

COLLEGE MANAGEMENT SYSTEM SOFTWARE



MADE BY-

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ECE-B(8th Sem)

Acknowledgments

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Introduction

The era of mobile technology opens the windows to the android app. The websites are vanishing and the mobile phones are emerging. It's the time to change from conventional websites to apps, which has become the part of our daily routine. We are introducing UIET.apk the android application software which would be a miniature of our college website. It works not only as a website, but also it can work as a small college Management software. Our multipurpose program is considering the user as either a student or faculties or office staffs individually. Project gives a total solution to everyone. The application becomes also a Mobile version of our official website. It gives us more comfort and a better user interface. It acts as an overview about the campus to a non albertian. The college history, departments, workshops, faculties, library etc & major events conducted & to review them Latest news and updates about college has got through notifications. Individual account can be created for students. It provides a college identity by admission code when u create an account. Students can share ideas about mini projects. Group discussions Department organizations can invite or make publicity to their events Application forms can be taken print. Latest news and updates about college is got through notifications.

Objectives

Simplify admission processes - The admission process involves inquiry, form sale, form submission, application, document submission, and whatnot.

Manage Programs and Course - Colleges run multiple programs and courses to have a high number of enrollments. To keep manual records of all these courses is a complex task. Our application can create and manage the different programs that are run by the institute.

Manage employee and student record - A college management system can manage the complete record of students and employees. It comes with the provision to give access to students, teachers and other employees to upload information any time they want. Information includes details of teachers of each department with their personal information like their designation, education, department, their contact information like their email ids and personal contact number(if possible). This will also give information about the Director of UIET, HOD(Head of Department) of each department with contact information.

Software Specifications

The software used for the development of this application is Android Studio. The software is used to design the layout for each part of the application and coding is also done here only. Coding is done in Java language and the backend is done with the help of Firebase(a NO-SQL database).

There are multiple layouts used in this application -

- I. **Linear Layout** -The elements are arranged as one per line.
- II. **Relative Layout** - this Layout is for specifying the elements in a position relative to each other.
- III. **Grid Layout** - This is used in the section where cards (tiles) are used to arrange the elements in a grid.
- IV. **Content View** - This is used to display the content completely.

Registration Page

1. Admin registration Page - This requires full name, email, password, phone number and faculty code are required for registration. The faculty code is used to know whether this is faculty member or a student.

8:22 0 KB/s

VoLTE 4G 84

Admin Register

Create New Account

Full Name

Email

Password

Phone

Your Faculty Code

REGISTER

Already Registered ? [Login Here](#)

2. Student Register-

8:22 0 KB/s

Student Register
Create New Account

Full Name

Email

Password

Phone

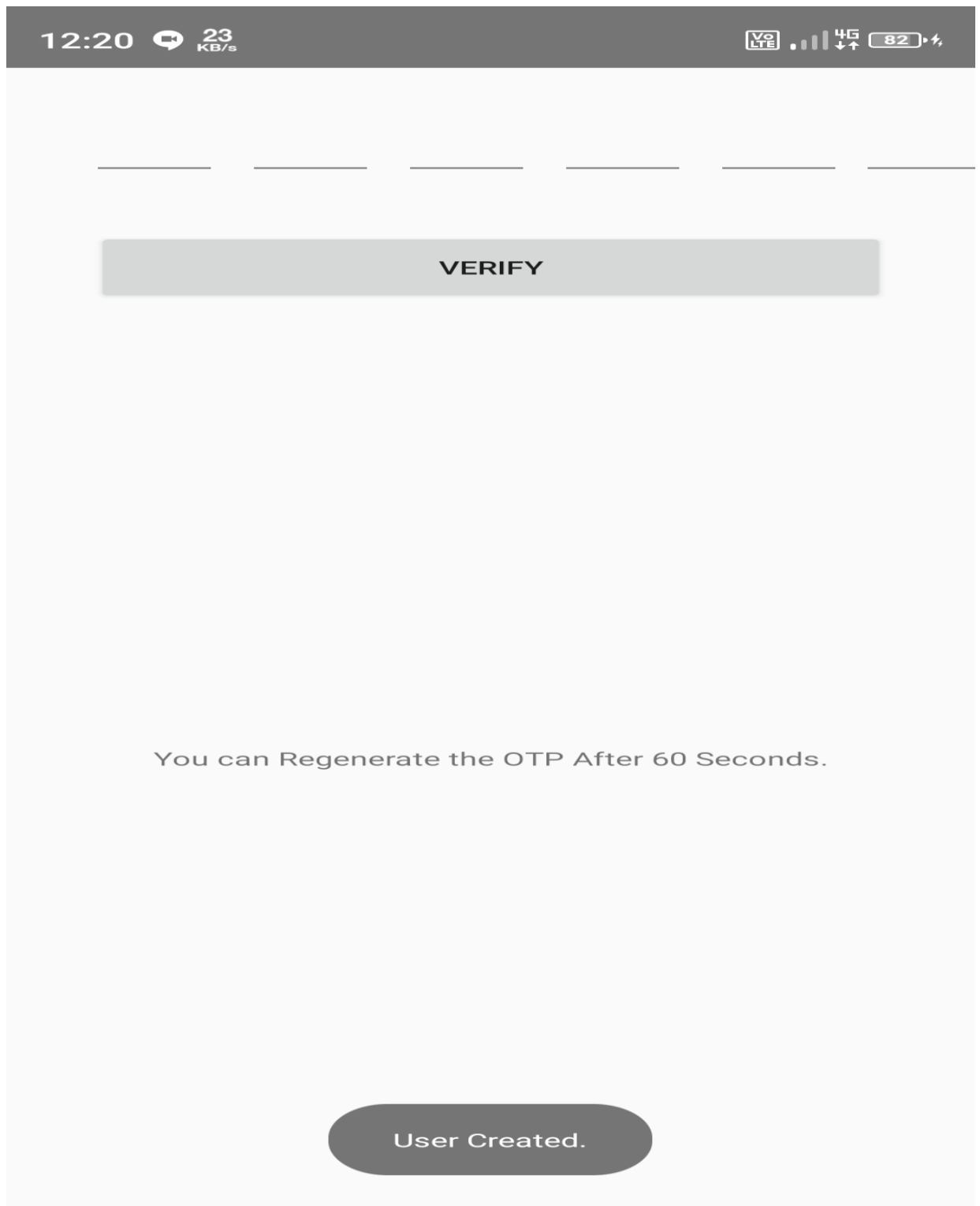
REGISTER

Already Registered ? Login Here

The particulars for student registration are full name, email address, password and phone number.

When the user enters their phone number ,an OTP is sent to their phone number. After the verification the user is able to create an account .

Phone Authentication



Login Page

1. Admin Login Page -



The screenshot shows a mobile application interface for an Admin Login page. The background is a solid light purple color. At the top, there is a dark grey status bar with the time 7:55, a speed indicator of 0 KB/s, and icons for LTE, 4G, and battery level at 86%. The main content area features the text "Admin Login" in a large, bold, black serif font, with "Create New Account" in a smaller, bold, black sans-serif font directly below it. Below the text are two white input fields with black labels: "Email" and "Password". Underneath these fields is a grey rectangular button with the word "LOGIN" in bold, black, uppercase letters. Below the button, there are two lines of text: "New Here ? Create Account" and "Forgot Password ?". At the bottom of the page, the text "STUDENT PORTAL" is displayed in a bold, black, uppercase sans-serif font.

This is the login page for admin(faculty).New users can redirect to the registration page and can also change their passwords,if forgotten.

