



North South University

Department of Electrical & Computer Engineering

Course Repository

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Course Name: Mobile and Wireless Application Development

Course No: CSE 486 Sec: 01

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Git Repository: https://github.com/NSU-SU21-CSE486-1/1711593_SU21_CSE486_1

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UniCluBz

Introduction:

The app, uniclubz, is a platform for all clubs across all universities in Bangladesh. Where any university can create a profile for their club. Every university can add clubs as much as they want. Every club can add members based on their requirements. Where general students or alumni students can create their own accounts for club activities like events, join events, and request blood. This platform combines all club activities into a single platform where students can bond with alumni and create a big community.

User:

There are 3 users in this application.

1. General User
2. Admin User
3. Administration.

A general user can create an account, join clubs, create events, request blood, and participate in events.

Admin users can create accounts, manage members, create clubs, create events, manage join requests for events and clubs, create blood requests, participate in events, and so on.

Administration can handle all the data, can add universities and clubs, and can also manage users.

Features:

The features are :

1. Sign in
2. Sign up
3. Join Club
4. Create Events
5. Join Events
6. Create Blood Request

Sign in

Any User can Login their account by putting their email and password.

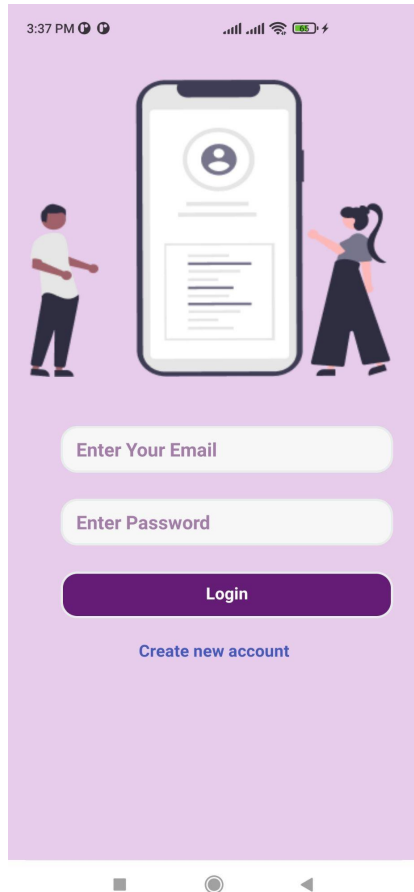


Figure 01 : Sign in Screen.

If the user doesn't have any accounts yet, then they click on "Create an account."

Sign up

Any User can create their account by putting their email and password

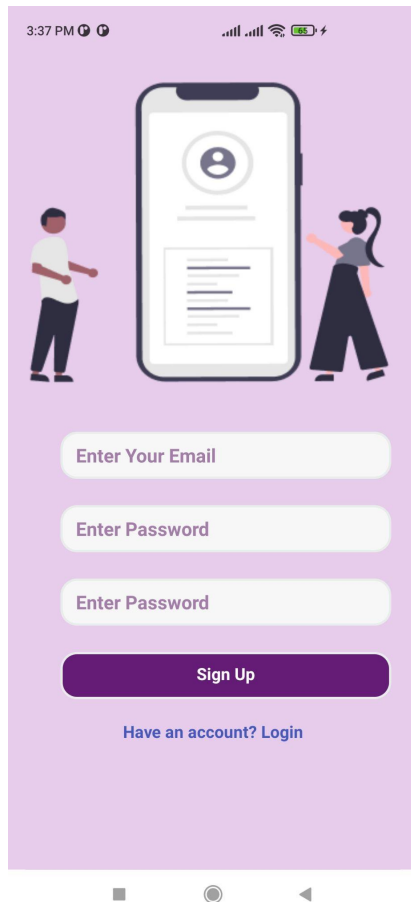
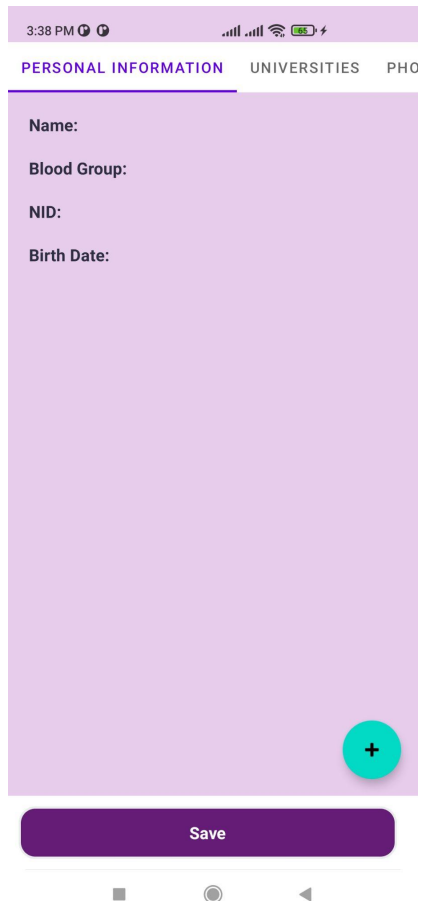


