year, the University of Liberal Arts Bangladesh (ULAB) hosts a wide range of events, from departmental seminars and club activities to student affairs campaigns. Unfortunately, there are challenges with event promotion, communication, and registration because of the inefficiencies, cohesiveness, lack of a centralized platform of the present event advertising and registration system. The ULAB EventPedia v0.1 is a mobile application designed to simplify the event management process within the University of Liberal Arts Bangladesh (ULAB).

This SRS document conveys the software requirements for the development of the ULAB EventPedia, which will serve as a centralized platform for event posting, promotion, and registration. The system will support the requirements of several parties engaged in planning and attending university events, such as students, staff, departments, clubs, and student affairs offices.

ii. Document Conversations

Incorporating Google map location was suggested as feedback. Providing Google map location may help the users locate the exact location of the event taking place and they can easily reach the destination following the map. It would be more helpful for those who are new to the area or do not know much about the area.

iii. Intended Audience and Reading Suggestions

Our intended audiences are the students, faculties, clubs, the CCO office, and the departments of the University of Liberal Arts Bangladesh (ULAB). The rest of the SRS contains which problem we kept in mind while developing the project, what operating environment the app works on, the features that our app will contain including the functional and non-functional requirements, the design and implementation process, a figma diagram of our app, and the resources used for making this project. The text should be read in order, beginning with the introduction to summarize its aim and scope. Next, interested readers should read the general description for further information on the product and its functions, then look at the external interface requirements to see how it interacts with the environment. For a more in-depth knowledge of the system's capabilities and performance standards, one should go to the sections on system features and non-functional requirements. Finally, to check

any extra needs and consult the appendices for further resources. This method guarantees a complete knowledge of the document's content.

iv. Product Scope

The ULAB EventPedia is a mobile application software. It is drafted to reduce the advertising challenges and registration complexities of the events arranged within the University of Liberal Arts Bangladesh (ULAB).

There are several issues with the University of Liberal Arts Bangladesh's (ULAB) present event management system, most of which are caused by dispersed communication channels and decentralized procedures. Event information is distributed over a fragmented range of channels, such as Facebook pages and email, which causes disparities and makes it harder to find relevant information. Because there is a lack of centralization, teachers and students need to use several channels, missing important event updates or being overloaded with information. Additionally, a large portion of event registration procedures rely on manual techniques like email submissions and Google Forms, which introduces inefficiencies and inconsistent data. The entire user experience is compromised by these manual procedures, which not only take up administrative time but also raise the possibility of mistakes and data loss.

This SRS document conveys the software requirements for the development of the ULAB EventPedia, in which the admin can promote events by posting on our app and interested students can register for their desired events. The system will be a lot of help for the parties engaged in organizing and attending university events. EventPedia's in-app alert capabilities promote excellent communication between event organizers and attendees, guaranteeing timely transmission of information and changes. This mobile application lets users view event information and register for events at any time and location. The attendees can register in online registration forms for event registration, simplifying the registration procedure. Apart from that, viewing the location of the event venue from Google Maps will significantly make any event more accessible.

By developing the ULAB EventPedia, these issues will be resolved and events information, promotion, and registration will be centralized.

v. References

Azmi, P. A. A. S. U., & Ibrahim, N. (2021). UTHM Students' Event Management System. *Applied Information Technology And Computer Science*, *2*(2), 697-716. https://publisher.uthm.edu.my/periodicals/index.php/aitcs/article/view/2586

II. Overall Description

i. Product Perspective

The ULAB EventPedia described in this SRS is a new, self-contained solution designed to answer the issues that the University of Liberal Arts Bangladesh (ULAB) faces while administering and promoting its events. It is not a substitute for existing technologies, but rather an independent solution aimed to improve event management operations and keep a logbook of the upcoming and recent events including the list of students that have registered for an event at the institution. With the help of our app, the number of students engaging in different co-curricular events at the university will significantly increase. This application is specifically designed for the students, teachers, and management parties of the University of Liberal Arts Bangladesh.

ii. Product Functions

The software has two primary groups of functions for administrators and users. The admin panel can create, edit, or remove event details, specify event locations, and look at the list of registered students. The student platform allows users to view event details, register for events, change their profile information, view a list of previously and currently attended events, and make online payments.
Admin Side:

- Add, update, or delete event details
- Set event location via Google Maps
- View registered list of attendees

Student Side:

- View event details and register for events
- Edit user profile
- View list of previous events attended
- Make online payments

iii. User Classes and Characteristics

The various user classes that we anticipate will use the product are given below:

1. Students/Faculty: The students will be frequent users as the maximum events organized in the university will be intended for students. Apart from the students, the faculties will also be able to use the app. The students or faculties can view event lists and register for any event with the additional feature of paying for any registration through the app. They will also be able to view the event location in Google Maps.
2. Admin: SAO and CCO will be the admins of the app EventPedia and will therefore be able to post and manage event details along with viewing a list of registered students. The admins

will also be able to set the event location in Google Maps. In addition, the admins of each department can also be admins.

iv. Operating Environment

The ULAB EventPedia software will work in a mobile environment, particularly for Android devices. The program will work with a variety of Android operating system versions, from earlier ones like Android 5.0 to more recent ones like Android 12. Considering that most university students own smartphones, a mobile app offers a convenient way to publish, promote, and register events while on the go, keeping users informed and involved. Furthermore, a mobile app centralizes event-related activities and lessens dependency on different channels by streamlining coordination and communication efforts. The user-friendly design of the mobile app and its interaction with already-existing technologies, such as Google Maps, improve productivity and user experience, resulting in a more lively and cohesive campus community. Additionally, a mobile app helps ULAB achieve its strategic goals of using technology to improve student engagement and operational effectiveness while projecting the university as a cutting-edge, contemporary organization.

Android Studio will be the primary development tool for the Android version. We have chosen Android Studio because it is simpler to create Android apps using Android Studio. It is the primary tool used by developers to make Android applications. We can develop code, identify and repair issues, and test our app before publishing it with Android Studio. It also integrates effectively with many features and libraries required to create Android apps. We can use either Kotlin or Java on Android Studio. Additionally, Android Studio includes a feature that allows us to test our app across various Android phones and tablets, ensuring that it functions properly on all of them. All in all, Android Studio simplifies the process for developers to produce excellent Android apps.

v. Assumptions and Dependencies

Assumptions:
The readiness of stakeholders to accept and make use of the ULAB EventPedia for event administration. The availability of internet connectivity while using the application.

The mobile application is specifically designed for the students, teachers, and staff of the University of Liberal Arts Bangladesh. Users from outside the organization are not allowed to use the application. Therefore, there must be a validation procedure, while creating an account, where the people intended to create an account on the app have to validate themselves as a ULAB student, faculty or staff member. Only after this validation, an account can be created. Furthermore, for users to explore events, register, and get real-time information on the ULAB EventPedia, reliable internet connectivity is essential to its functioning and usefulness. Any interruptions to internet access might make it harder to use and enjoy the program.

III. Analysis Models

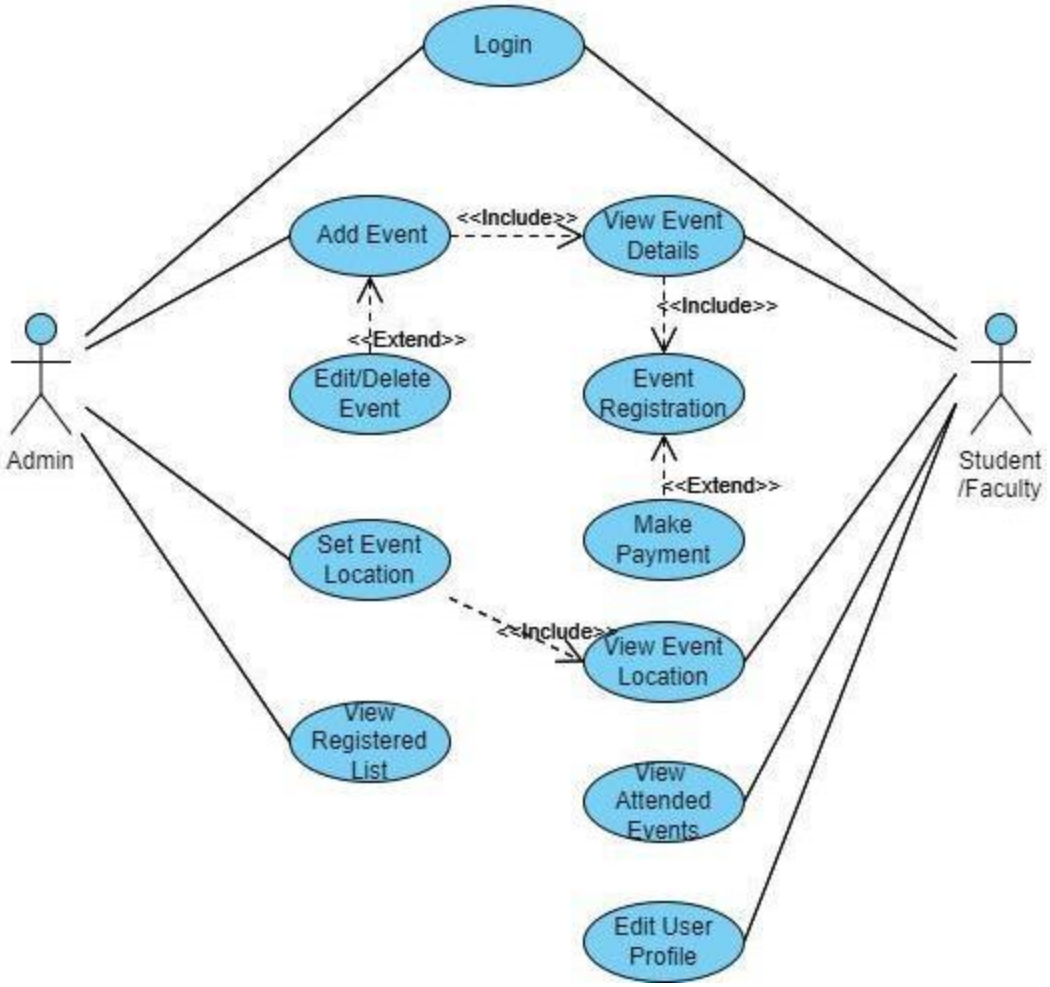
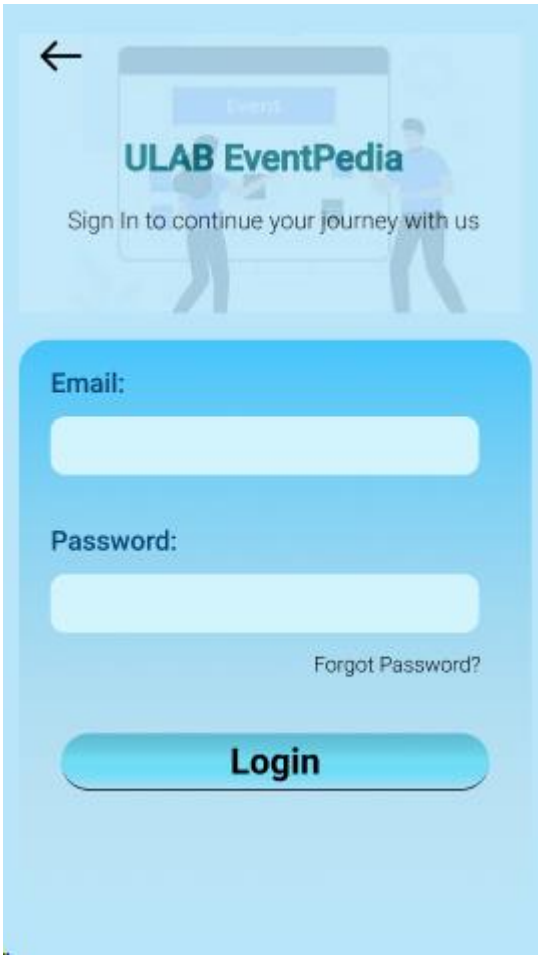
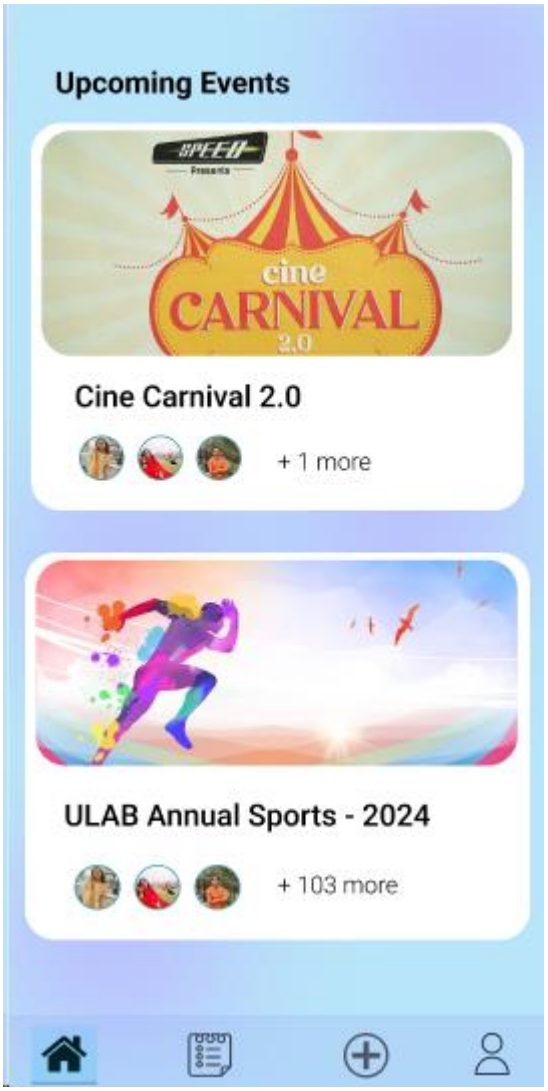


