PUNE INSTITUTE OF COMPUTER TECHNOLOGY

DHANKAWADI,PUNE

MINI PROJECT ON

TRAINING AND PLACEMENT APP

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1.ABSTRACT

For any engineering institute ,'TRAINING AND PLACEMENT CELL' is a must. This project is aimed at developing an online android application for the Training and Placement department of the college. The system is an online android application that can be accessed throughout the organization and outside as well with proper login provided. This system can be used as an application for the TPO of the college to manage the student information with regards to placement. Students logging in should be able to upload their information.

For the purpose of training and placement of the student in colleges, TPO's have to collect the information and CV's of students and manages them manually and arranges them according to various streams.If any modification is required that is to be done also manually. So, to reduce the job required to manage CV's and the information of various recruiter system is proposed which is processed through computers

The project covers a wide scope. The information of all the students can be stored. Various companies can access the information. Students can maintain their information and can update it. Students can access previous information about placement.

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3.	Testing/Result and analysis	
4.	Screenshots	
5.	Conclusion and Future Enhancement	
6.	References	

Architecture diagram

SR. NO.	TABLE NAME	
1.	Test Cases	

SR. NO.	DIAGRAM NAME	
1.	Architecture diagram	
2.	Activity Diagram	
3.	Use case diagram	

CHAPTER 1
INTRODUCTION

1. PURPOSE

The purpose of this document is to present a detailed description of the PICT TNP (Digital Placement & Training System). It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate and how the system will react to external stimuli. This document is intended for both the stakeholders and the developers of the system and will be proposed to the SDL lab teacher for its approval.

2. SCOPE

This software system will be a Digital Training & Placement App for students of Pune Institute of ComputerTechnology (Pune).This system will be designed to ease the life of students when it comes to placements. This project is mainly intended for automating procedure that can help the people who belong to the T&P cell by saving their time ,based on this basic operation mainly having student record and maintain company details. Through our app this need is completely eliminated. This app can be used in the T&P CELL of various colleges to convert traditional cell into smart Cell.

3. OVERALL DESCRIPTION

Students can check any company in which they are interested directly on their app. They can also apply for any company in which they are interested if the user is not placed. Students can view the company list and can also view the interview questions.Admin can add Company,view company list and add any notice regarding the Cell. Admin can also verify the students documents.

4. MOTIVATION

Digitizing PICT TRAINING AND PLACEMENT for college.
Need of physical presence in TnP Cell for verifying documents.
To ease the life of students when it comes to placements.
Making the process of verifying the documents, searching company and students is made completely paperless and process is taken online.

CHAPTER 2
DESIGN AND IMPLEMENTATION

2.1 PRODUCT PERSPECTIVE

The proposed Training and Placement System will take care of the current company and student detail at any point of time. The student information and their verification,documentation,company information and notice regarding T&P Cell will be done through app.

2.2 REQUIREMENT ANALYSIS

Hardware required for developing app:

- Computer with intel i5 or greater processor

Software required for developing the app:

- Android Studio by IntelliJ
- Java SDK
- Firebase Account

Requirements for running the app:

- A smartphone
- Android lollipop or greater
- Working Internet Connection

2.3 DEPENDENCIES

- Working Internet Connection
- Continuous Updation of database required
- Database hosted by Google

2.4 PRODUCT FUNCTIONS

- Users have their own account with appropriate account security
- Users can view the companies they are interested,see the notice regarding Cell,view the mock test questions of the respective company and view their own profile.
- Admin can view student profile ,add company,view company and add the notice regarding Cell.
- In notice section,if the student is already placed in a company then he/she cannot apply for any company.

- Admin can verify all the documents of any Student/User

2.5 FUNCTIONAL REQUIREMENT

REGISTRATION OF USER

DESCRIPTION:

First the user will have to register/sign up.

User has to provide his personal and academic information including with his/her documents.

1.1 SIGN UP

Input: Detail about the user as mentioned in the description.

Output: Confirmation of registration status and a username and password will be set.