Figure 02 : Sign Up Screen.

After creating an account, when a user clicks on the "Sign Up" button, they will go to their profile settings.

Profile Settings

Here, users can set their basic information and universities as much as they want, and also add their multiple phone numbers.



The screenshot displays a mobile application interface for profile settings. At the top, a status bar shows the time as 3:38 PM and various system icons. Below this, a navigation bar contains three tabs: 'PERSONAL INFORMATION' (highlighted in purple), 'UNIVERSITIES', and 'PHONE NUMBERS'. The main content area is a large purple rectangle. On the left side of this rectangle, the following labels are listed vertically: 'Name:', 'Blood Group:', 'NID:', and 'Birth Date:'. In the bottom right corner of the purple area, there is a teal circular button with a white plus sign. At the very bottom of the screen, there is a dark purple button labeled 'Save'. The bottom of the image shows the standard Android navigation bar with back, home, and recent apps icons.

Figure 03 : Basic information in Profile Screen.

After clicking on the "Floating action" button, it will show an editing basic info dialogue.

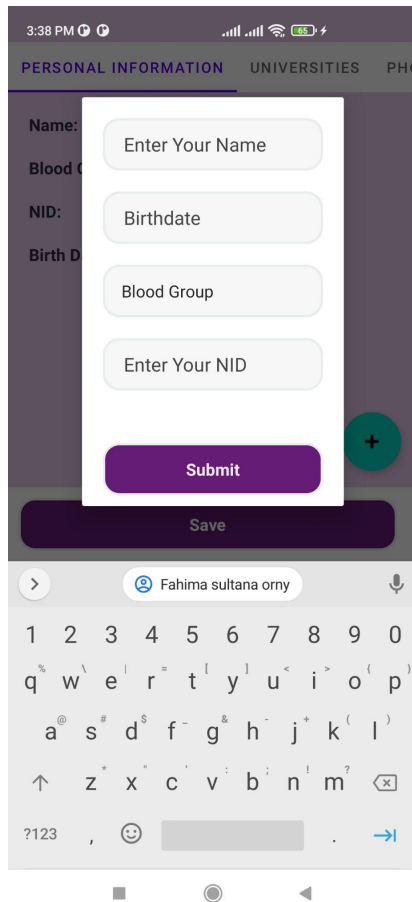


Figure 04 : Edit Personal information dialogue.

After clicking on the submit button, the personal information will be displayed.



Figure 05 : Personal information tab

Here users can see their name, blood group, nid and date of birth. By clicking on the floating action button, they can edit these information.