Fig: Use-case diagram

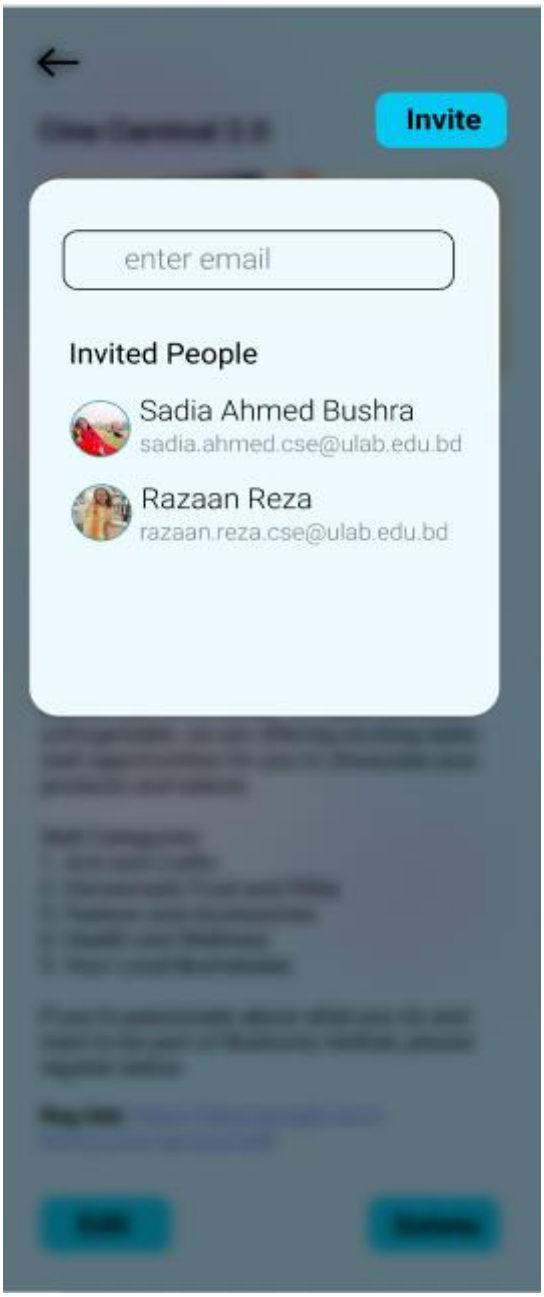
2. Prototype Design

I. Admin Side

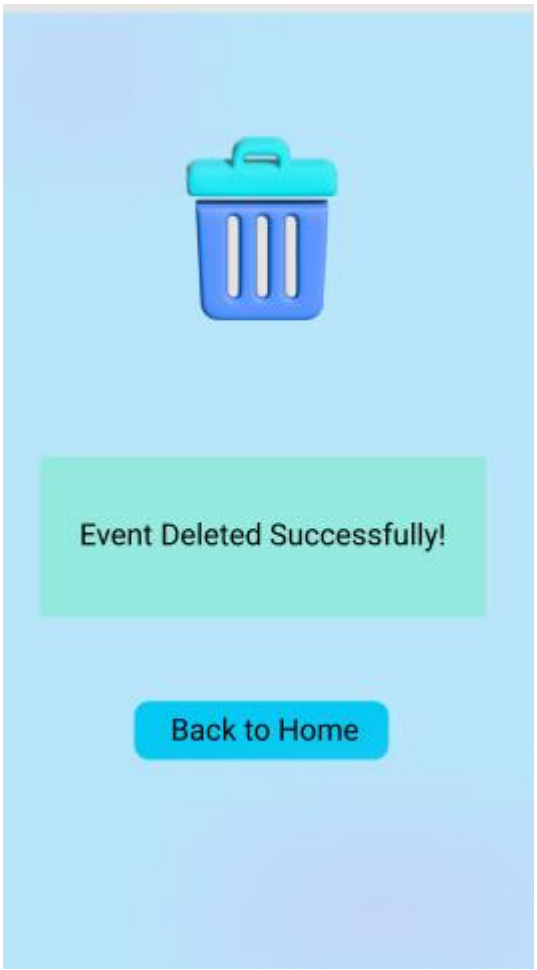


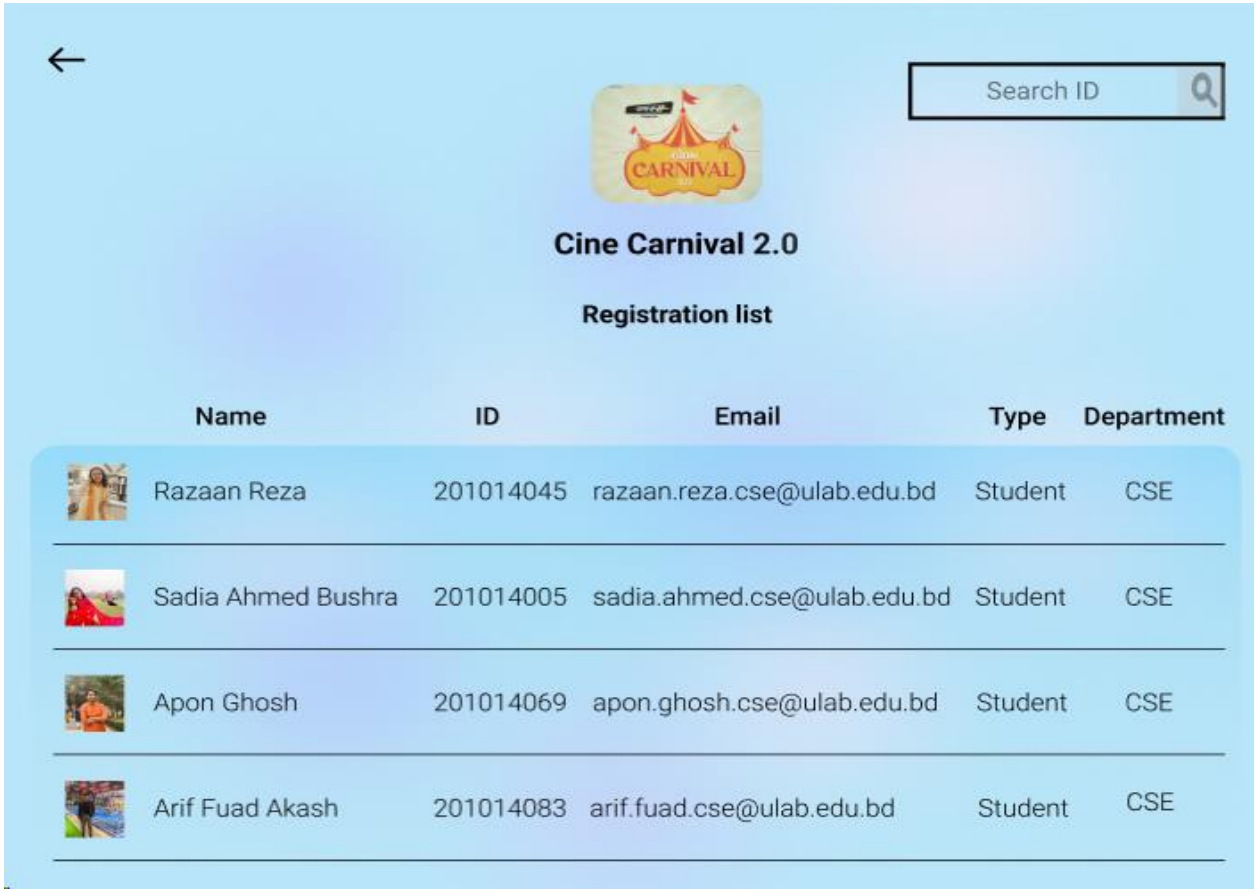


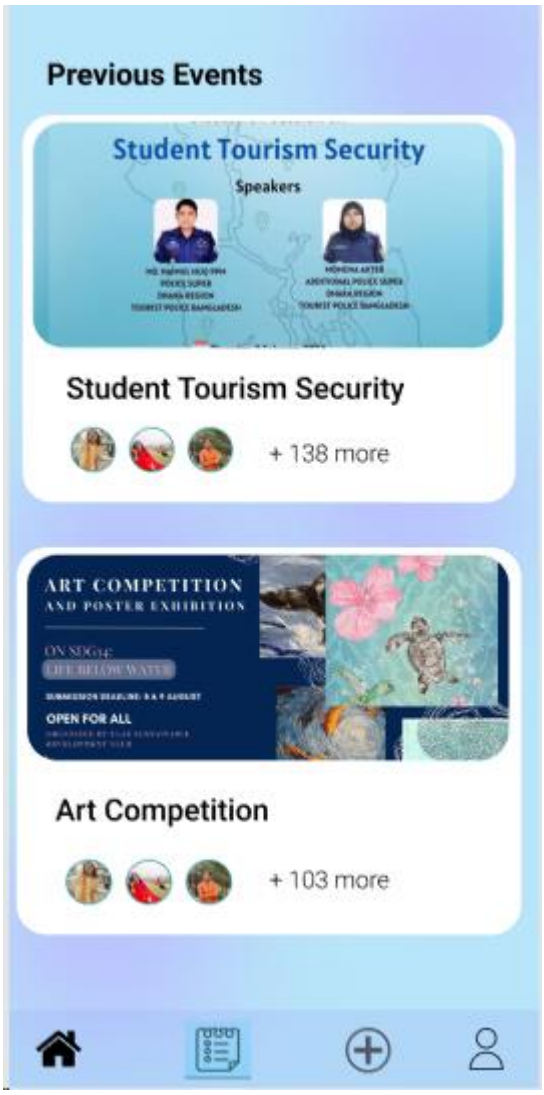

Cine Carnival 2.0
Invite
cine
CARNIVAL
2.0
ULAB Permanent Campus Ground
2000/-
12-14 February 2024
9am-5pm
Dear ULABians
As we embrace the vibrant season of spring, we are thrilled to announce the upcoming Boshonto Utshob, a celebration of colors, culture, and community. To make this event unforgettable, we are offering exciting table-stall opportunities for you to showcase your products and talents.
Stall Categories:
1. Arts and Crafts
2. Homemade Food and Pitha
3. Fashion and Accessories
4. Health and Wellness
5. Your Local Businesses
If you're passionate about what you do and want to be part of Boshonto Utshob, please register below
Edit
Delete


Invite
enter email
Invited People
Sadia Ahmed Bushra
sadia.ahmed.cse@ulab.edu.bd
Razaan Reza
razaan.reza.cse@ulab.edu.bd

