

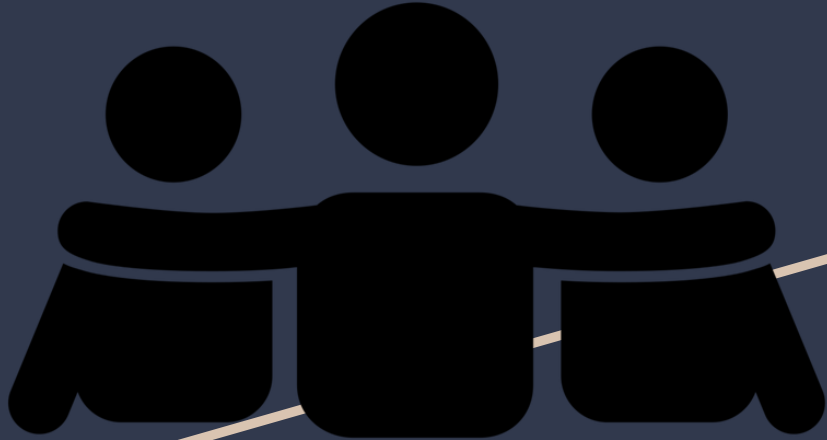
Large Applications Practicum

Attendance via Face Recognition

Mentor - Renu M R

TEAM - 7

TEAM MEMBERS:



B17009: ARPIT SINGH
BHADAURIA

B17035: ANKIT JIGANWAL

B17037: ATYANT YADAV

B17070: YASH KHANNA

B17076: ANIKET SAHU

AIM:



- To develop a Attendance system using Face recognition.
- We will make an Android Application, which will be installed on faculty's smartphone.
- Faculty will circulate his/her phone and student's attendance will be marked on the basis of their facial recognition.
- Student can see his attendance, using his login and password.

Technology Used:



- React-Native and Android Studio for Android app development
- Postgresql for Database
- NodeJs for Server
- Keras-OpenFace Library
- CNN(deep learning model) for Face Detection
- Reactjs for front-end for web application
- Git for Version Control of Project

Work Division:

Front-End

- Arpit Singh Bhadauria
- Ankit Jiganwal

Back-End

- Aniket Sahu
- Atyant Yadav

Machine Learning Model

- Yash Khanna

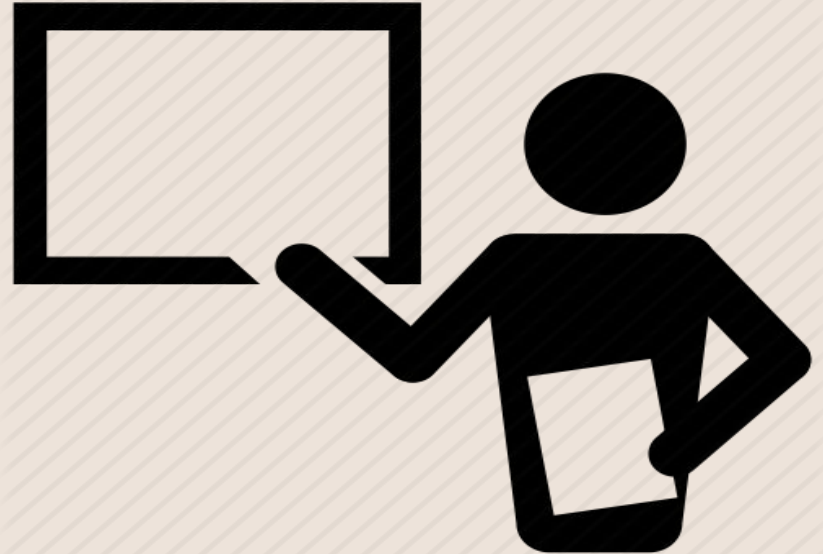


User Modes

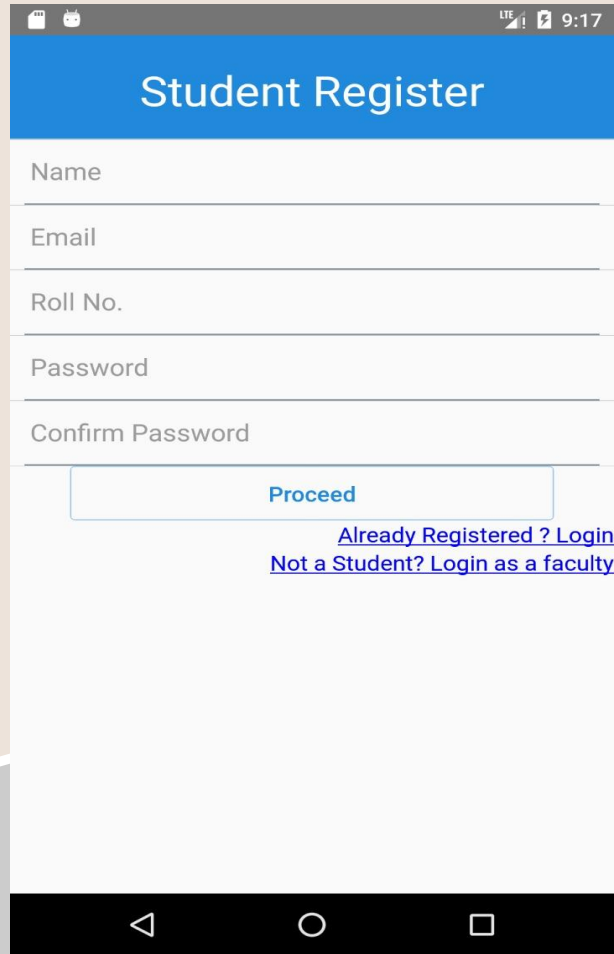
As a Student



As a Faculty



Student Register



A mobile app interface for student registration. The screen has a blue header with the title "Student Register". Below the header are five input fields: "Name", "Email", "Roll No.", "Password", and "Confirm Password". At the bottom, there is a "Proceed" button and two links: "Already Registered ? Login" and "Not a Student? Login as a faculty". The status bar at the top shows LTE, signal strength, battery, and the time 9:17. The bottom navigation bar shows the standard Android icons.

Student Register

Name

Email

Roll No.

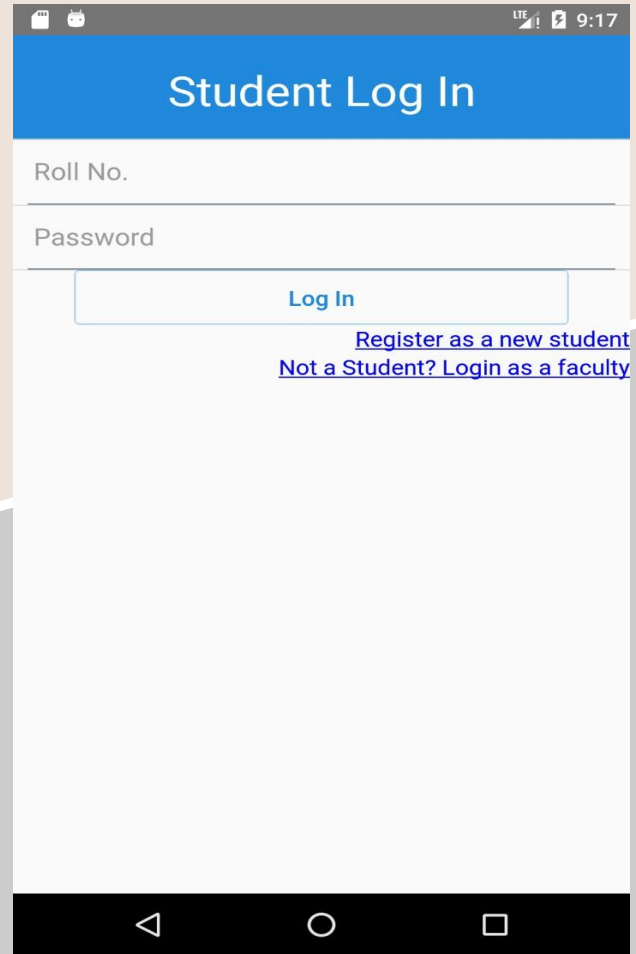
Password

Confirm Password

Proceed

[Already Registered ? Login](#)
[Not a Student? Login as a faculty](#)

Student Login



A mobile app interface for student login. The screen has a blue header with the title "Student Log In". Below the header are two input fields: "Roll No." and "Password". At the bottom, there is a "Log In" button and two links: "Register as a new student" and "Not a Student? Login as a faculty". The status bar at the top shows LTE, signal strength, battery, and the time 9:17. The bottom navigation bar shows the standard Android icons.