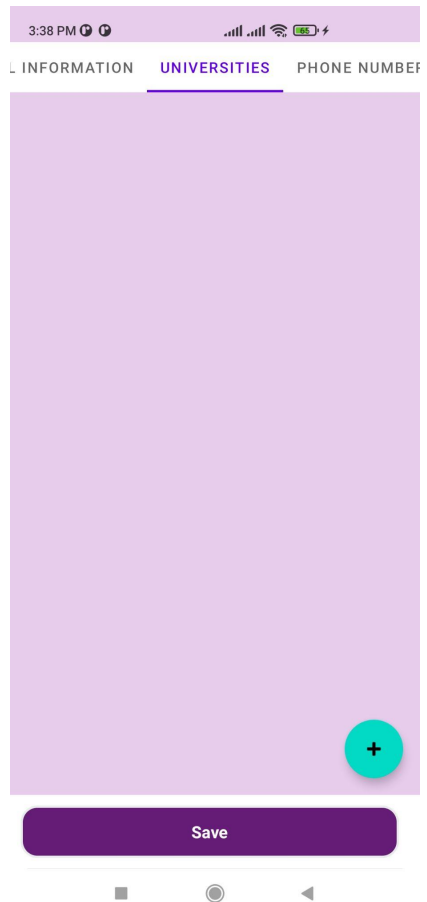


Figure 06 : University Tab screen.

After clicking on the floating action button, it will show an enter-university dialogue where the user can enter as many universities as he or she wants.

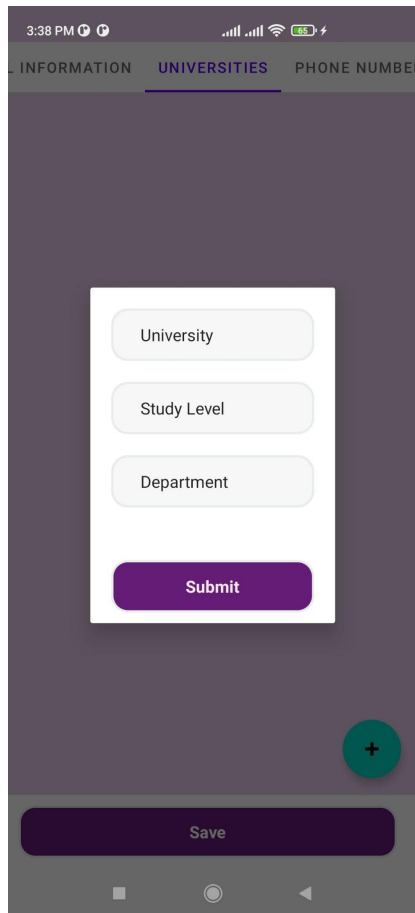


Figure 07 : Entry University Dialogue tab

In this dialog user can select university, student level and department.

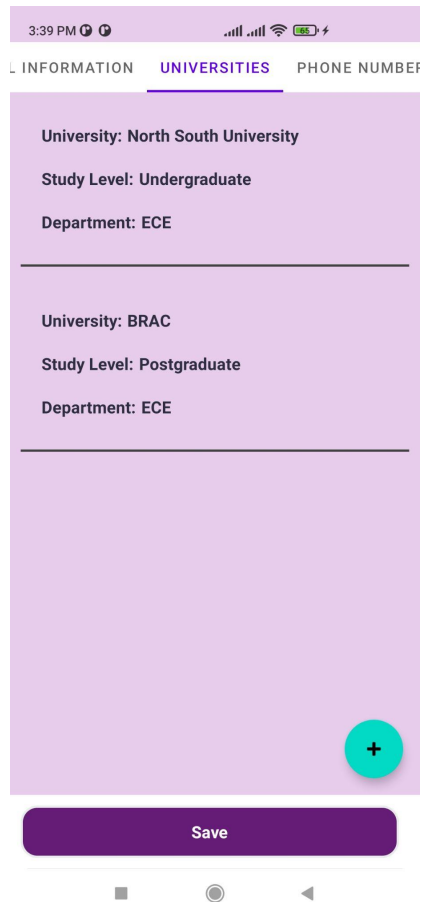


Figure 08 :University Tab with University data

After adding university information from the dialog, user can see their universities in a RecyclerView.