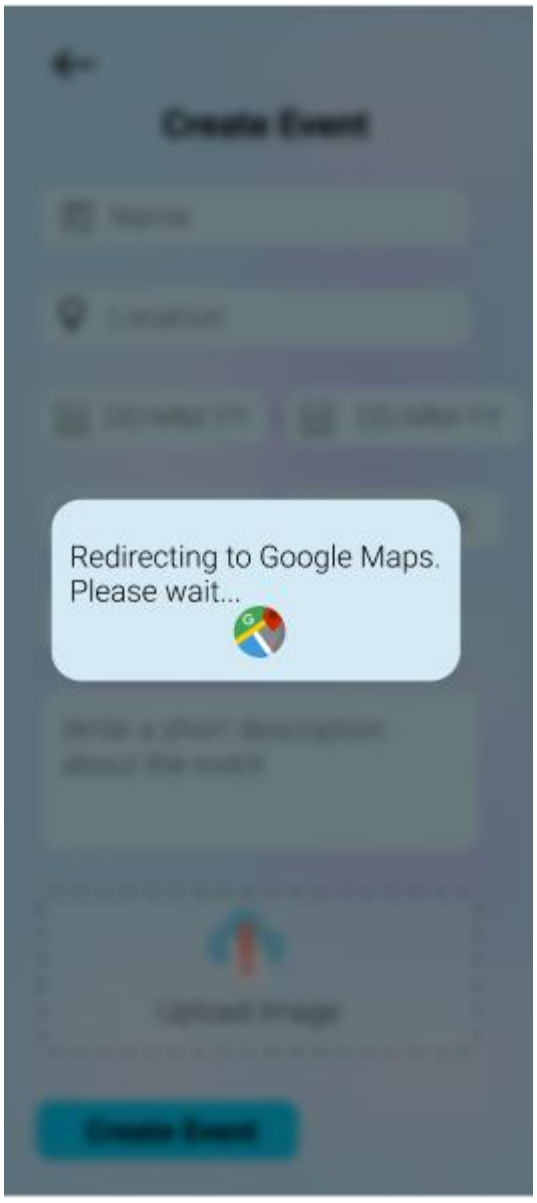

Edit Event
Cine Carnival 2.0
ULAB Permanent Campus Ground
12-02-24
14-02-24
9:00 am
5:00 pm
Public
2000/-
Dear ULABians
As we embrace the vibrant season of spring, we are thrilled to announce the upcoming Boshonto Utshob, a celebration of colors, culture, and community. To make
Cine-Carnival-2.0.jpg
Done

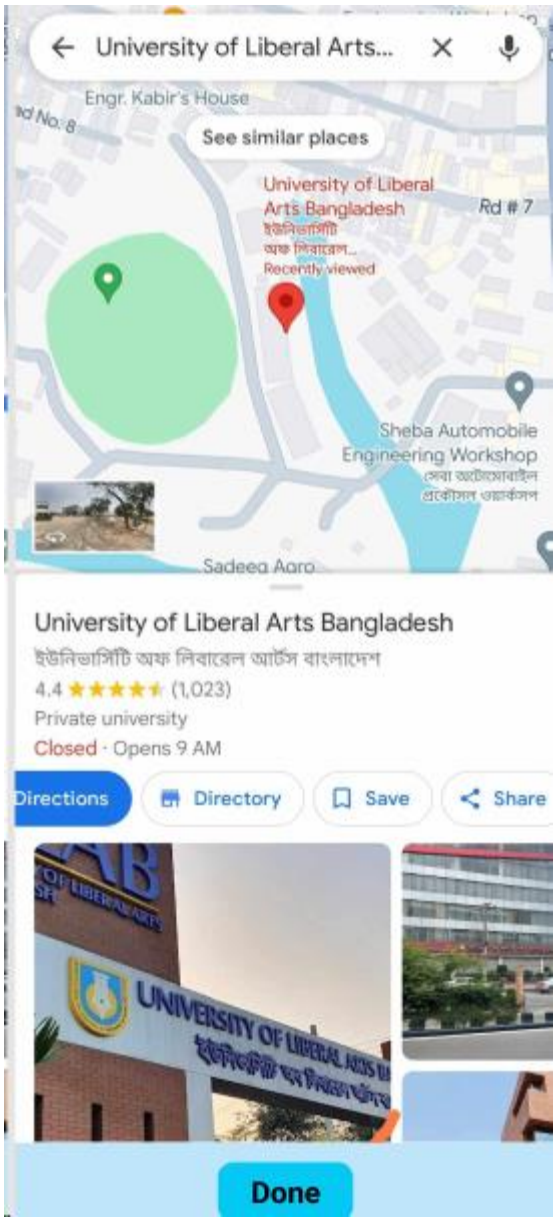

Event Deleted Successfully!
Back to Home

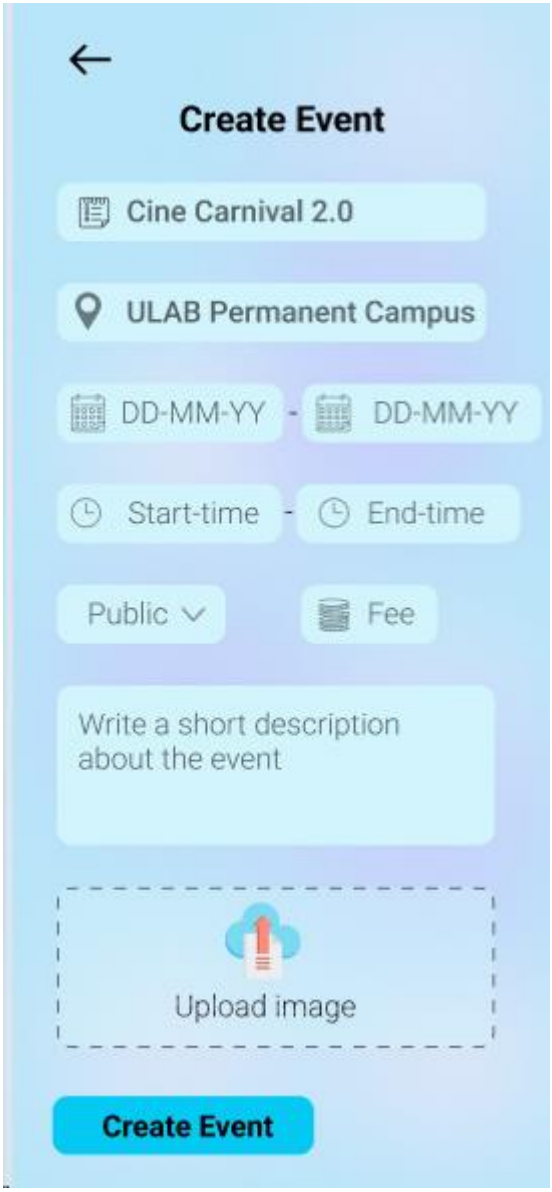

Search ID
CARNIVAL
Cine Carnival 2.0
Registration list
Name
ID
Email
Type
Department
Razaan Reza
201014045
razaan.reza.cse@ulab.edu.bd
Student
CSE
Sadia Ahmed Bushra
201014005
sadia.ahmed.cse@ulab.edu.bd
Student
CSE
Apon Ghosh
201014069
apon.ghosh.cse@ulab.edu.bd
Student
CSE
Arif Fuad Akash
201014083
arif.fuad.cse@ulab.edu.bd
Student
CSE

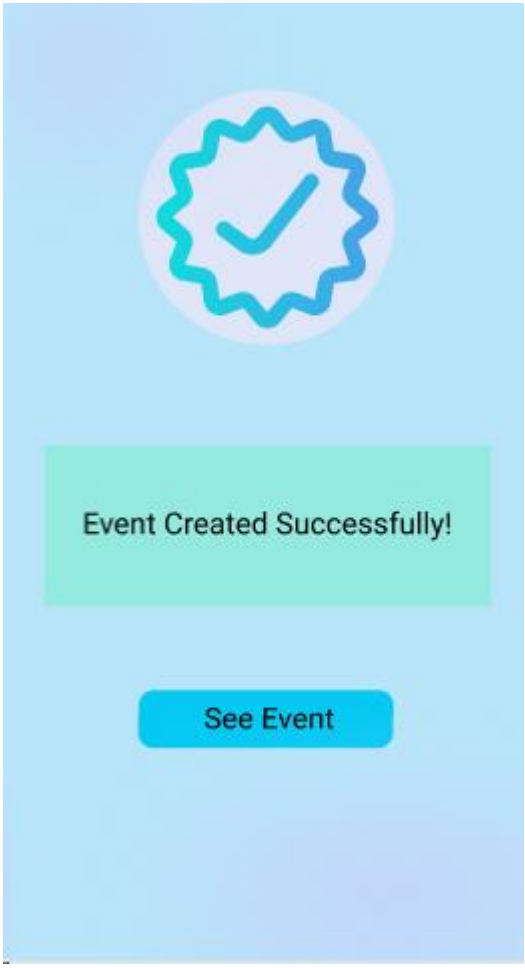

Previous Events
Student Tourism Security
Speakers
Student Tourism Security
+ 138 more
ART COMPETITION
AND POSTER EXHIBITION
OPEN FOR ALL
Art Competition
+ 103 more