Student Login Page -

7:55 0 KB/s VoLTE 4G LTE 86%

Student Login

Create New Account

Email

Password

LOGIN

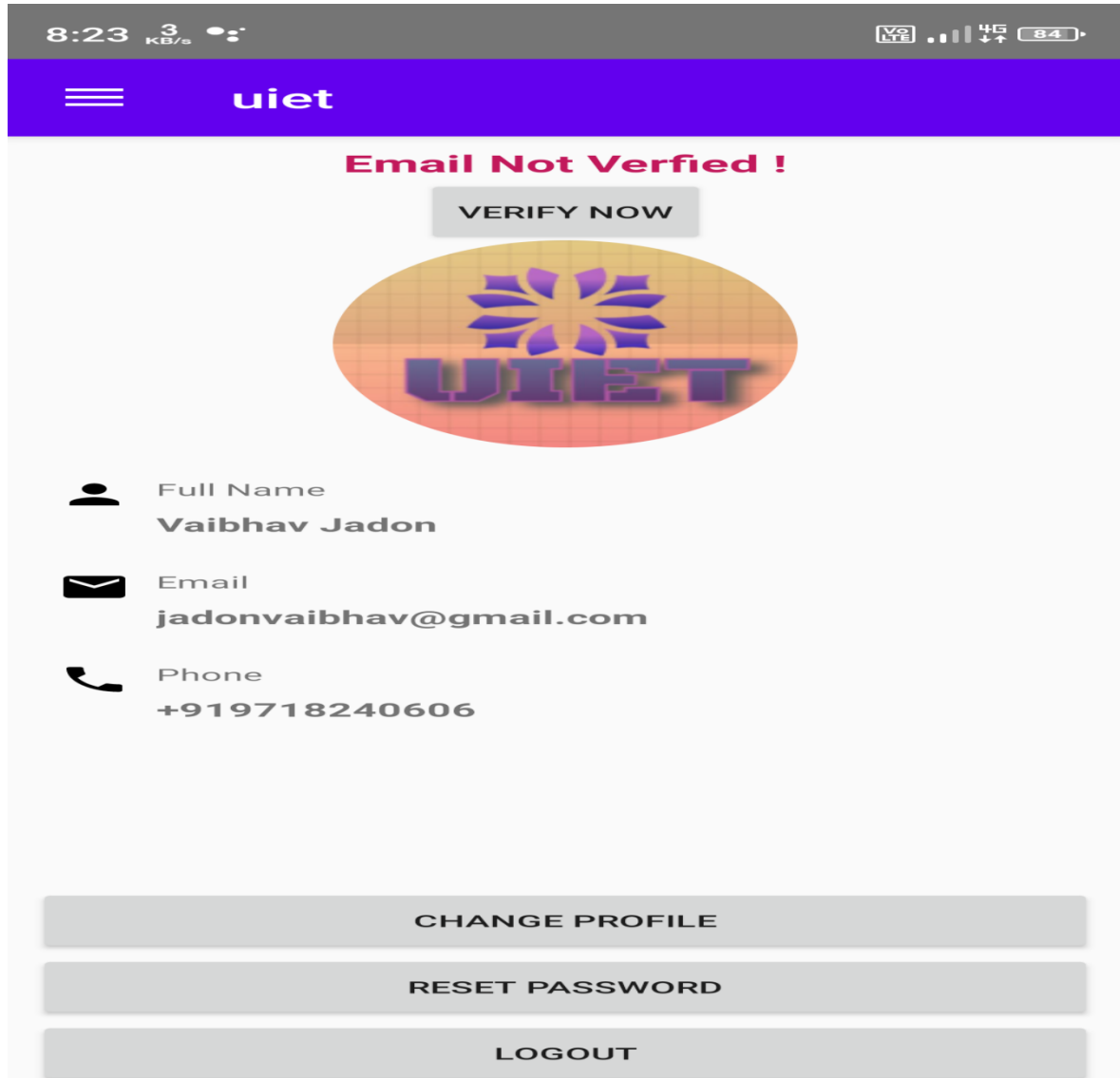
New Here ? Create Account

Forgot Password ?

ADMIN PORTAL

This is the student login page. The user can login into their accounts and also get to the registration page for new user and change their forgotten passwords.

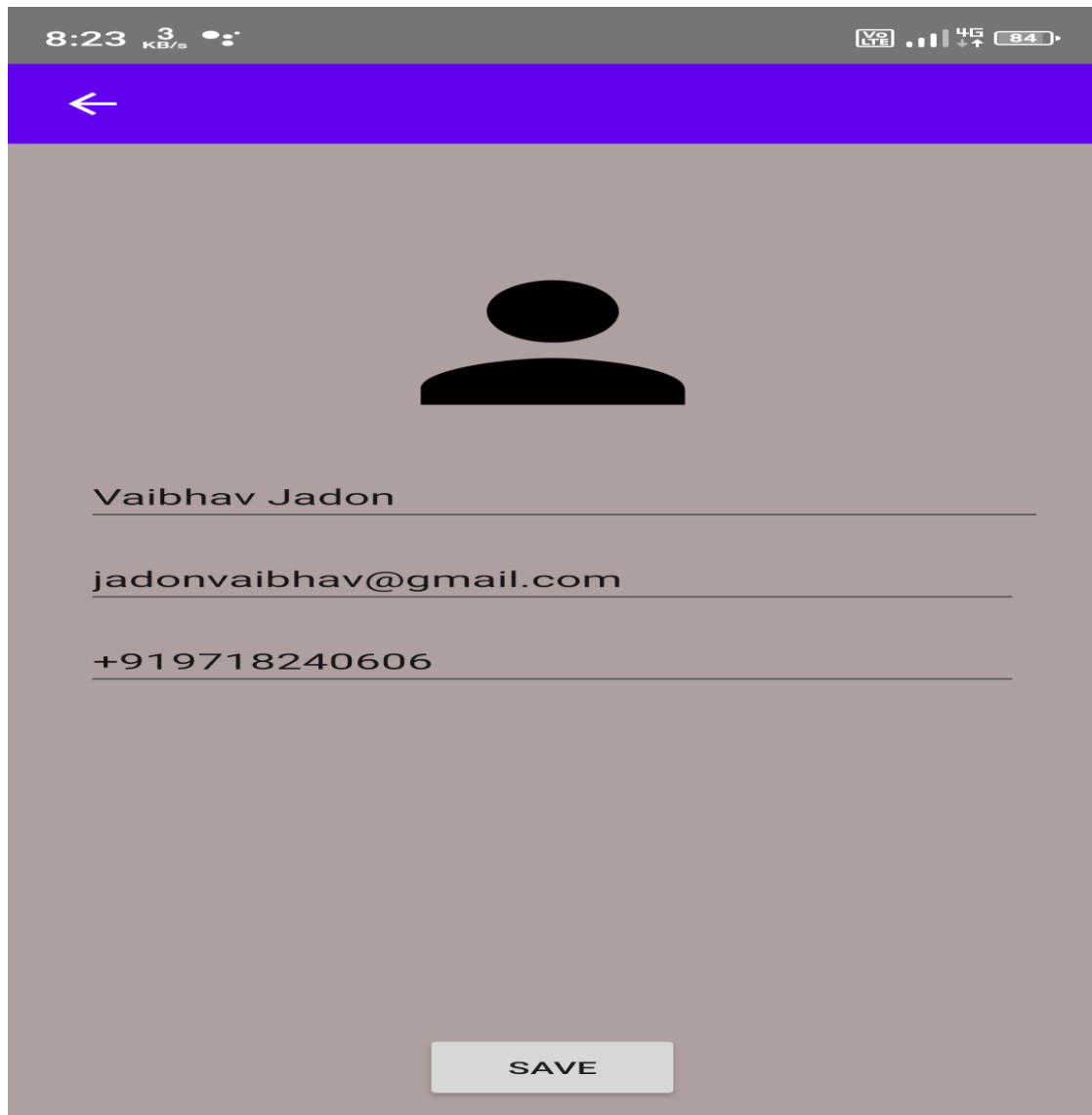
Profile Page



There is a photo,name,email,phone number displayed of the user.


User can change their profile , reset their password and logout of the account.