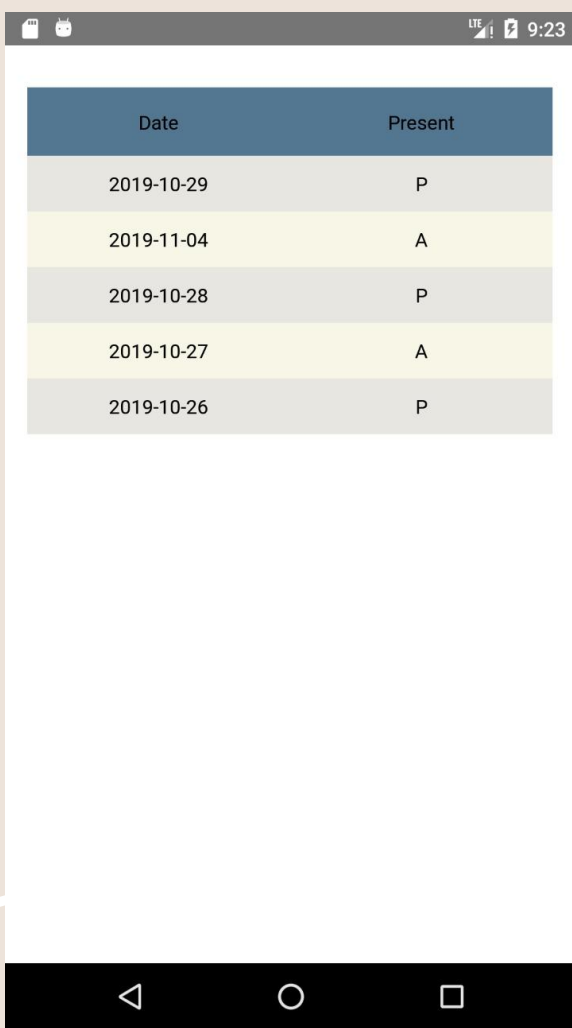
Student Log In

Roll No.

Password

Log In

[Register as a new student](#)
[Not a Student? Login as a faculty](#)



The screenshot shows a mobile application interface with a table of attendance records. The table has two columns: 'Date' and 'Present'. The rows show dates from 2019-10-26 to 2019-11-04, with 'P' for Present and 'A' for Absent. The table is displayed on a white background with a dark blue header. The mobile status bar at the top shows 'LTE', signal strength, battery, and the time '9:23'. The bottom navigation bar shows standard Android icons: back, home, and recent apps.

Date	Present
2019-10-29	P
2019-11-04	A
2019-10-28	P
2019-10-27	A
2019-10-26	P

Attendance Record of a Student

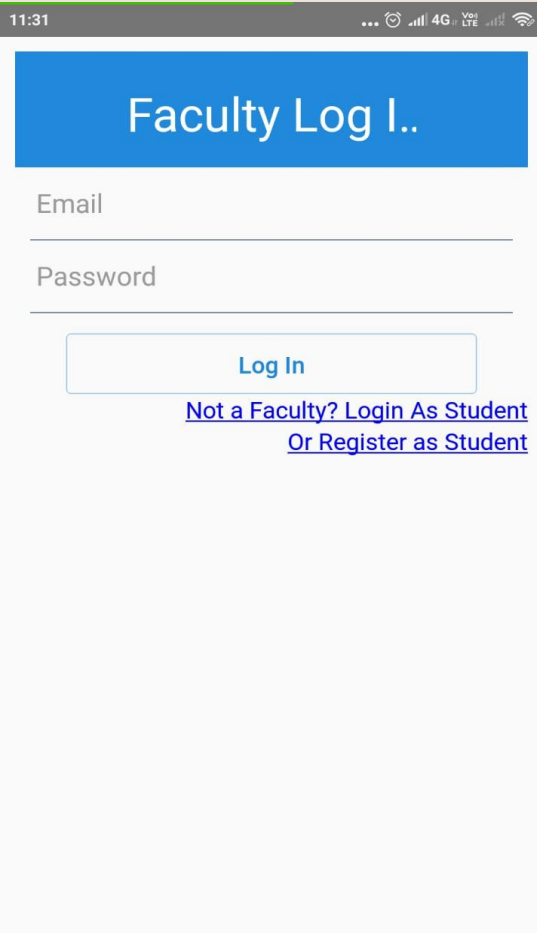
- ❖ Date and Attendance column
- ❖ Each student have separate table for each course taken
- ❖ Attendance of each class can be viewed according to the date mentioned:
 - P - Present
 - A - Absent

rollNo	percentage	totalDays	daysAttended
B17035	50	2	1
B17036	0	2	0
B17009	100	2	2

Attendance statistics of a student

- ❖ Each course have separate table for all students in that course
- ❖ Table has four columns
 - Roll Number (rollNo)
 - Percentage Attendance (percentage)
 - Total no of working days (totalDays)
 - Classes attended by particular student (daysAttended)

Faculty Login



11:31

Faculty Log I..