Create Event
Name
Location
DD-MM-YY
DD-MM-YY
Start-time
End-time
Public
Fee
Write a short description about the event
Upload image
Create Event


Create Event
Redirecting to Google Maps.
Please wait...
Upload Image
Create Event


University of Liberal Arts...
Engr. Kabir's House
See similar places
University of Liberal Arts Bangladesh
Rd # 7
Recently viewed
Sheba Automobile Engineering Workshop
University of Liberal Arts Bangladesh
4.4 (1,023)
Private university
Closed · Opens 9 AM
Directions
Directory
Save
Share
Done


Create Event
Cine Carnival 2.0
ULAB Permanent Campus
DD-MM-YY
DD-MM-YY
Start-time
End-time
Public
Fee
Write a short description about the event
Upload image
Create Event

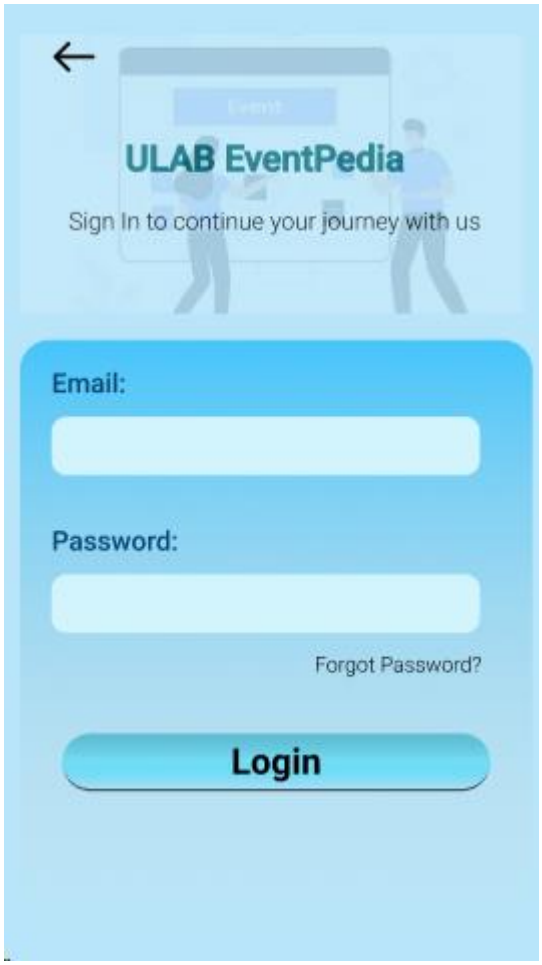

Event Created Successfully!
See Event


ULAB
Co-curricular office
cocurricular@ulab.edu.bd
01837469387
Logout


ULAB
ULAB Co-curricular Office
01837469387
cocurricular@ulab.edu.bd
Confirm

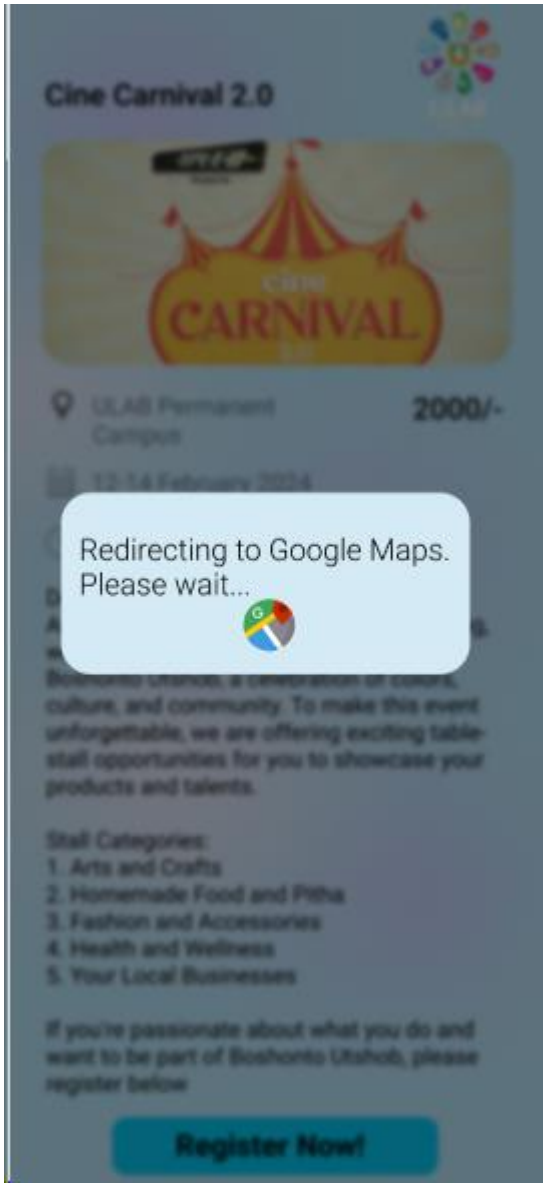
II. User Side


Welcome to
ULAB EventPedia
Login as Admin
Login as User

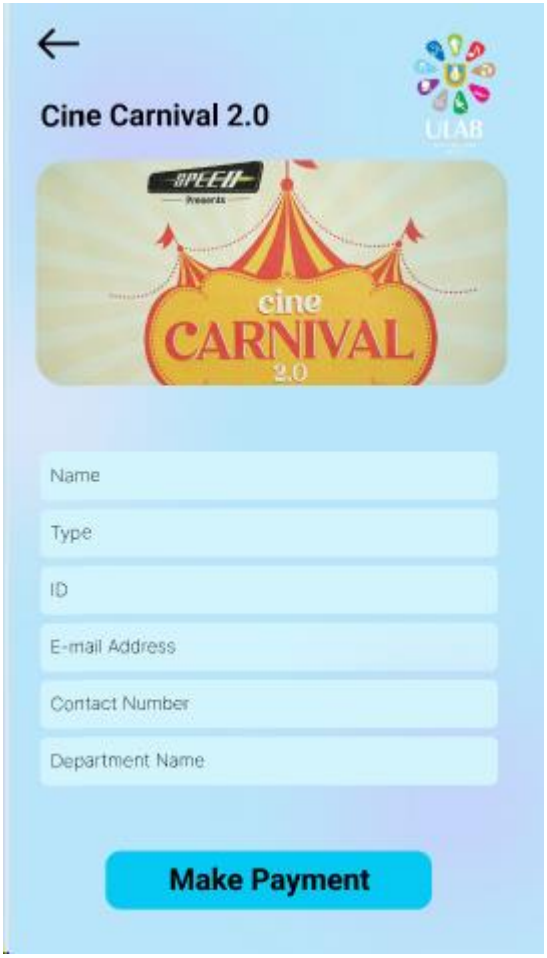

ULAB EventPedia
Sign In to continue your journey with us
Email:
Password:
Forgot Password?
Login

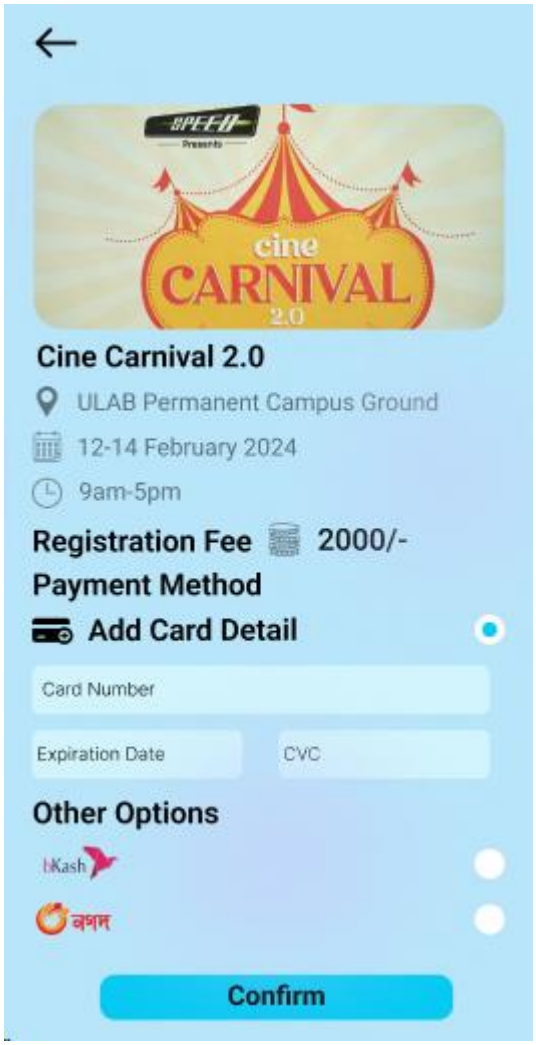

What's Next
Cine Carnival 2.0
ULAB Annual Sports - 2024


Cine Carnival 2.0
ULAB Permanent Campus
2000/-
12-14 February 2024
9am-5pm
Dear ULABians
As we embrace the vibrant season of spring, we are thrilled to announce the upcoming Boshonto Utshob, a celebration of colors, culture, and community. To make this event unforgettable, we are offering exciting table-stall opportunities for you to showcase your products and talents.
Stall Categories:
1. Arts and Crafts
2. Homemade Food and Pitha
3. Fashion and Accessories
4. Health and Wellness
5. Your Local Businesses
If you're passionate about what you do and want to be part of Boshonto Utshob, please register below
Register Now!


Cine Carnival 2.0
CARNIVAL
2000/-
Redirecting to Google Maps.
Please wait...
Register Now!