Edit Profile Page



8:23 3 KB/s VoLTE 4G 84

←



Vaibhav Jadon

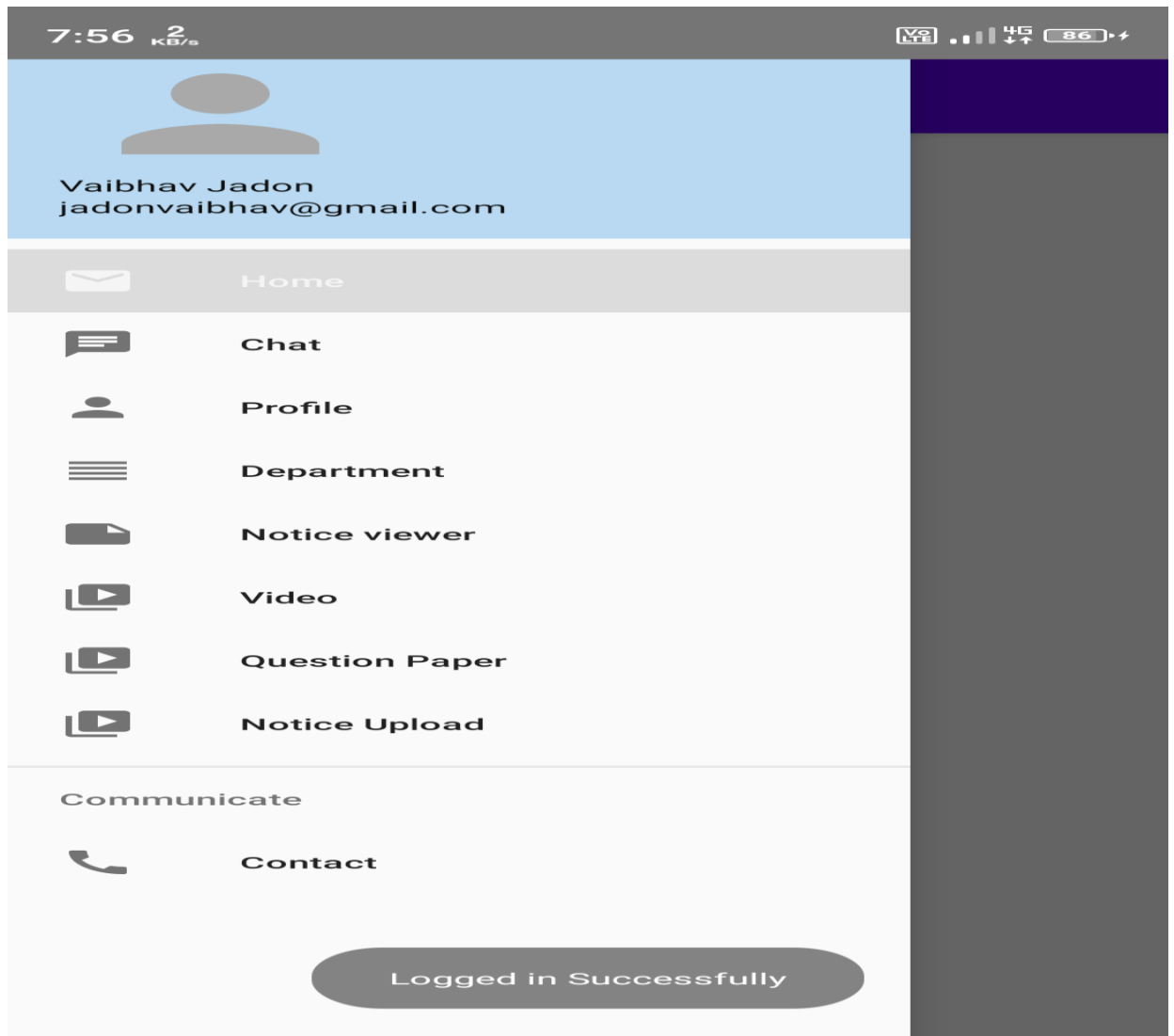
jadonvaibhav@gmail.com

+919718240606

SAVE

This the edit profile page. The change profile button on the profile page will redirect to this page. The user can change their name, their email address and their phone number.

Navigation Drawer



This is the fragment bar. At the top of the Navigation drawer , there will be a photo, name and email address of the user displayed. There will be multiple buttons which will redirect the user to the specific part of the application.

All of these are described below in detail:

Home

The Home Button brings you to the homepage of the application. This contains the look as it is on the website where a slider shows different photos of UIET.

After that special thoughts spoken by the Director or Vice-Chancellor are shown here. There are minimized blocks of UIET at glance and Vision and Mission of UIET which can be clicked and read.