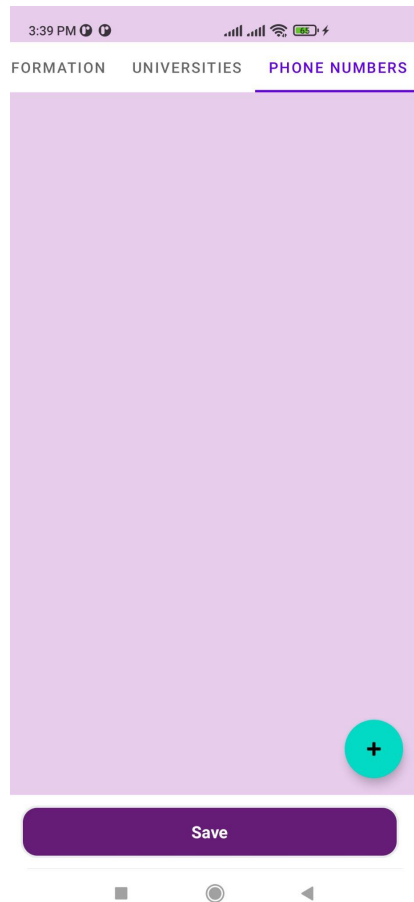


Figure 09 : Phone Number tab

While the user clicks on the floating action button, it will show an Enter phone numbers dialogue tab.

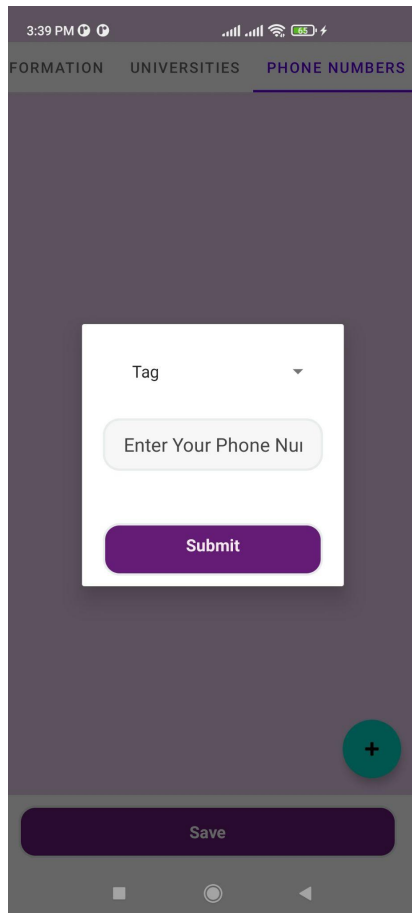


Figure 10 : Enter Phone Number Dialogue Tab

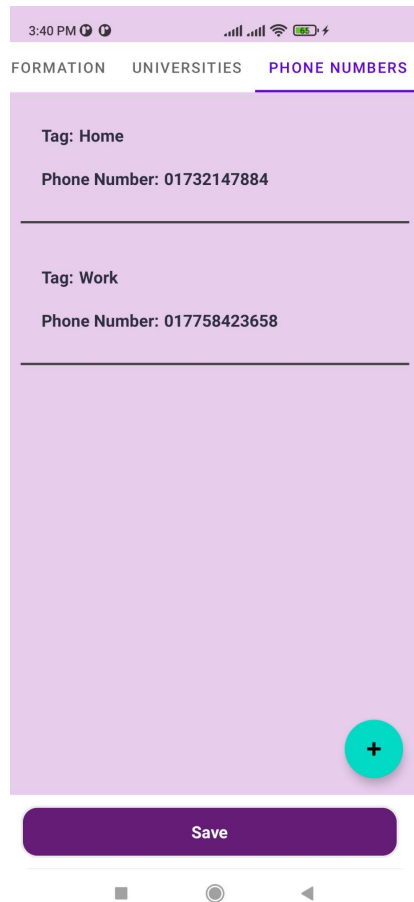


Figure 11 : Phone Number tab with Phone Numbers data

Here the user's phone number list is shown similar to the university list. After clicking on the save button, it will go to the homepage.

HomePage

On the homepage, my clubs, profile, clubs, universities, events and blood requests buttons are shown.