1.2 LOGIN

Input: Enter the username and password provided

Output : User will be able to use the features of the software.\

2.MANAGE

2.1 SEARCH COMPANY

User can search the company in which he/she is interested

2.2 Practise mock test

User can have practise mock test for each and every company and can prepare for the placements

2.3 Notice regarding Cell

User can have updations regarding Training and Placement Cell and if any company is going to visit Campus then they can apply from here if they are placed

3.Manage Training and Placement Cell via Admin

3.1 Add Company

Input:Enter company name,description,CTC,mock questions,requirements.

Output:Company is added successfully.

3.2 Add notice

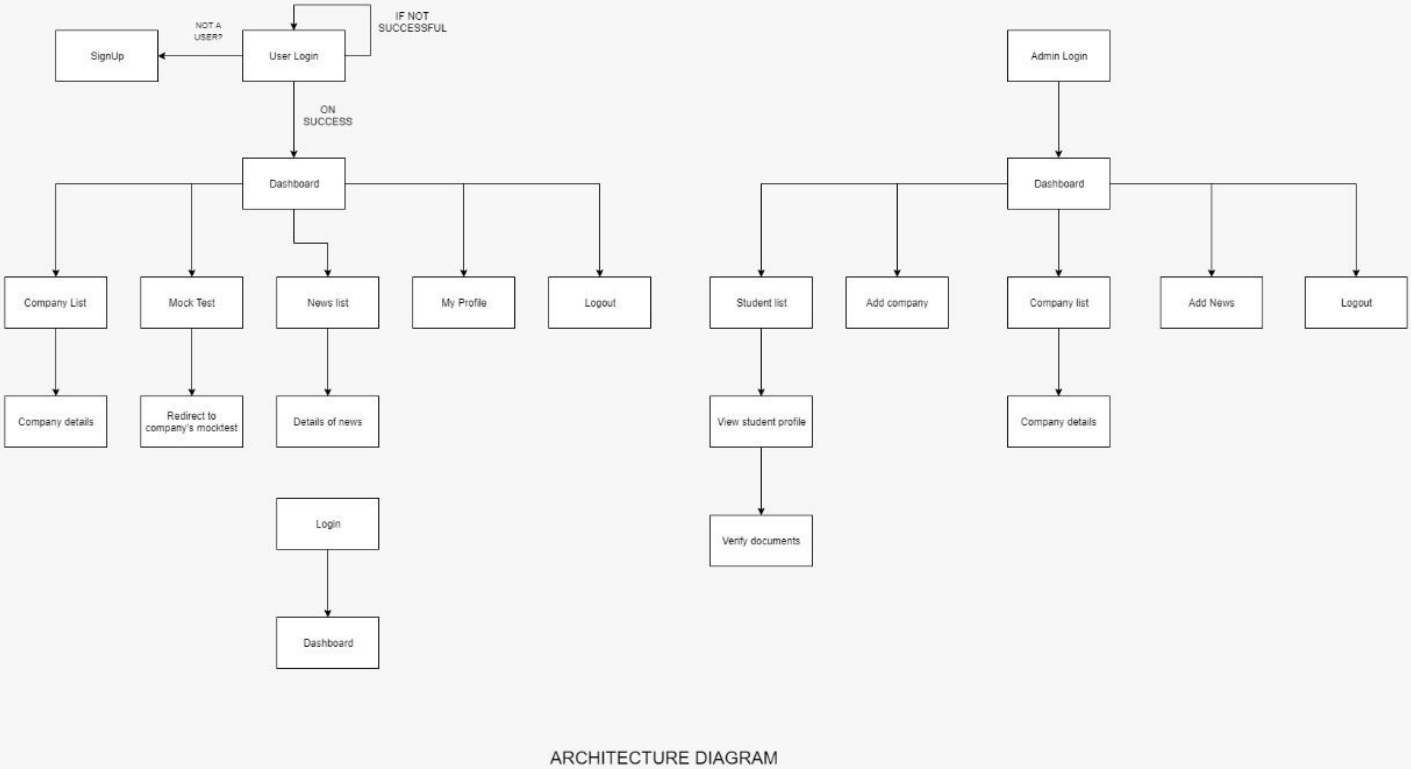
Input:Enter subject of notice and description

Output:Notice added successfully.