Messages



Prof. Som Nath

Vice-Chancellor,

*It is a matter of
great pride that UIET*



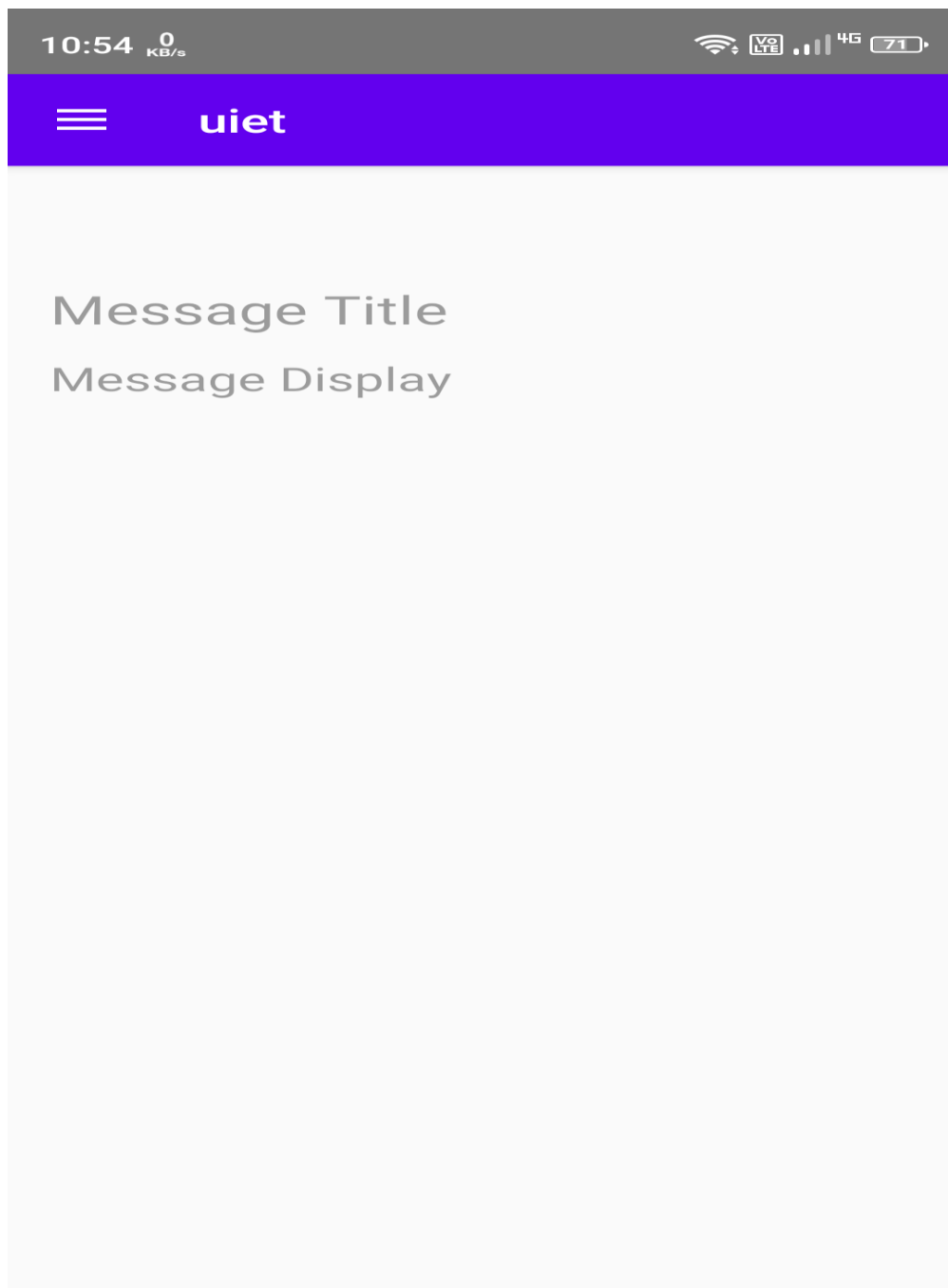
Prof. C.C. Tripathi

Director, UIET KUK

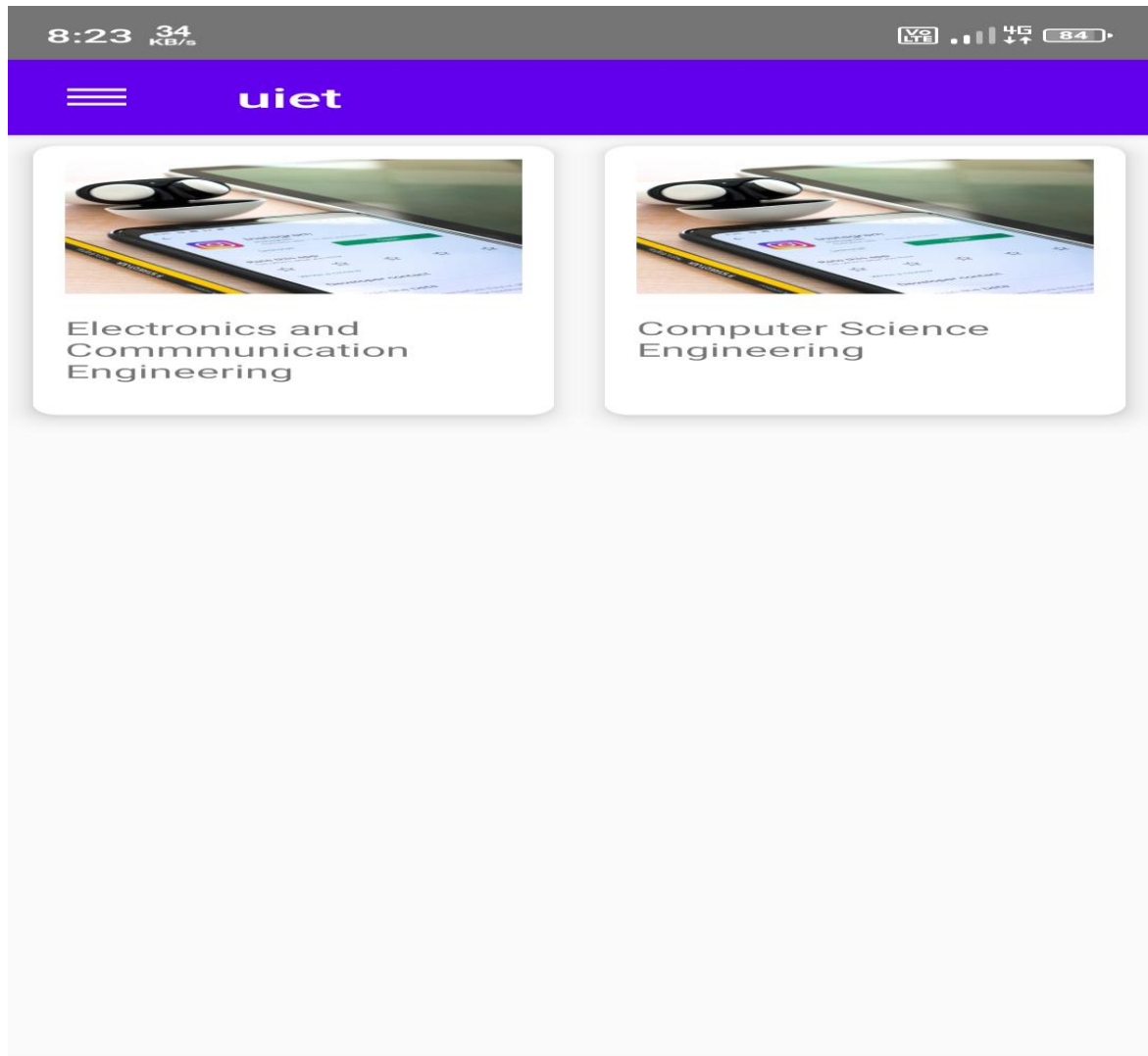
*It gives me
immense pleasure*

Chat

This window displays the messages given by Director or HODs for any special arrangement in the college like seminar, meeting, company visits etc.



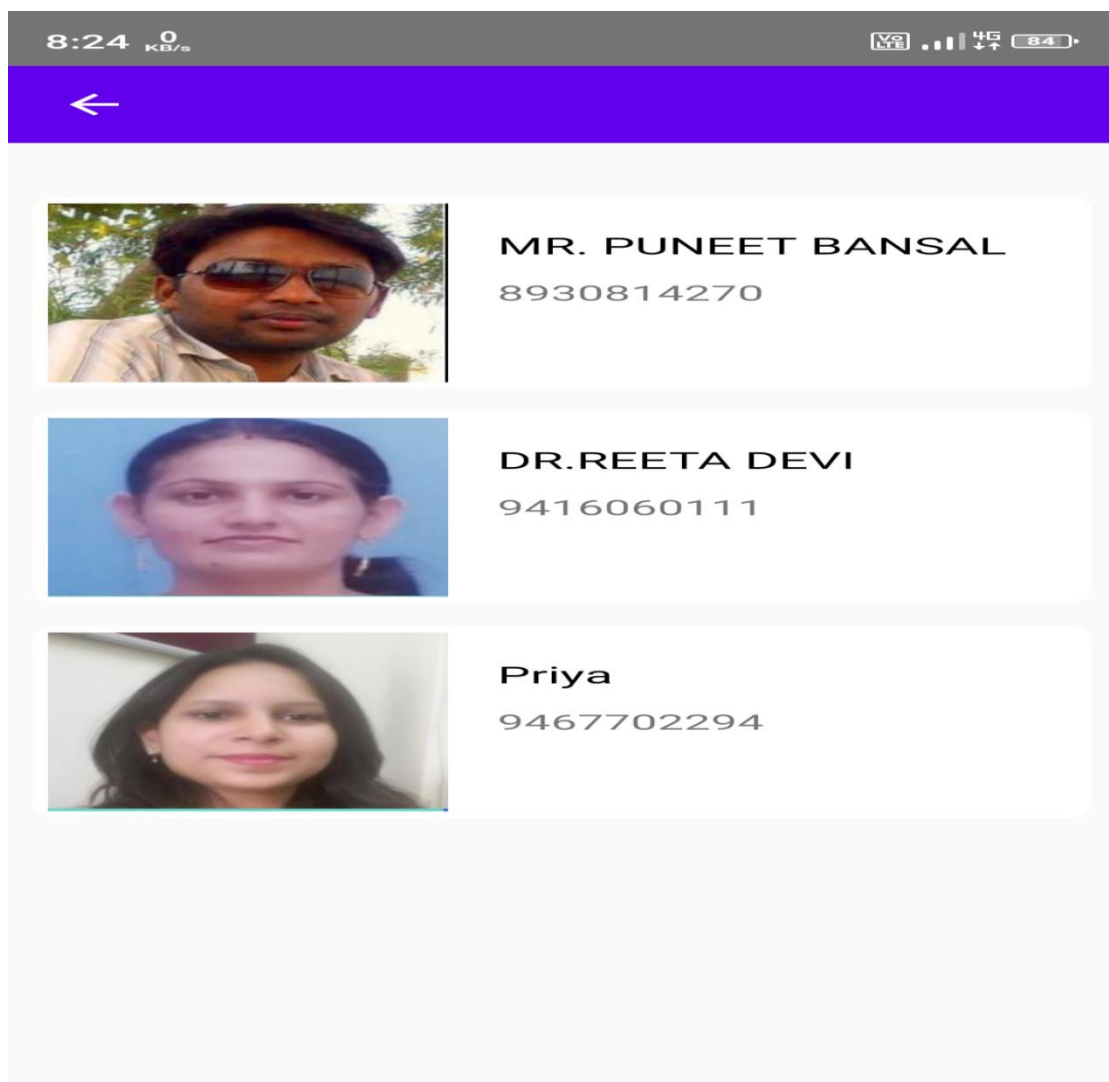
Department



This part will show number of departments. After clicking, it will also show the name of department and the information like faculty head,HOD and the faculty information.