Email

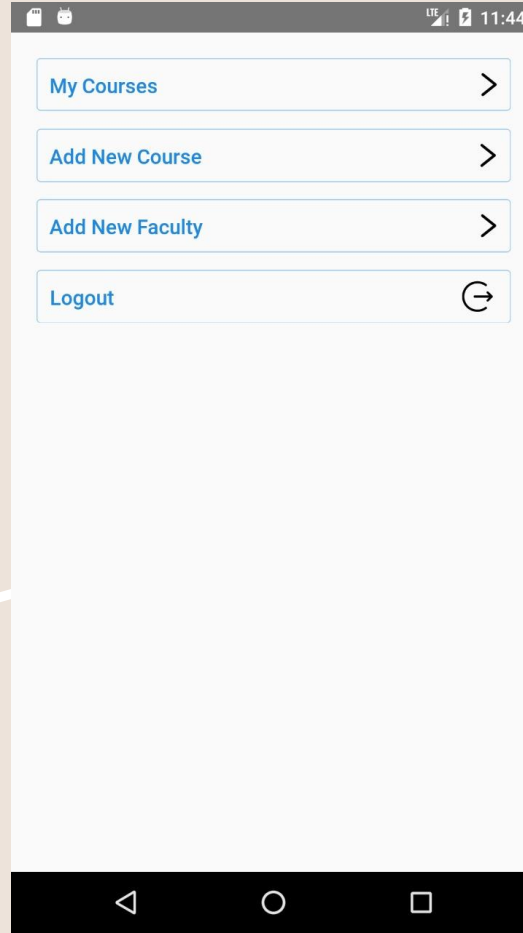
Password

Log In

[Not a Faculty? Login As Student](#)
[Or Register as Student](#)

This screenshot shows the Faculty Login screen of a mobile application. At the top, the status bar displays the time 11:31 and various connectivity icons. Below the status bar is a blue header with the text 'Faculty Log I..'. Underneath the header are two input fields for 'Email' and 'Password'. A 'Log In' button is positioned below the password field. At the bottom, there are two links: 'Not a Faculty? Login As Student' and 'Or Register as Student'.

Add new Faculty



11:44

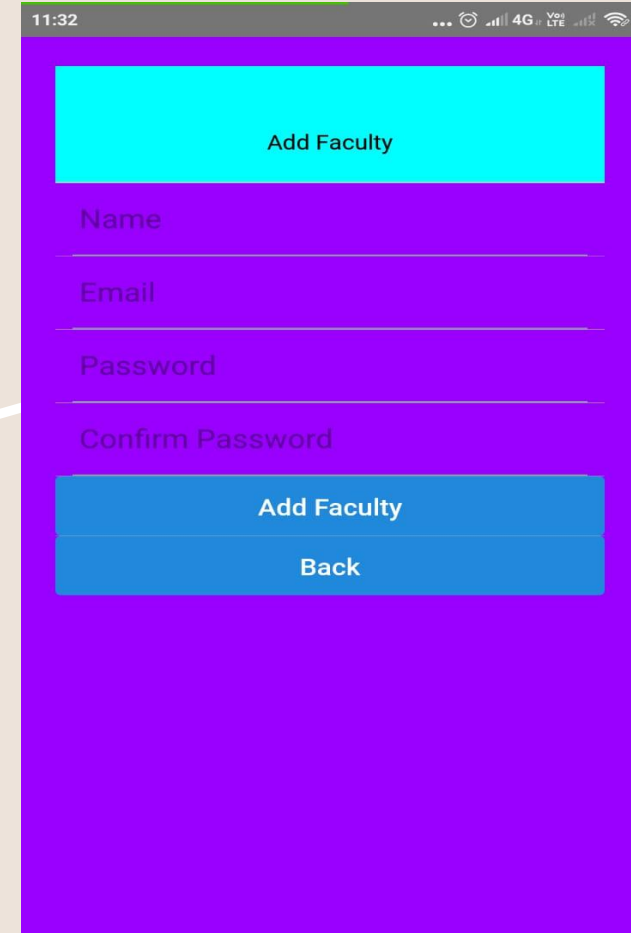
My Courses

Add New Course

Add New Faculty

Logout

This screenshot shows the 'Add new Faculty' screen of a mobile application. The status bar at the top shows the time 11:44. The screen contains four buttons: 'My Courses', 'Add New Course', 'Add New Faculty', and 'Logout'. Each button has a right-pointing arrow or a circular arrow icon. The 'Logout' button is located at the bottom of the list.