Rd 3
Rd 4
Rd 4
Road No. 2
Bipul Motor
Engineering Workshop
Engr. Kabir's House
University of Liberal
Arts Bangladesh
Rd # 7
Sadeeq Agro
Rd 1
University of Liberal Arts Bangladesh


Cine Carnival 2.0
ULAB
cine
CARNIVAL
2.0
Name
Type
ID
E-mail Address
Contact Number
Department Name
Make Payment


cine
CARNIVAL
2.0
Cine Carnival 2.0
ULAB Permanent Campus Ground
12-14 February 2024
9am-5pm
Registration Fee 2000/-
Payment Method
Add Card Detail
Card Number
Expiration Date
CVC
Other Options
Confirm


CONGRATS
Your registration for ULAB Cine Carnival 2.0 is successful!
See you soon at the event on 12 to 14th February at 9 am.
Back to Home


Registered Events
Student Tourism Security
Speakers
Student Tourism Security
ART COMPETITION
AND POSTER EXHIBITION
OPEN FOR ALL
Art Competition


Joined Earlier
ARE YOU READY!
Take-Off Programming Contest
ULAB COMPUTER
Competitive Programming Bootcamp:
C++ Standard Template Library (STL)
Competitive Programming Bootcamp: C++ STL
ULAB COMPUTER

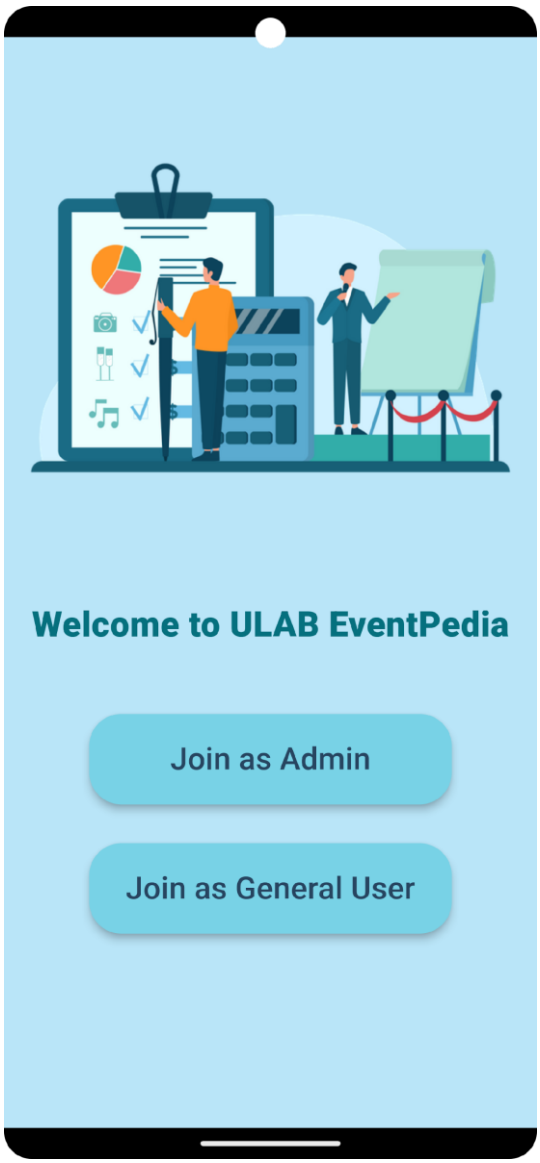

Notifications
Your registered Student Tourism Security starts in 30 minutes!
ULAB CCO has invited you to join ULAB Annual Sports
ULAB SAO has invited you to join Cine Carnival 2.0

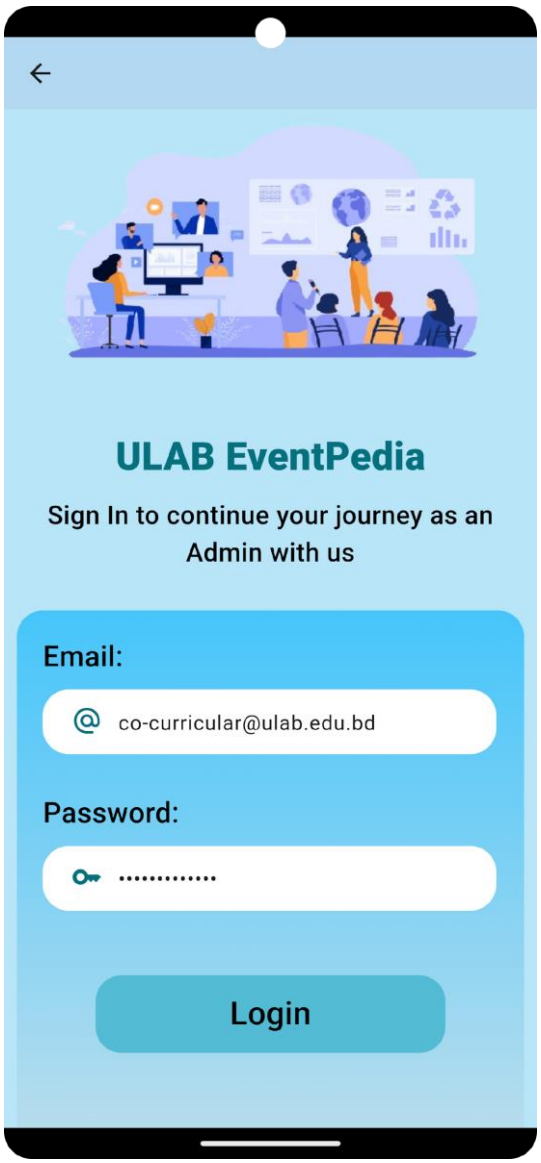

Apon Ghosh
201014069
CSE
apon.ghosh.cse@ulab.edu.bd
01797506115
Logout

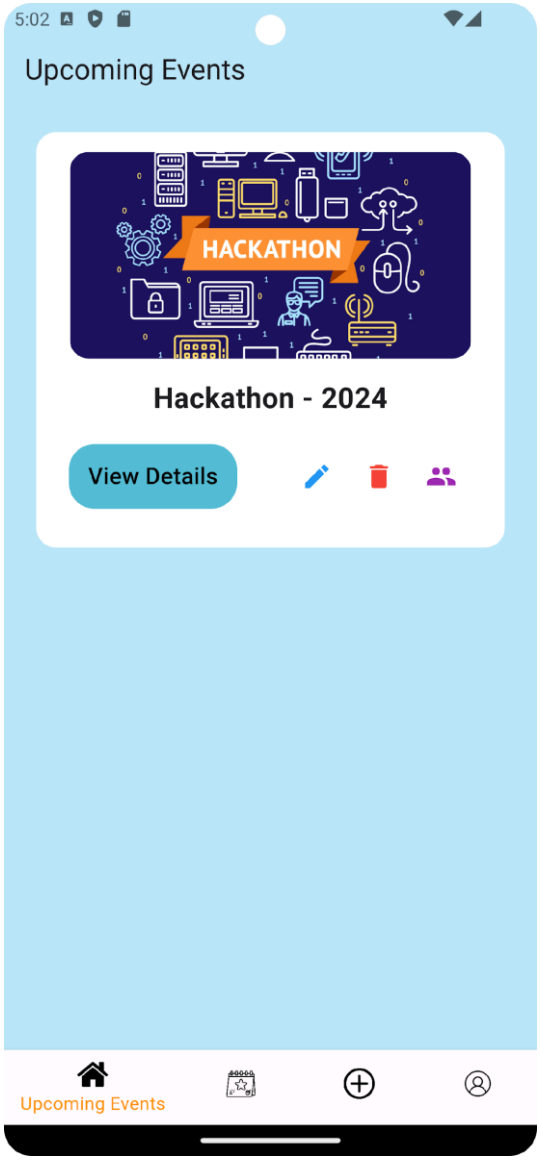

Apon Ghosh
201014069
apon.ghosh.cse@ulab.edu.bd
01797506115
CSE
Confirm

3. Application Interface

I. Admin Side



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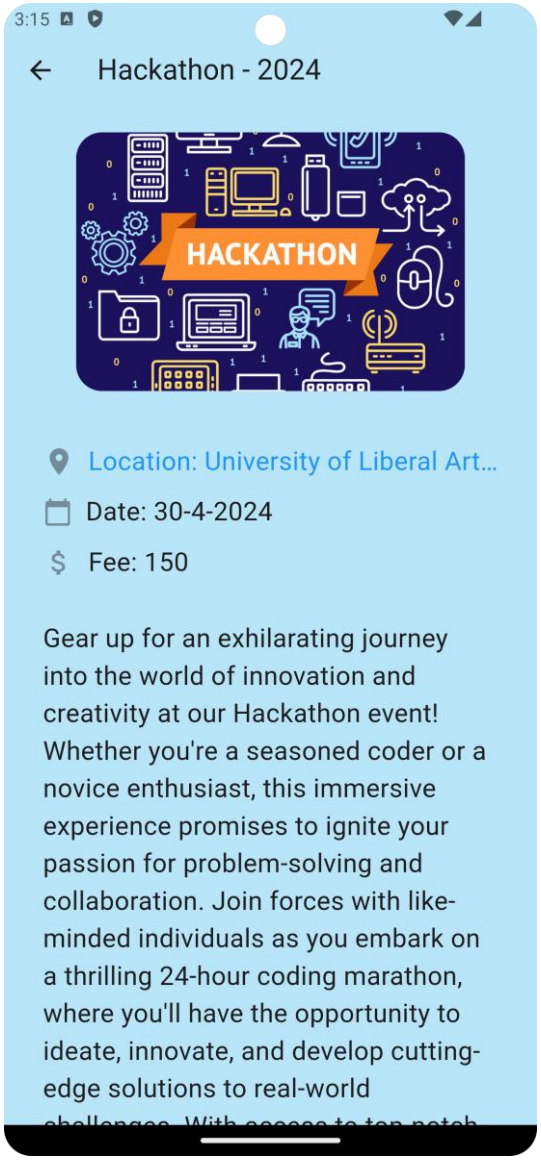
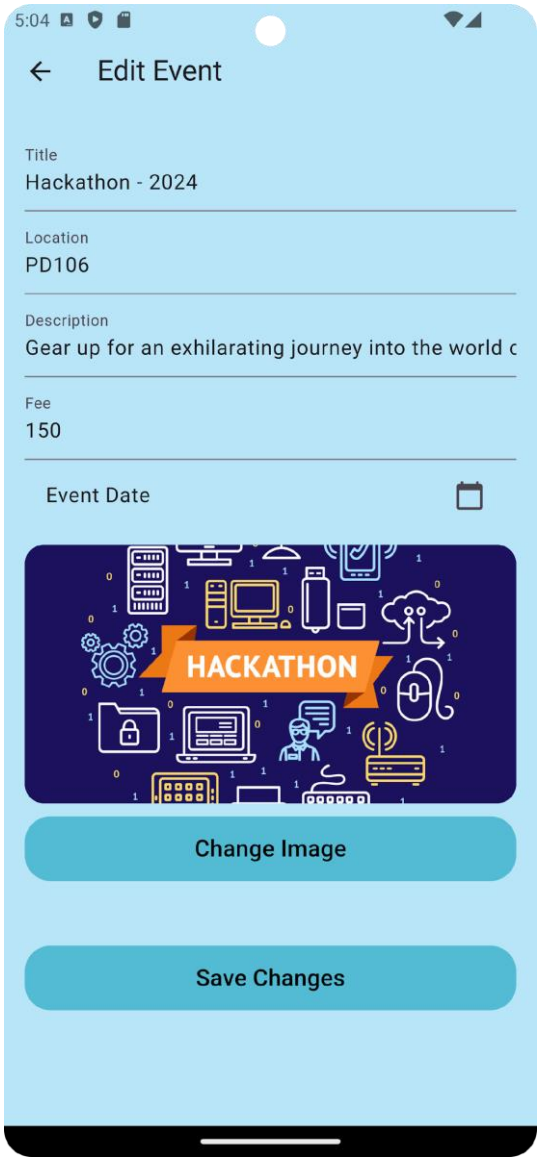
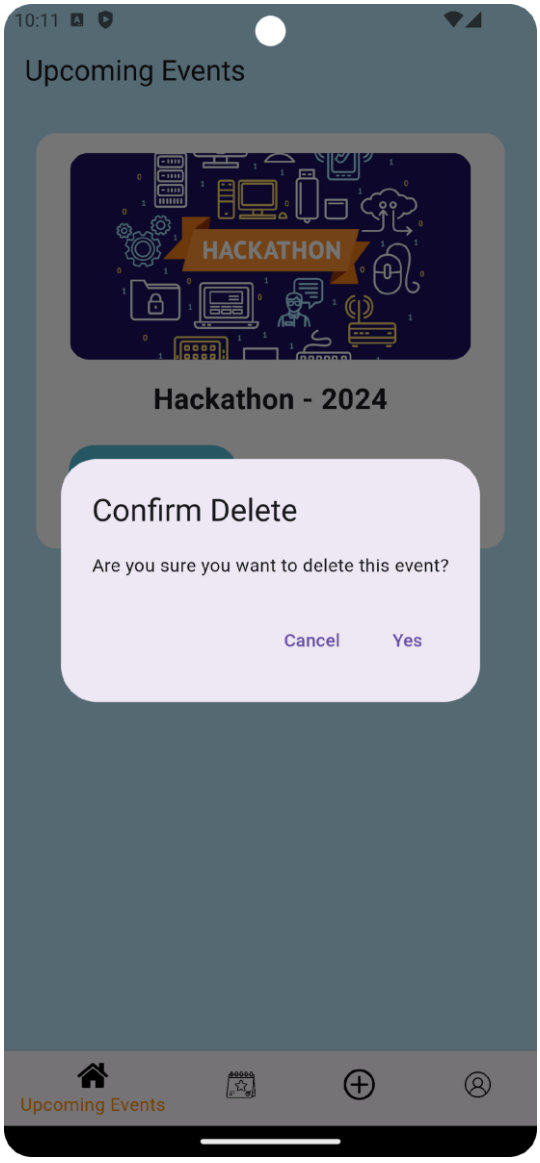
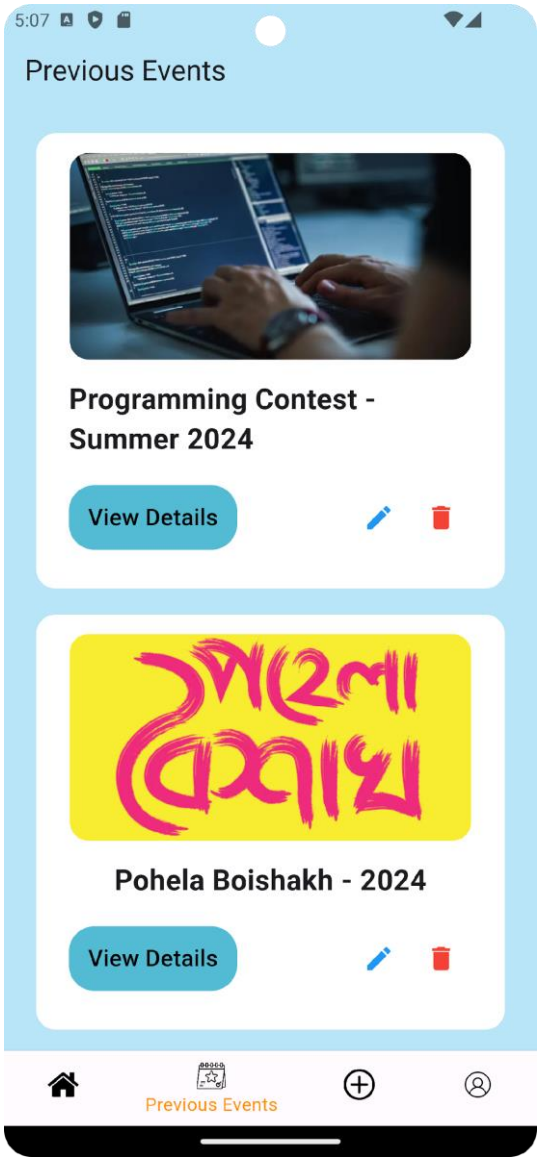
Upcoming Events
HACKATHON
Hackathon - 2024
View Details
Upcoming Events