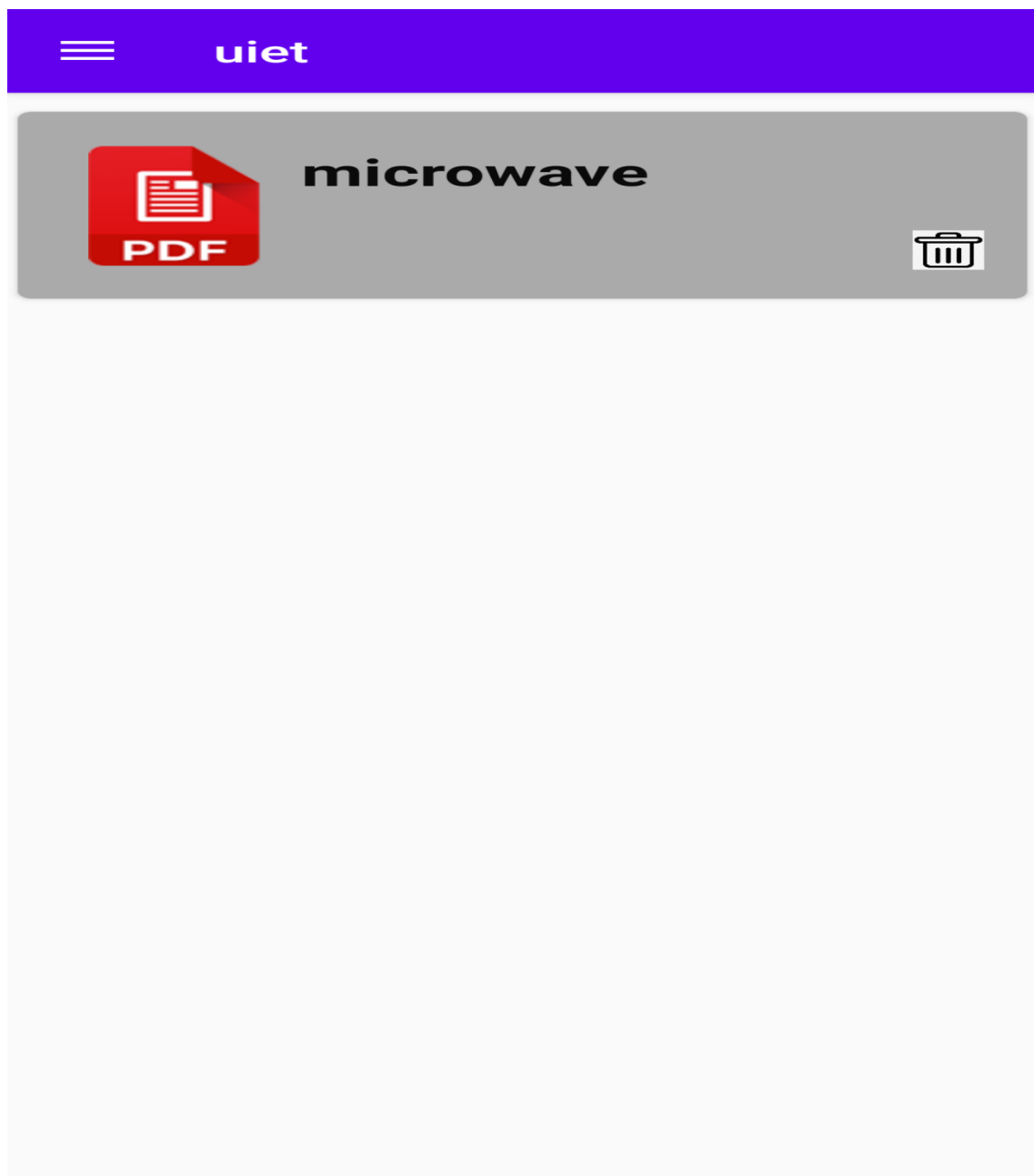
Faculty information -

This below is the faculty information page. Here faculty name, email address and phone number will be displayed.