11:32

Add Faculty

Name

Email

Password

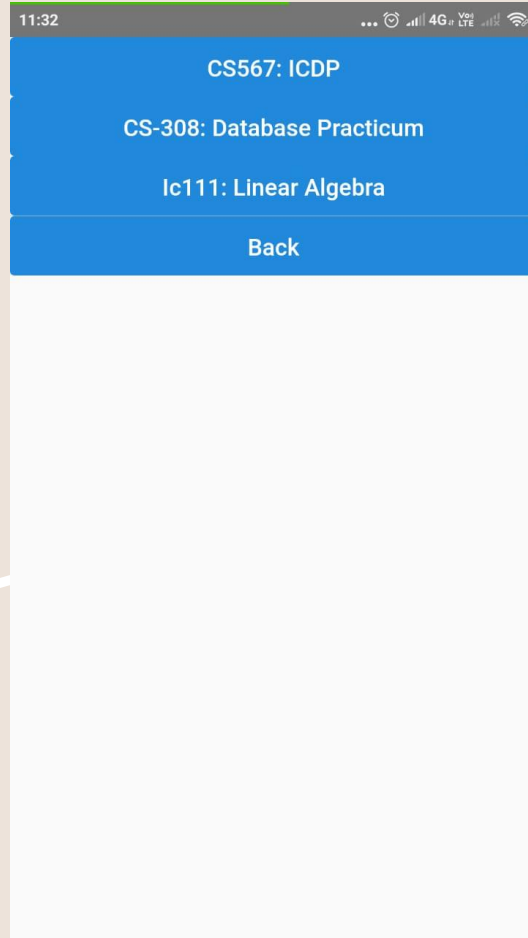
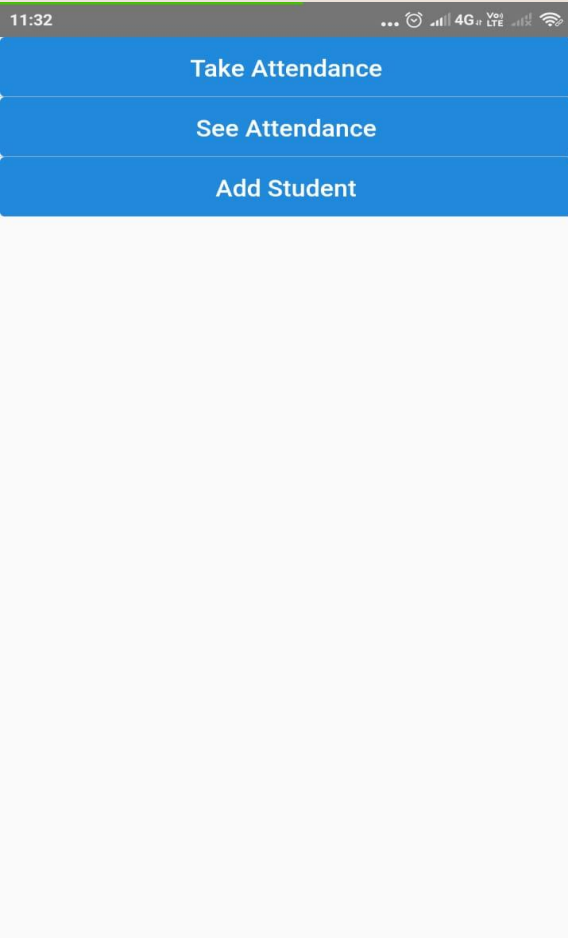
Confirm Password

Add Faculty

Back

This screenshot shows the 'Add new Faculty' screen of a mobile application. The status bar at the top shows the time 11:32. The screen has a purple background. At the top, there is a red button labeled 'Add Faculty'. Below it are four input fields for 'Name', 'Email', 'Password', and 'Confirm Password'. At the bottom, there are two buttons: 'Add Faculty' and 'Back'.

Mark Attendance




Add Students

11:35

Roll No.

CHOOSE IMAGE

 Add New Student

Add Students

11:36

B17001


CHOOSE IMAGE

B17002

CHOOSE IMAGE

Roll No.

CHOOSE IMAGE

 Add New Student

Add Students

Add Course

11:32

Course Code

Course Name

Add

Back



thank you!