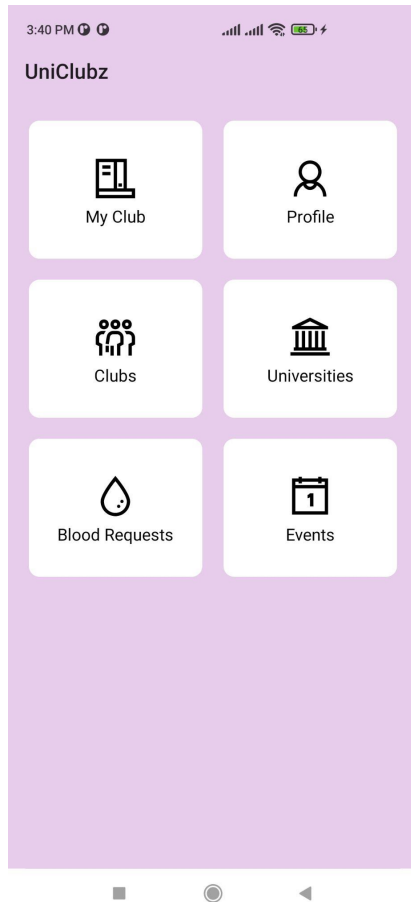


Figure 12 : Home page Screen.

Clubs

After clicking on my clubs, it will show the clubs which that user joined.

After clicking on my profile, it will go to the profile and profile settings to set the profile.

After clicking on the club, it will show the clubs of the app.

Clubs

Here, users can join clubs.

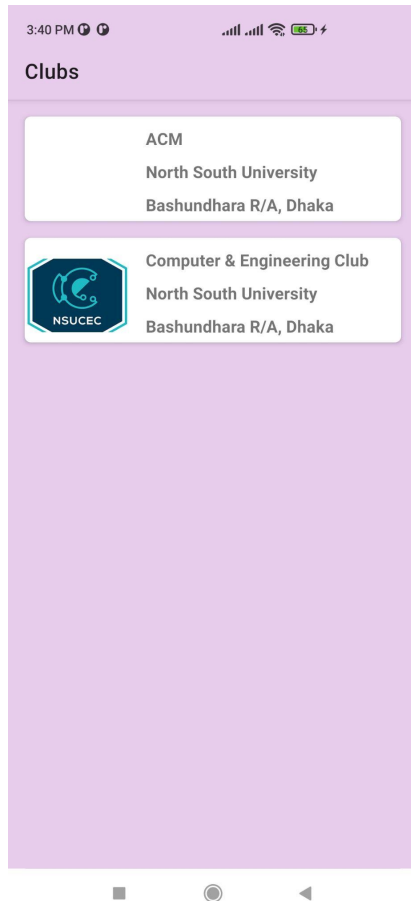


Figure 13 : Clubs Screen.

University

After clicking on University, it will show the university list.

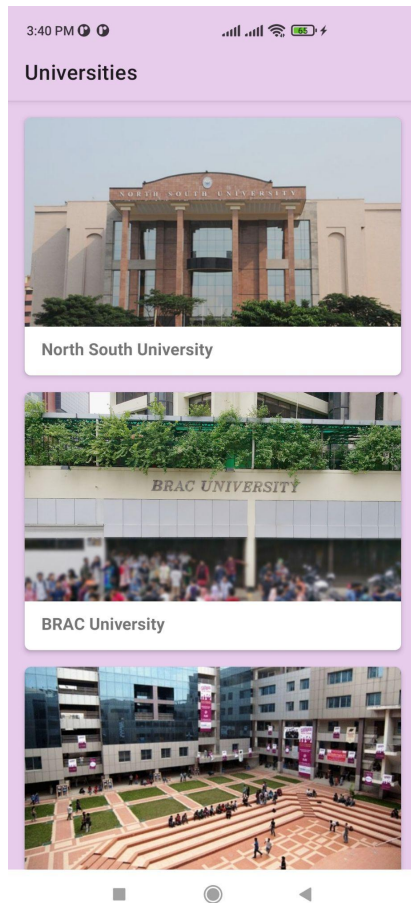


Figure 14: University List Screen.

Events

After clicking on the event, it will show the event of the app and where users can create events.