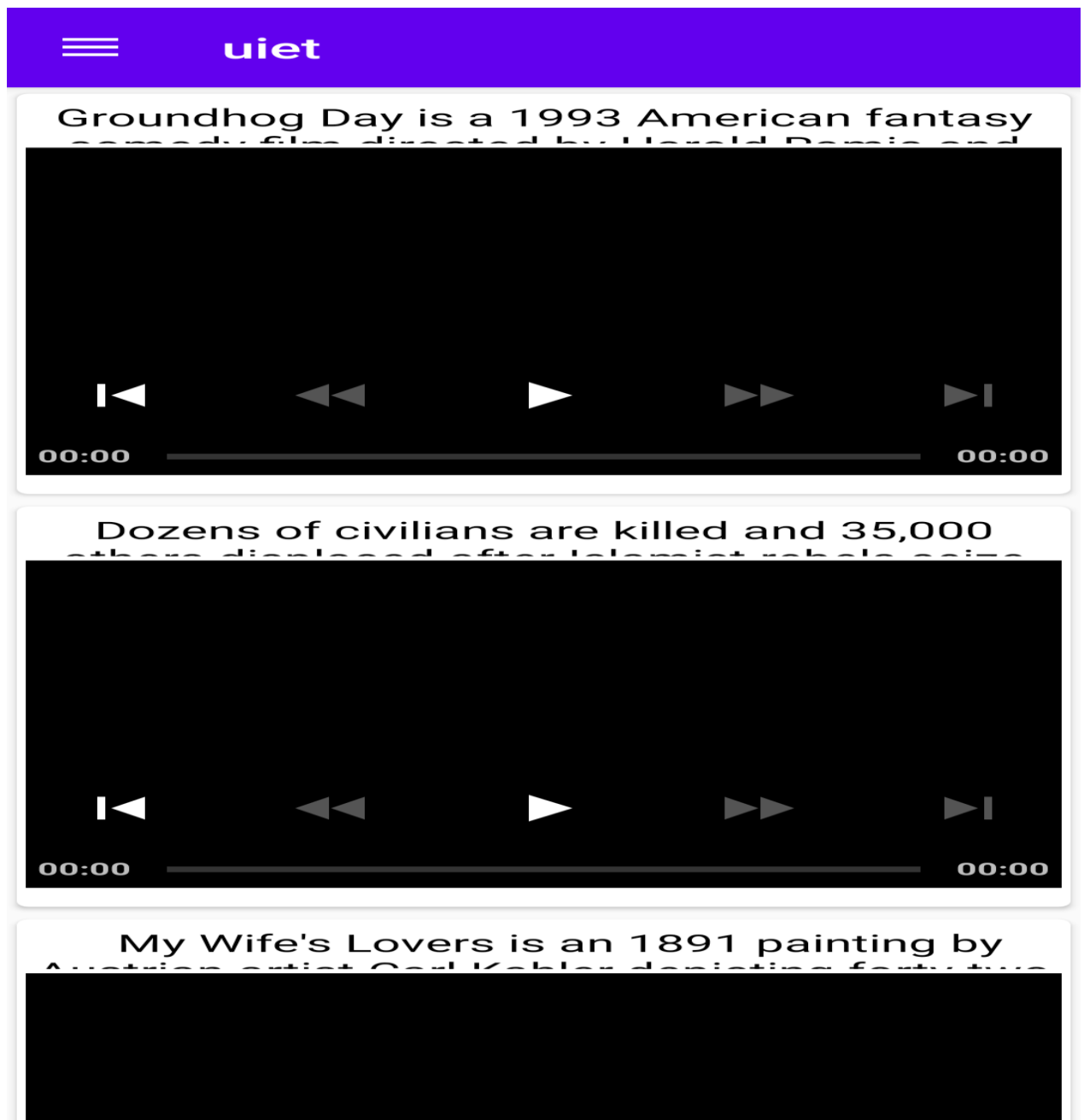
Notice Viewer

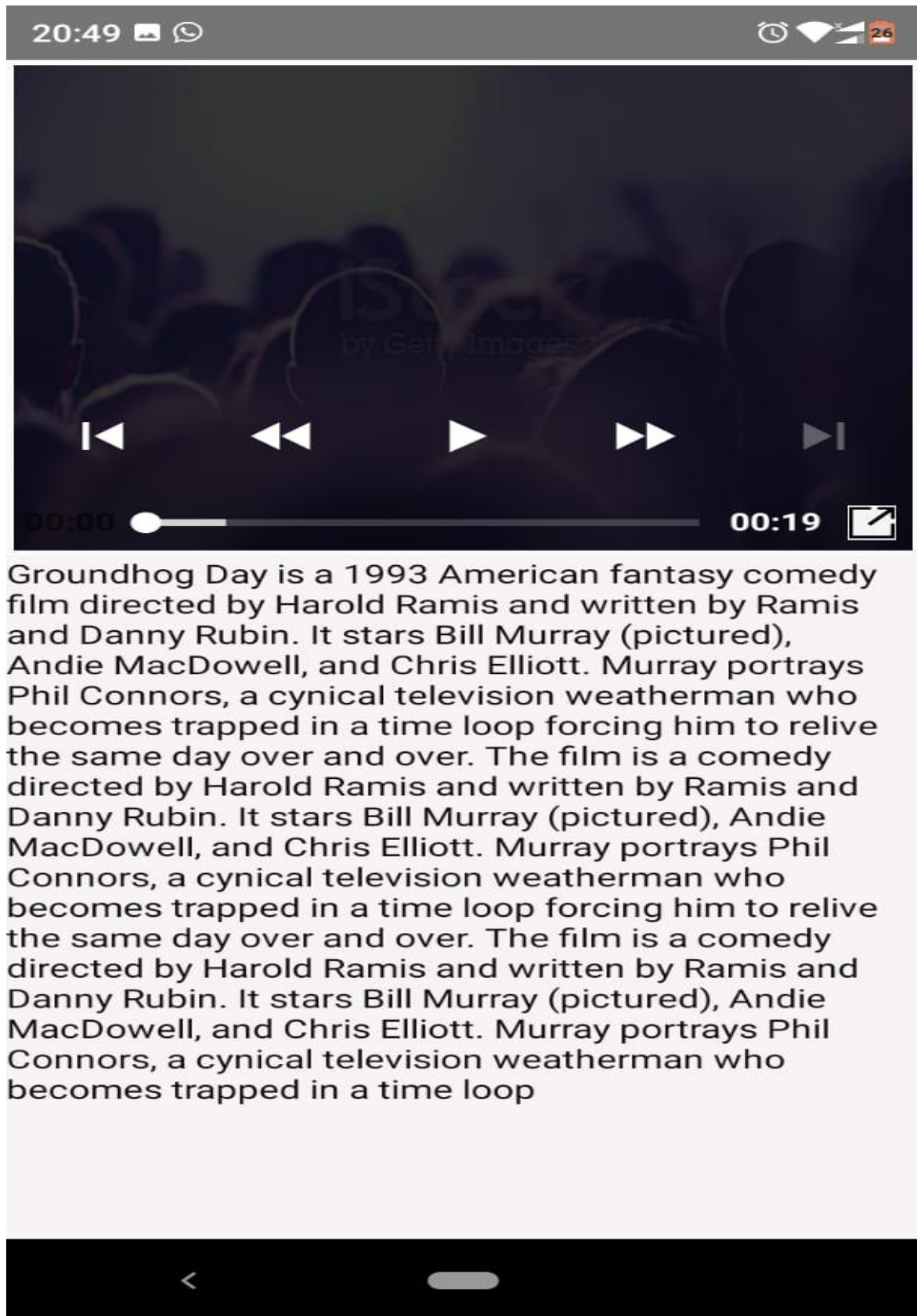
This is for viewing notices, PDFs ,assignments uploaded by the faculty.



Videos

This is another page in the navigation drawer for the UIET to upload videos of workshop or lectures being held in college. This is the page where videos will be shown in the form of cards. After clicking on any video, it will open another page where the video and its information will be available.





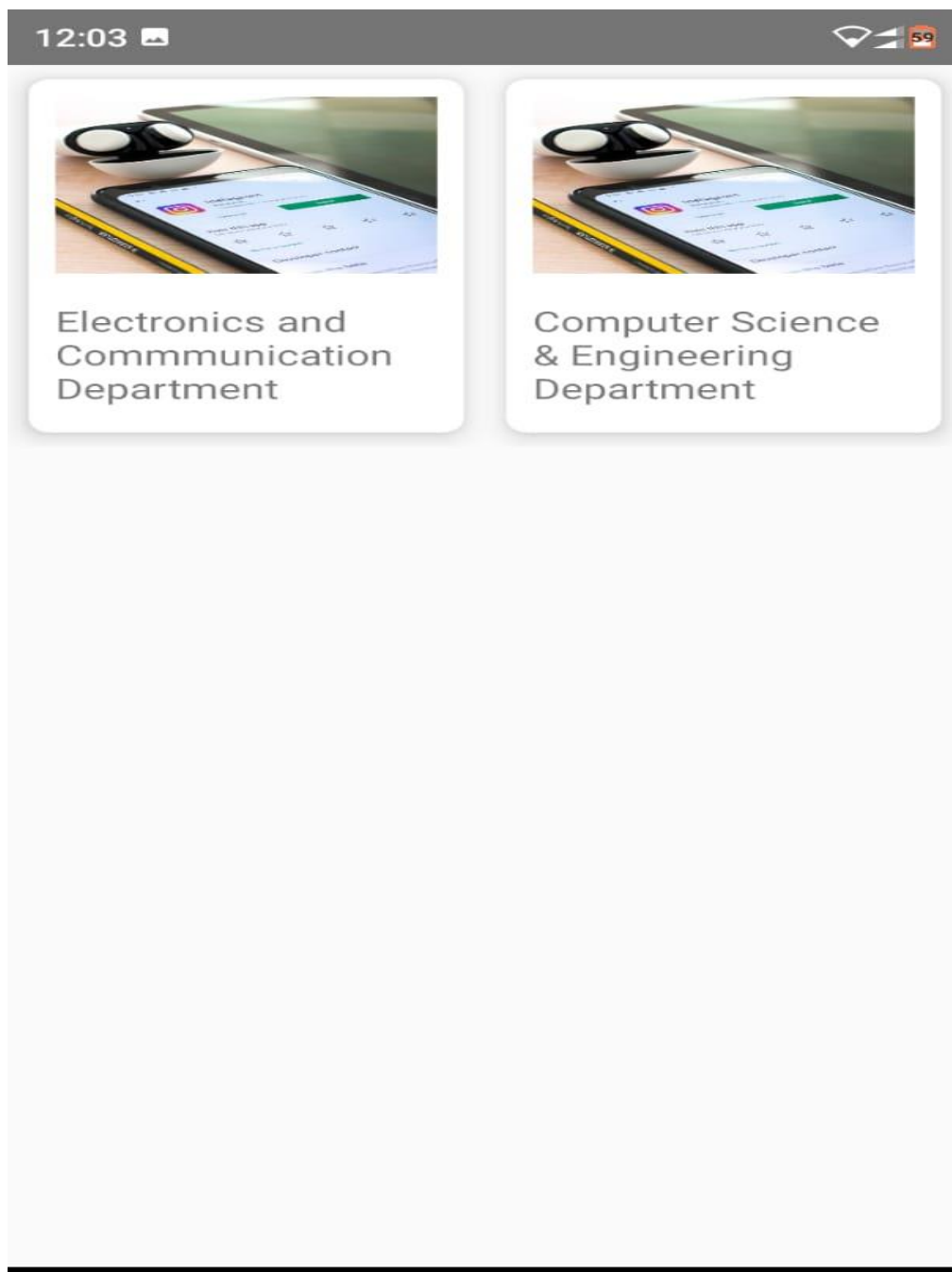
Groundhog Day is a 1993 American fantasy comedy film directed by Harold Ramis and written by Ramis and Danny Rubin. It stars Bill Murray (pictured), Andie MacDowell, and Chris Elliott. Murray portrays Phil Connors, a cynical television weatherman who becomes trapped in a time loop forcing him to relive the same day over and over. The film is a comedy directed by Harold Ramis and written by Ramis and Danny Rubin. It stars Bill Murray (pictured), Andie MacDowell, and Chris Elliott. Murray portrays Phil Connors, a cynical television weatherman who becomes trapped in a time loop forcing him to relive the same day over and over. The film is a comedy directed by Harold Ramis and written by Ramis and Danny Rubin. It stars Bill Murray (pictured), Andie MacDowell, and Chris Elliott. Murray portrays Phil Connors, a cynical television weatherman who becomes trapped in a time loop

Question Paper Drawer

This section will contain the previous year question paper of each subject of each Department for the ease of access.