3:15
Hackathon - 2024
HACKATHON
Location: University of Liberal Art...
Date: 30-4-2024
Fee: 150
Gear up for an exhilarating journey into the world of innovation and creativity at our Hackathon event! Whether you're a seasoned coder or a novice enthusiast, this immersive experience promises to ignite your passion for problem-solving and collaboration. Join forces with like-minded individuals as you embark on a thrilling 24-hour coding marathon, where you'll have the opportunity to ideate, innovate, and develop cutting-edge solutions to real-world


5:04
Edit Event
Title
Hackathon - 2024
Location
PD106
Description
Gear up for an exhilarating journey into the world c
Fee
150
Event Date
HACKATHON
Change Image
Save Changes


10:11
Upcoming Events
HACKATHON
Hackathon - 2024
Confirm Delete
Are you sure you want to delete this event?
Cancel
Yes
Upcoming Events


5:06
Event Registrations List
HACKATHON
Hackathon - 2024
Name
ID
Email
Apon Ghosh
201014069
Sadia Ahmed Bushra
201014005
Razaan Reza
201014045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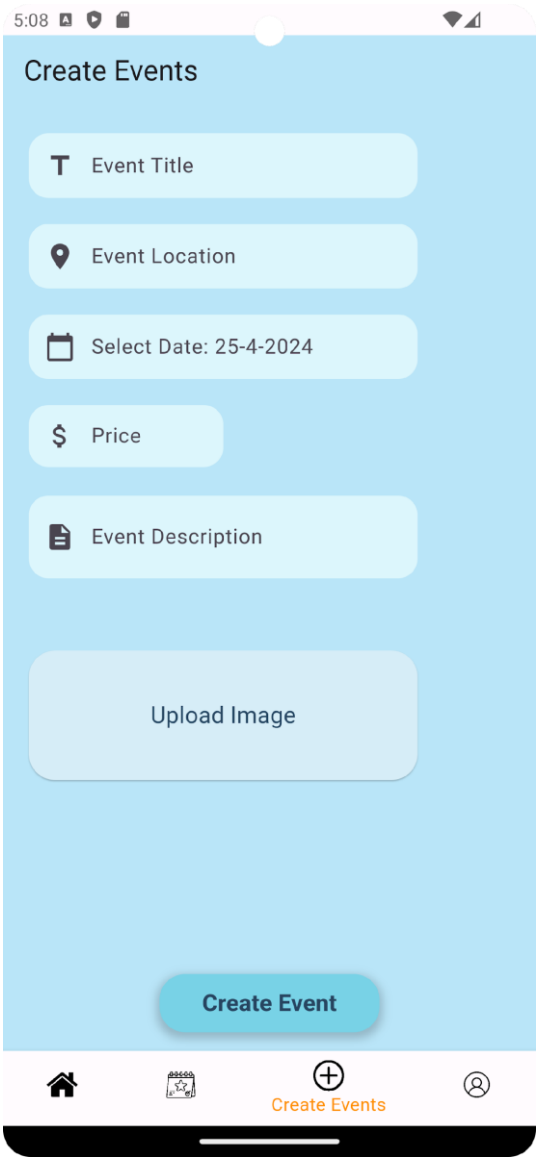
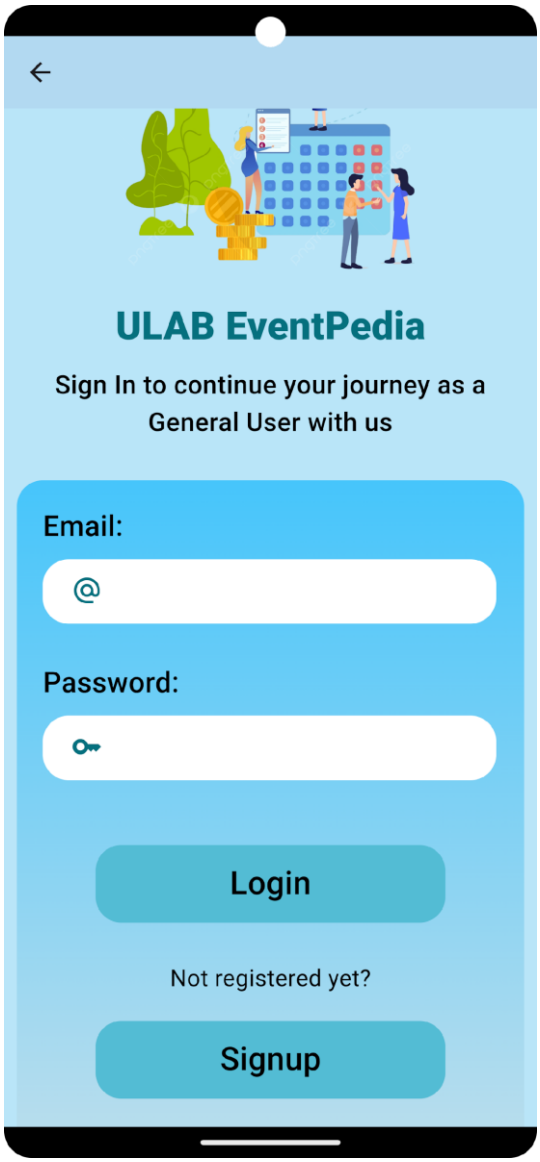
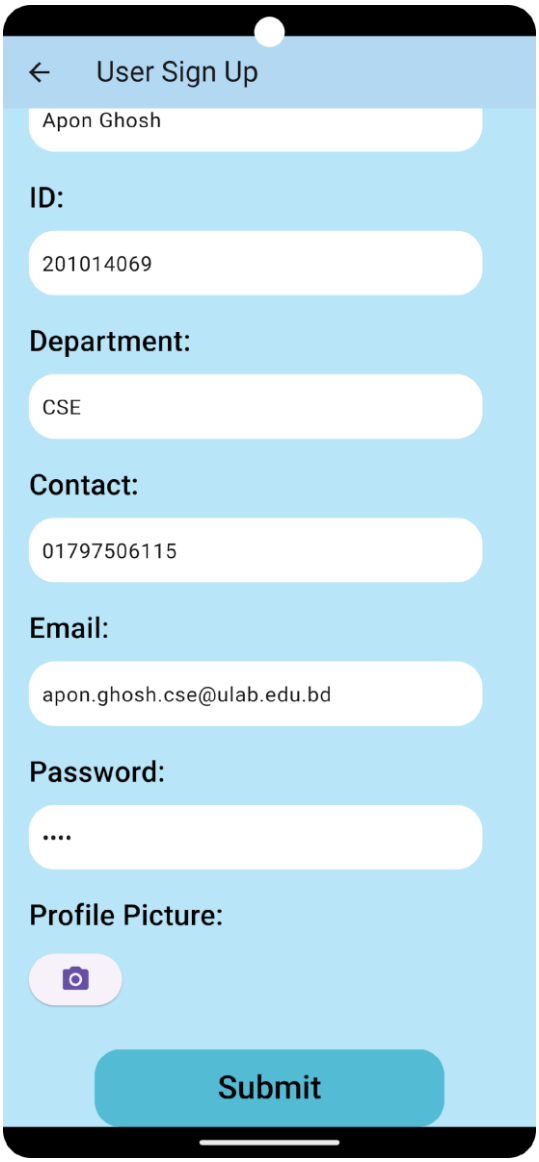
Previous Events
Programming Contest - Summer 2024
View Details
Pohela Boishakh - 2024
View Details
Previous Events