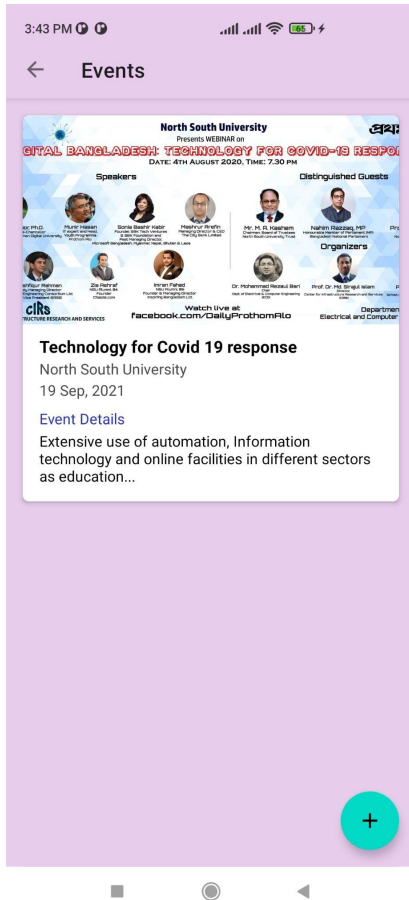


Figure 15 : Event List Screen.

Users can see all the events on this page. Each event card contains an event banner, name, date, and details.

3:43 PM

← Create Event

University

Enter Event Name

Please Enter Date

Please Enter Event's Details

Please Event Banner Link

Submit

Figure 16 : Create Event Screen.

Blood Request

After clicking on "Blood request", user will go to the blood request screen

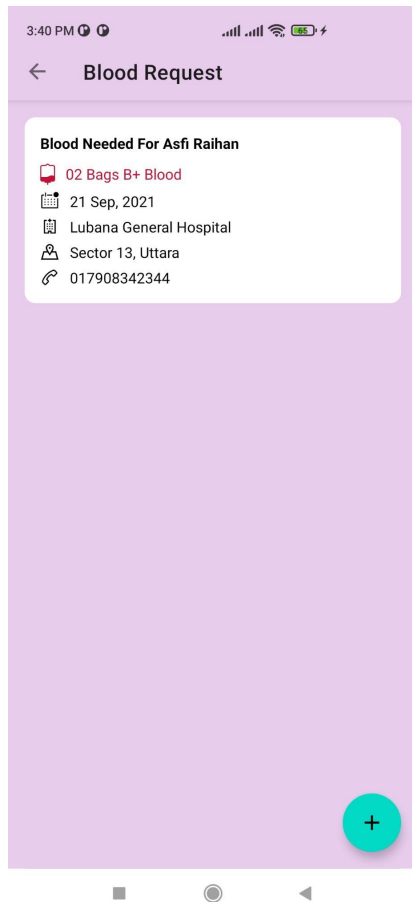


Figure 17 : Blood Request List Screen

After clicking on the floating action button, it will show a blood request screen to request blood.

6:07 PM

← Create Request For Blood

Enter contact name

Enter Date

Blood Group

Blood Bag

Enter Hospital Name

Enter Hospital Address

Enter Your Phone Number

Submit

Figure 18 : Request Blood Screen

After clicking on the phone number on the requested bloody screen post, it will go to make a call.

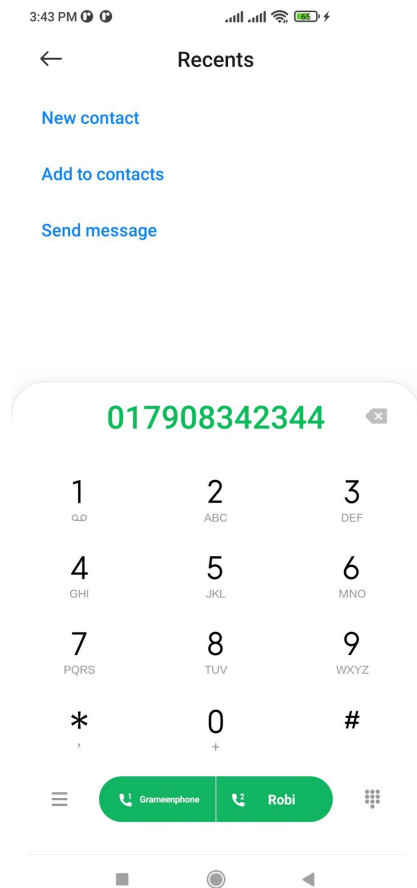


Figure 19 : To make a call Screen.