Students can access the content from anywhere.

They don't need to search the papers in the library.



12:03

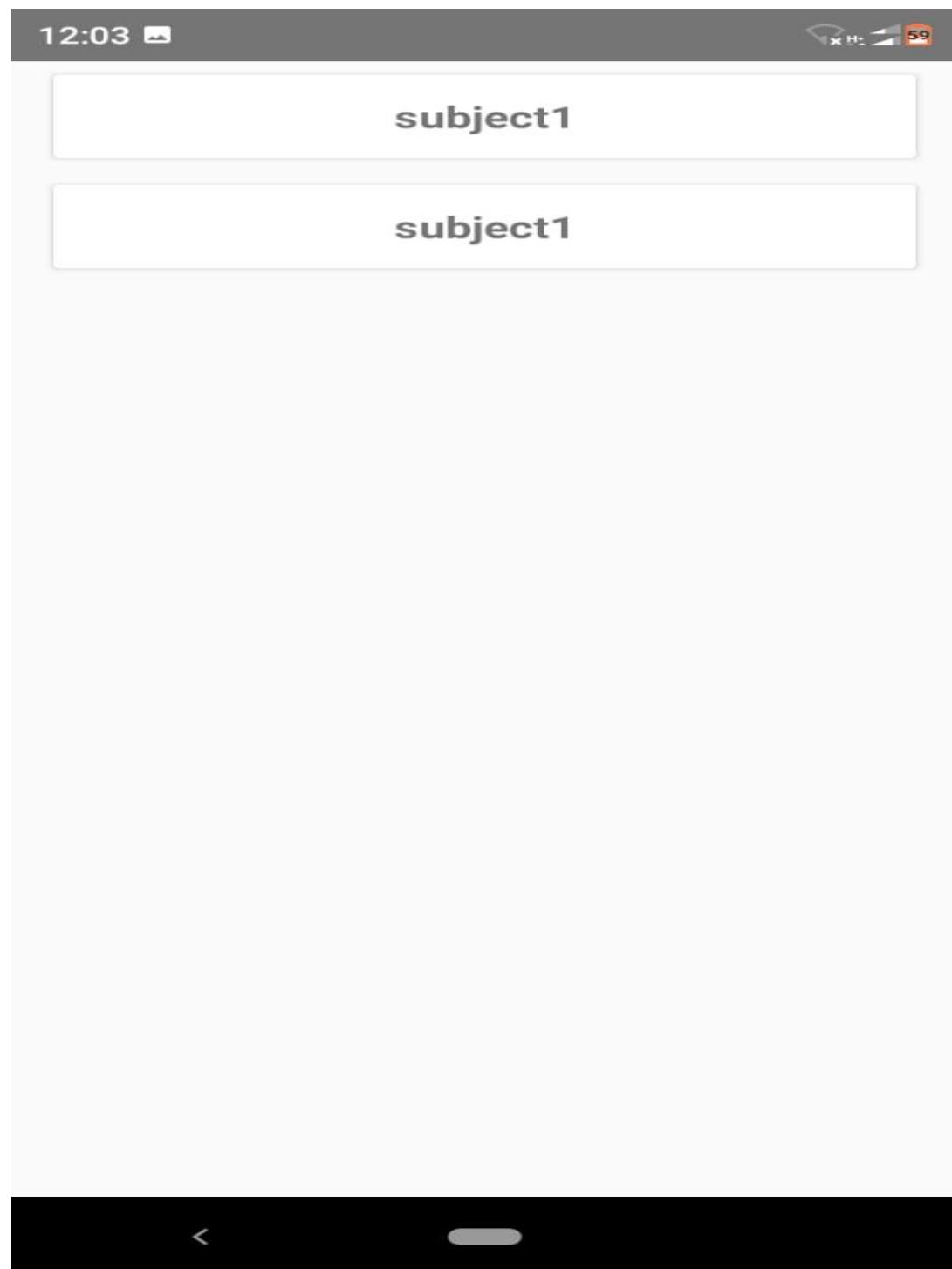


questionPaper1



questionPaper2





Notice Upload

It is here for uploading notices like PDFs ,Assignments ,etc. by the faculty.



The image shows a mobile application interface for uploading notices. At the top is a purple header with a white hamburger menu icon and the text "uiet". Below the header is a large yellow rectangular area with a red double-line border. Inside this area, at the top, is a red ribbon banner. In the center is a yellow circular button with a magnifying glass icon and the word "BROWSE" in black capital letters. Below the button is a text input field with the placeholder text "File Title". To the right of the input field is a red circle with a white exclamation mark. Below the input field is a black rectangular error message box with the text "Text is Required." in white. Below the input field and error message is a large yellow button with the word "UPLOAD" in black capital letters. A white hand icon with a pointing finger is positioned over the "UPLOAD" button. At the bottom of the yellow area is a grey rounded rectangular button with the text "Please enter the title" in white.