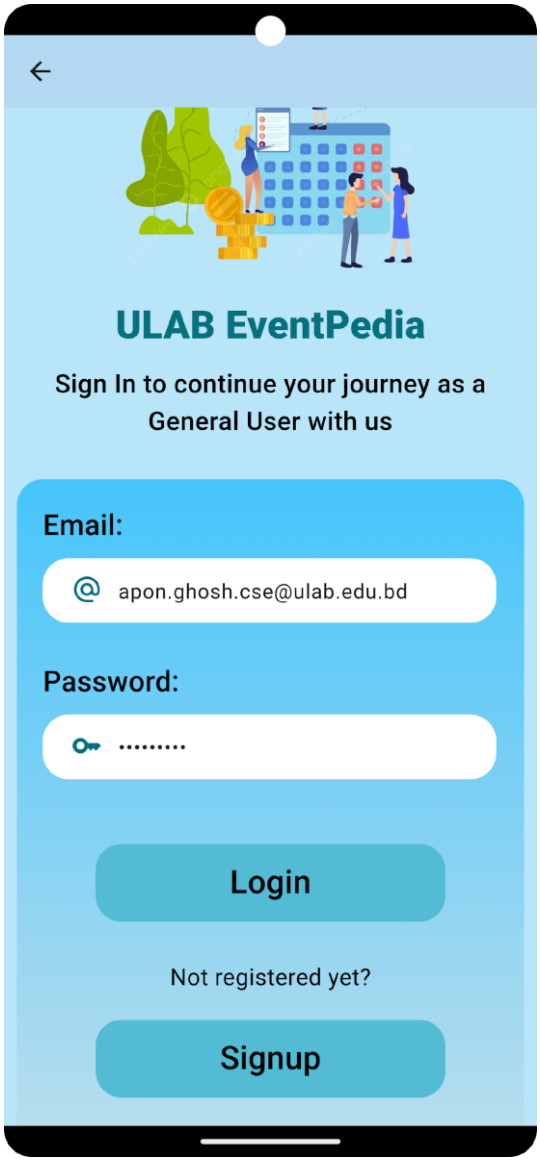

5:08
Create Events
Event Title
Event Location
Select Date: 25-4-2024
Price
Event Description
Upload Image
Create Event
Create Events

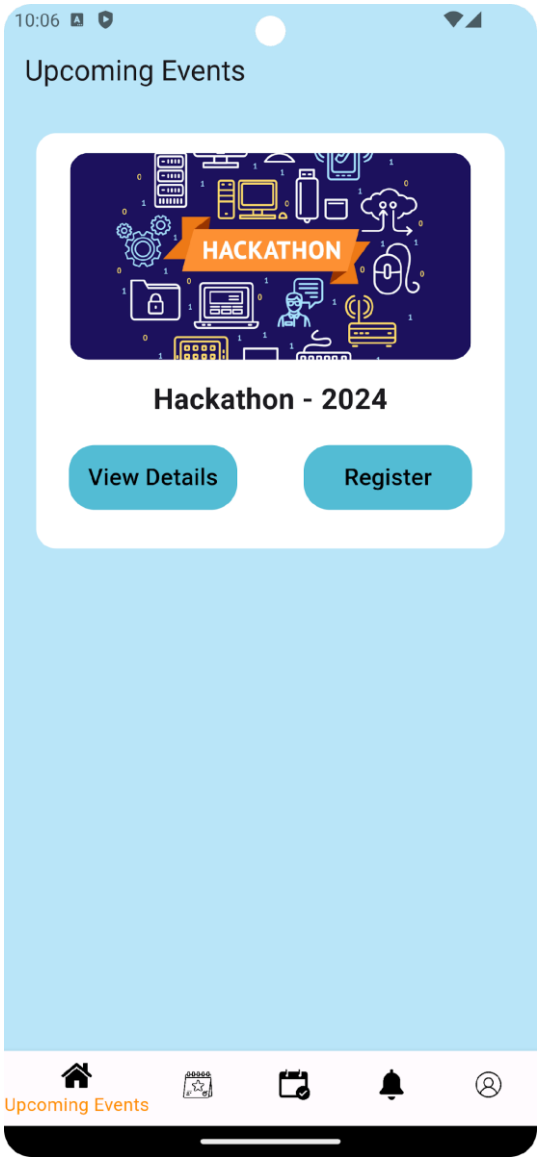

5:10
ULAB
CO-CURRICULAR OFFICE
Name: Co-curricular Office
Contact: 01863976201
Email: co-curricular@ulab.edu.bd
Logout
Profile

II. User Side

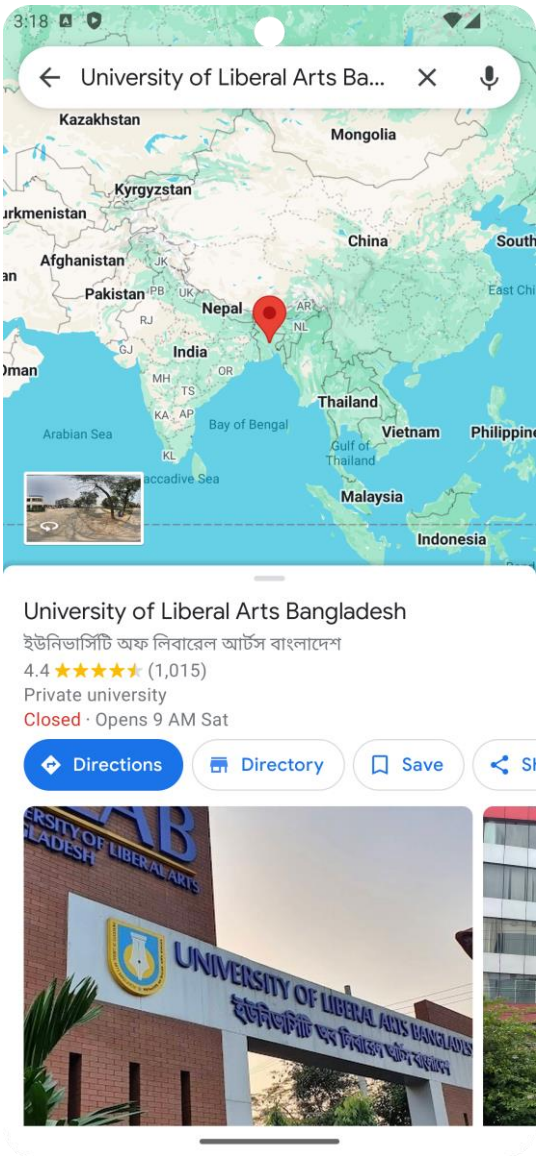

ULAB EventPedia
Sign In to continue your journey as a General User with us
Email:
@
Password:
Login
Not registered yet?
Signup

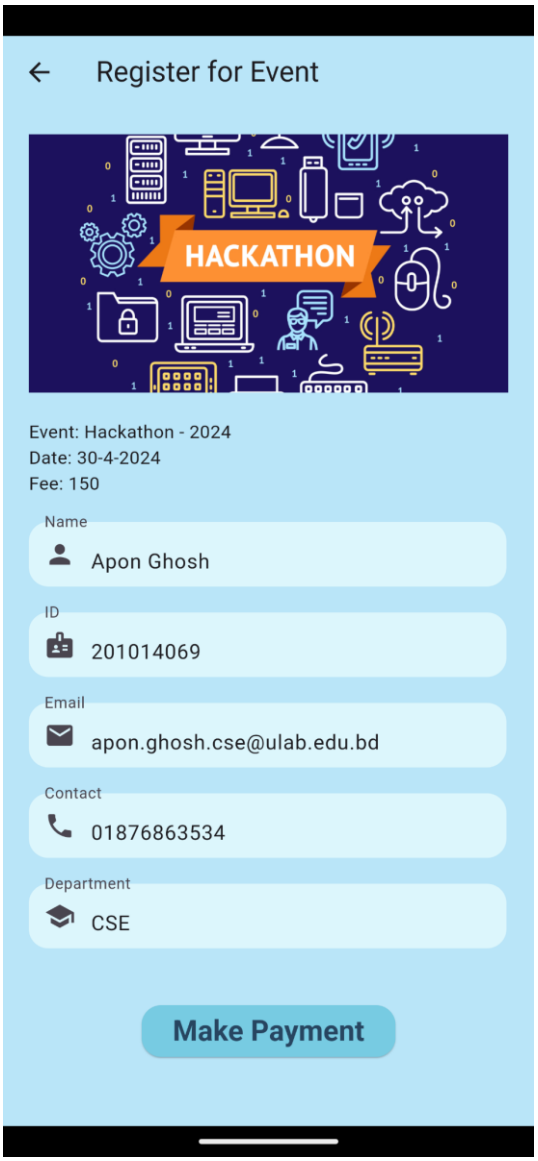

User Sign Up
Apon Ghosh
ID:
201014069
Department:
CSE
Contact:
01797506115
Email:
apon.ghosh.cse@ulab.edu.bd
Password:
....
Profile Picture:
Submit

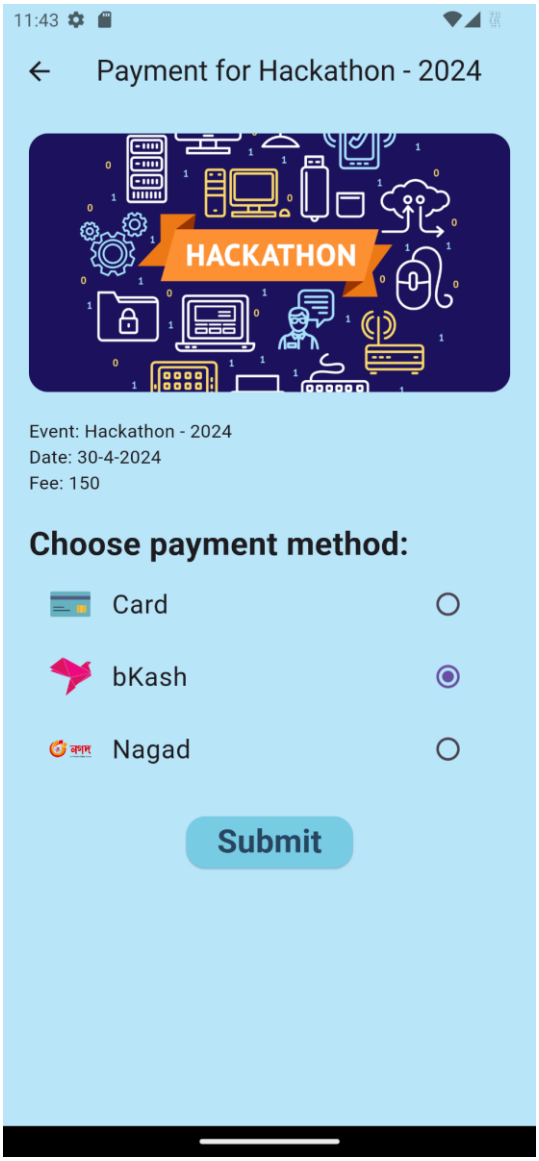

ULAB EventPedia
Sign In to continue your journey as a General User with us
Email:
apon.ghosh.cse@ulab.edu.bd
Password:
.....
Login
Not registered yet?
Signup