Database:

Firebase authentication was used to manage user accounts, and Firebase real-time database to store all the data of UniClubZ. After sign in and sign up, firebase authentication generates a unique ID for each account, and the in realtime database I stored the data for user profile, clubs, university, blood requests and events.

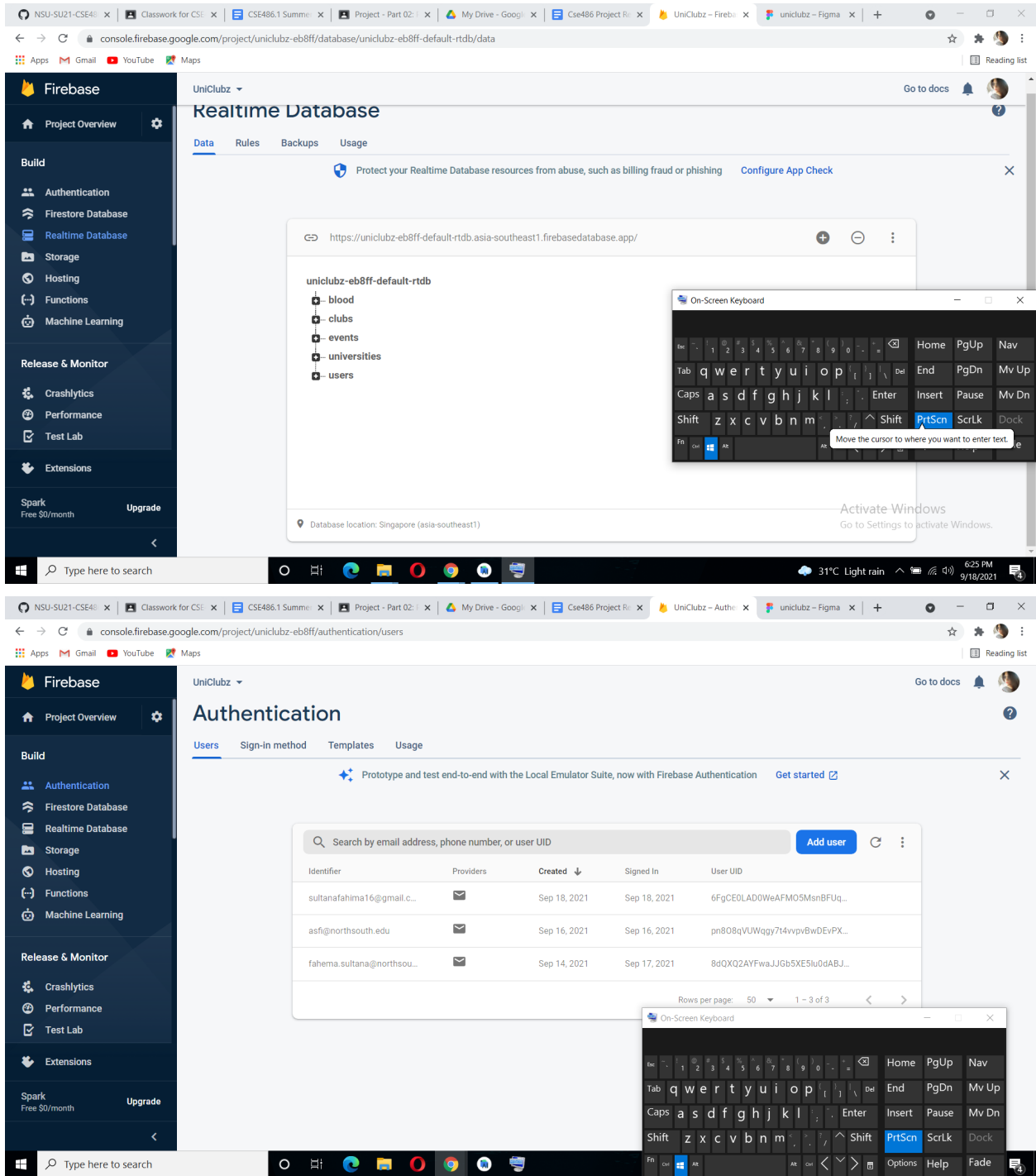


Figure 20 : Firebase Authentication and Realtime Database