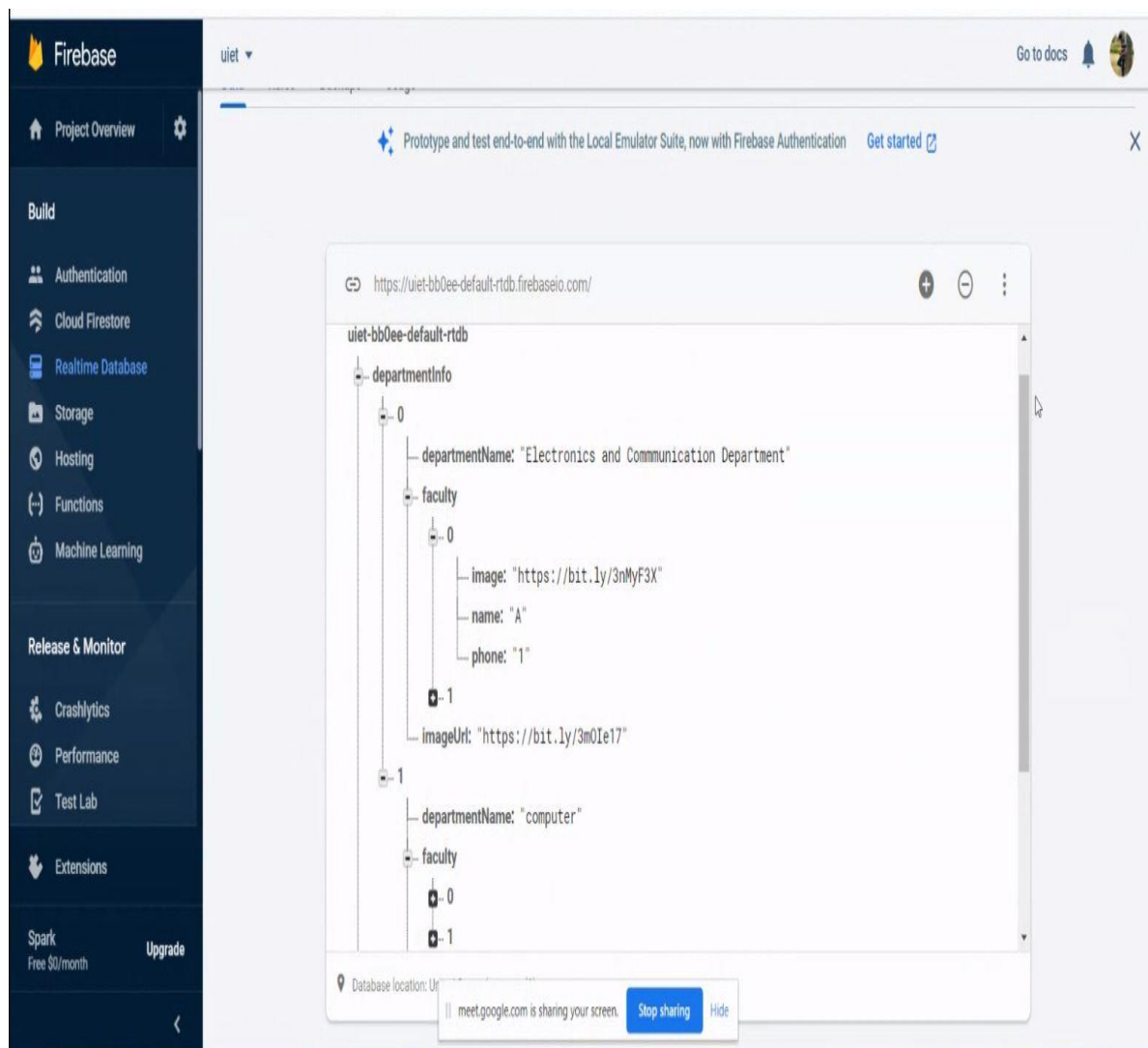
Contact

The contact shows the exact address of the college. It also Provides the links for social accounts of college like Linked In, facebook and a link to directly visit the payment page of UIETs website.

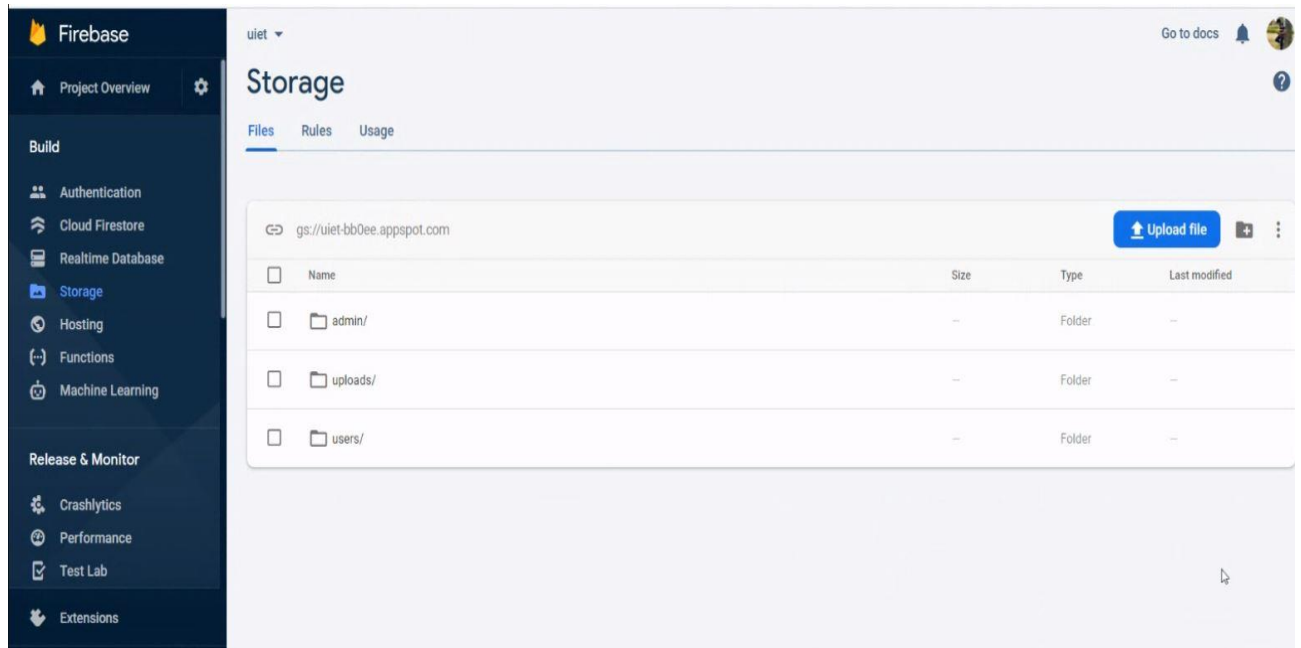


FIREBASE

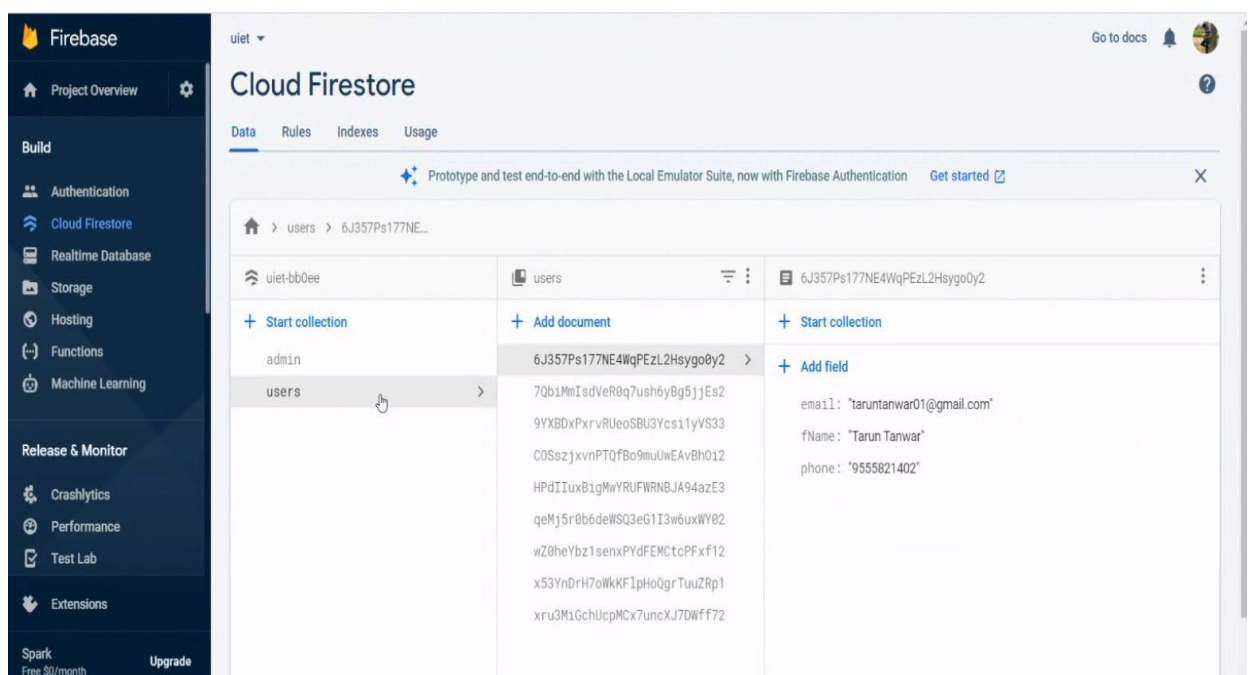
Firebase stores in various positions. The data containing about the JSON files which stores information of departments , faculty and their information is present in RealTime database.



The firebase stores the uploaded documents, photos and various notices in the Storage section of the firebase.



The cloud firestore stores every entry of login ,passwords and various other information of students and admin login .



The chat box is improvised to one way message box for urgent notices.

References

1. Android Programming : The Big Nerd Ranch Guide
2. The busy coder's guide to Advanced Android Development by Mark Murphy
3. <https://www.geeksforgeeks.org/>
4. <http://developer.android.com/reference/packages.html>