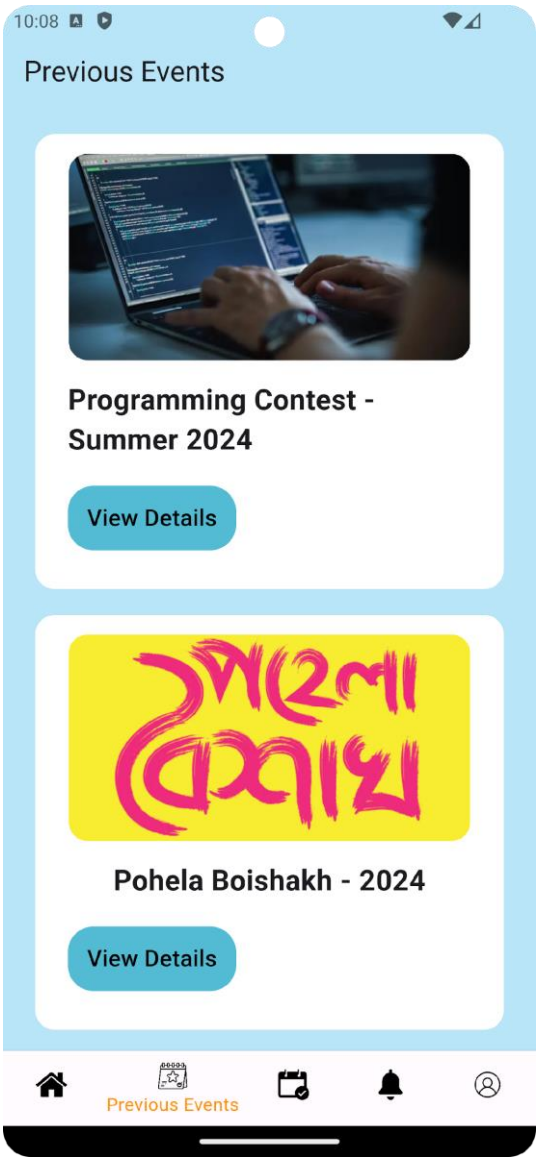

10:06
Upcoming Events
HACKATHON
Hackathon - 2024
View Details
Register
Upcoming Events

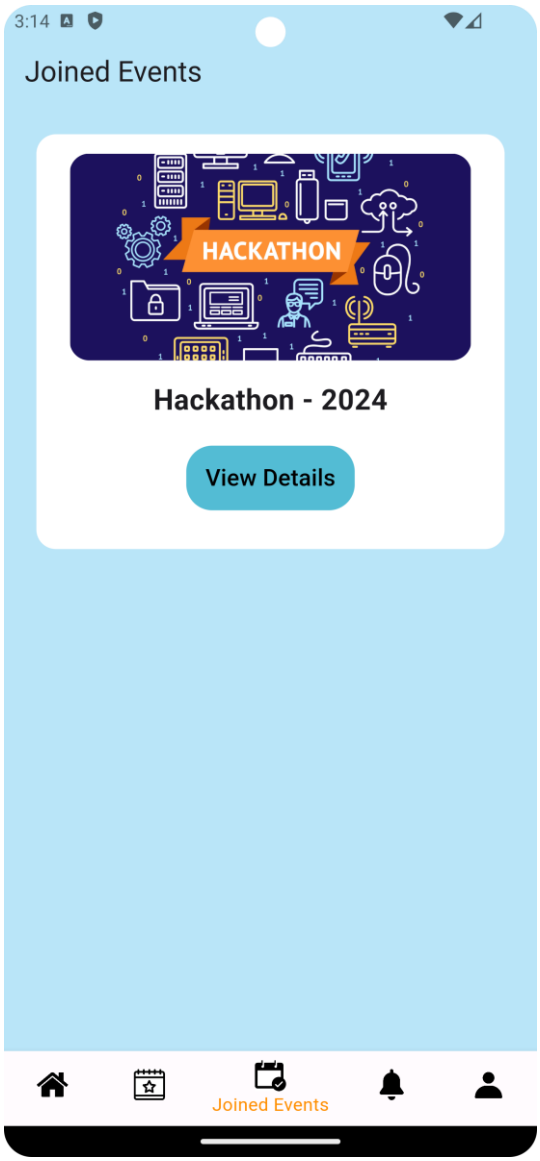

3:15
Hackathon - 2024
HACKATHON
Location: University of Liberal Art...
Date: 30-4-2024
Fee: 150
Gear up for an exhilarating journey into the world of innovation and creativity at our Hackathon event! Whether you're a seasoned coder or a novice enthusiast, this immersive experience promises to ignite your passion for problem-solving and collaboration. Join forces with like-minded individuals as you embark on a thrilling 24-hour coding marathon, where you'll have the opportunity to ideate, innovate, and develop cutting-edge solutions to real-world

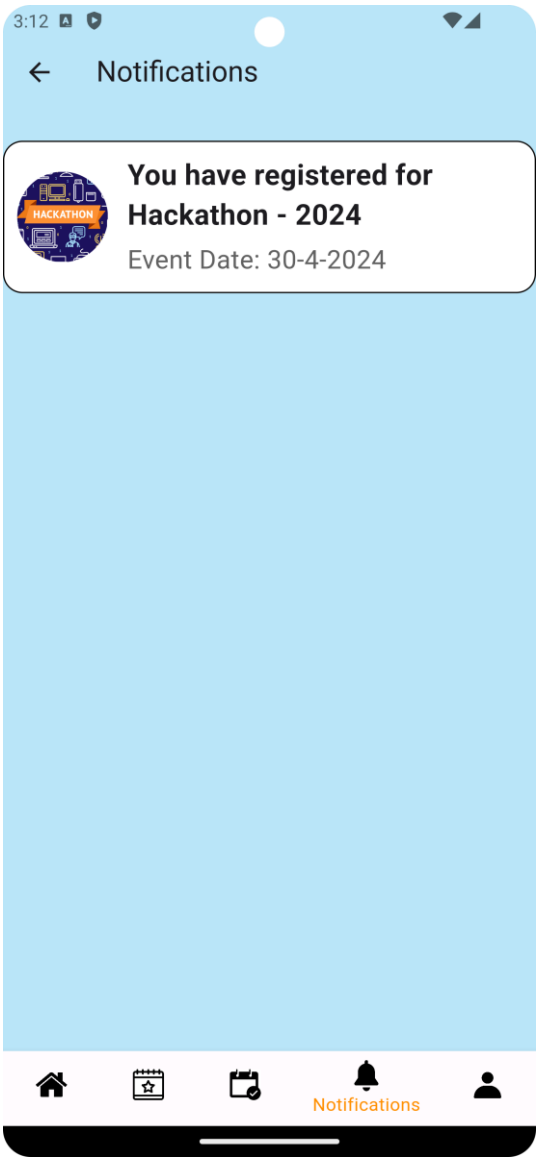

3:18
University of Liberal Arts Ba...
Kazakhstan
Mongolia
Kyrgyzstan
China
Afghanistan
Pakistan
Nepal
India
Thailand
Vietnam
Malaysia
Indonesia
Arabian Sea
Bay of Bengal
University of Liberal Arts Bangladesh
ইউনিভার্সিটি অফ লিবারেল আর্টস বাংলাদেশ
4.4 (1,015)
Private university
Closed · Opens 9 AM Sat
Directions
Directory
Save
UNIVERSITY OF LIBERAL ARTS BANGLADESH

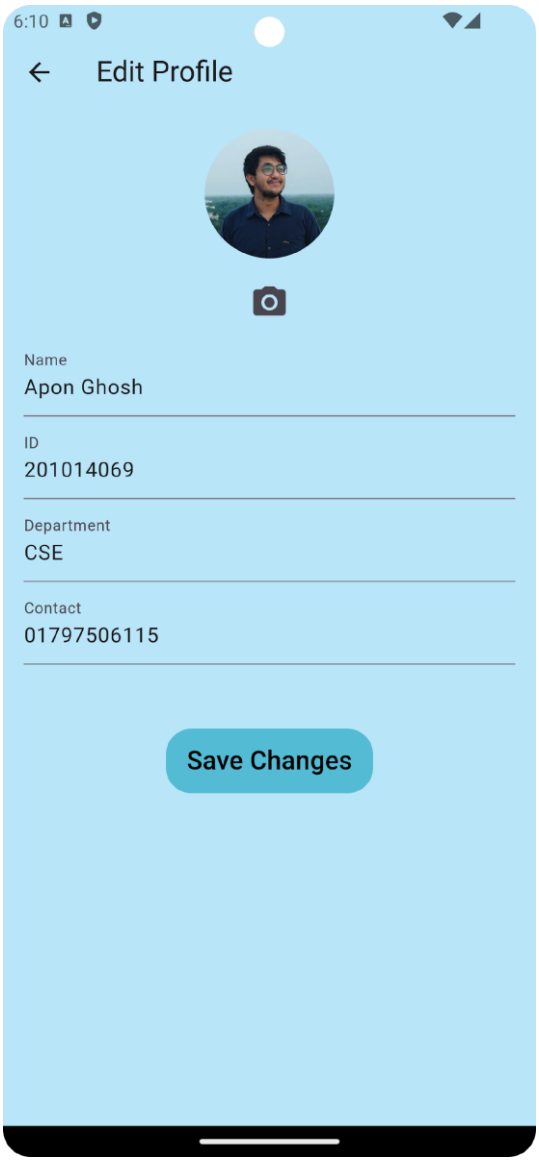

Register for Event
HACKATHON
Event: Hackathon - 2024
Date: 30-4-2024
Fee: 150
Name
Apon Ghosh
ID
201014069
Email
apon.ghosh.cse@ulab.edu.bd
Contact
01876863534
Department
CSE
Make Payment


11:43
Payment for Hackathon - 2024
HACKATHON
Event: Hackathon - 2024
Date: 30-4-2024
Fee: 150
Choose payment method:
Card
bKash
Nagad
Submit


10:08
Previous Events
Programming Contest - Summer 2024
View Details
Pohela Boishakh - 2024
View Details
Previous Events


3:14
Joined Events
HACKATHON
Hackathon - 2024
View Details
Joined Events


3:12
Notifications
You have registered for Hackathon - 2024
Event Date: 30-4-2024
Notifications


6:10
Edit Profile
Name
Apon Ghosh
ID
201014069
Department
CSE
Contact
01797506115
Save Changes


6:15
Name: Apon Ghosh
ID: 201014069
Department: CSE
Contact: 01797506115
Email: apon.ghosh.cse@ulab.edu.bd
Logout
Profile

4. Work done so far

Features Proposed	Features Done
Admin Side	
1. Sign In	✓
2. View upcoming events	✓
3. View upcoming events details	✓
4. View previous events	✓
5. Create events	✓
6. Edit events	✓
7. Delete events	✓
8. View event location via Google Maps	✓
9. View registered list of attendees	✓
10. View profile information	✓
User Side	
1. Sign Up	✓
2. Sign In	✓
3. View upcoming events	✓
4. View event location in Google Map	✓
5. View upcoming events details	✓
6. Register upcoming events	✓
7. Make online payments	partially done
8. View previous events	✓
9. View joined events	✓
10. Get notification for events	✓
11. View user profile	✓
12. Edit user profile	✓