3.3 Verify Students

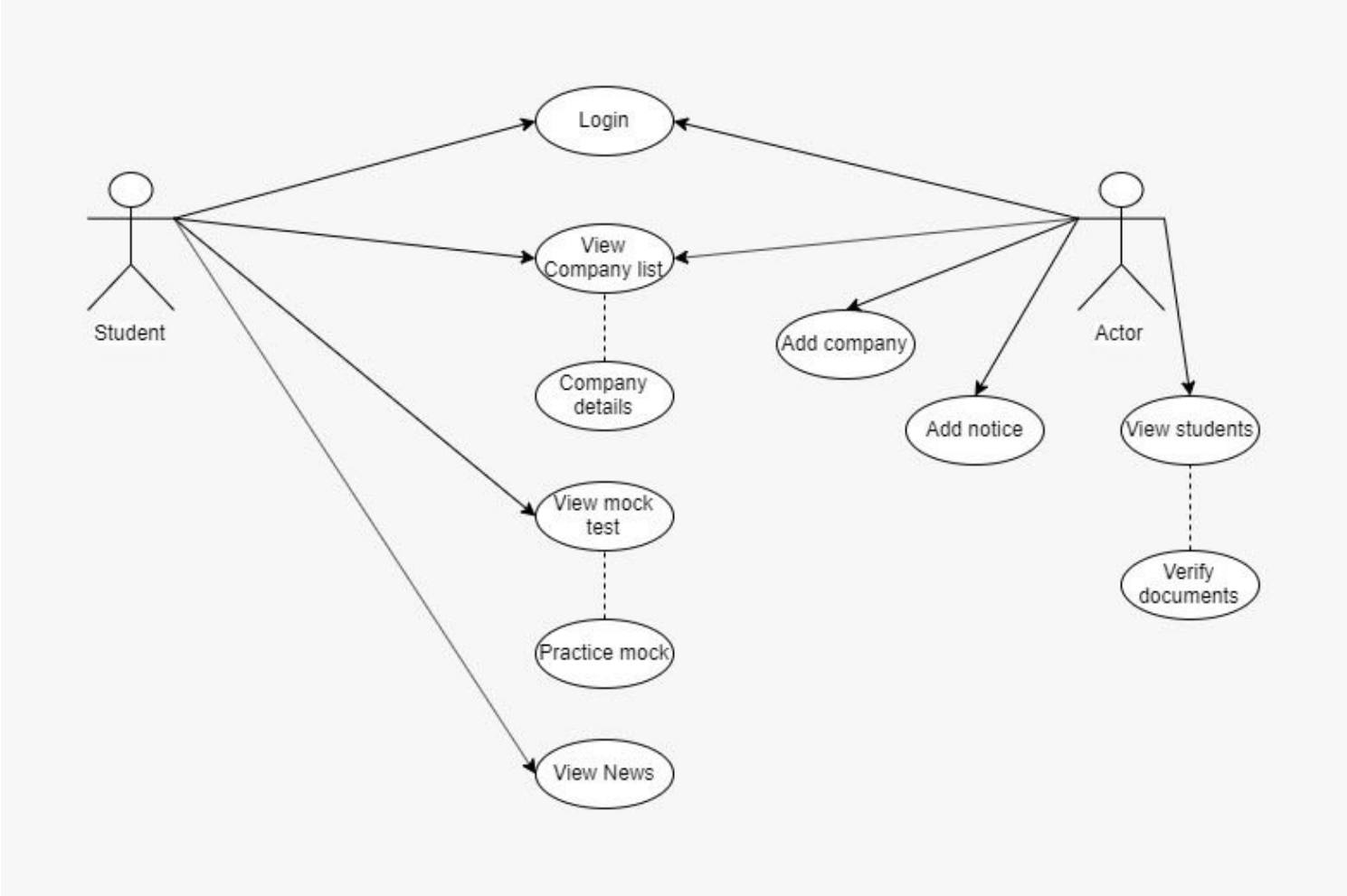
Admin can verify students information and can verify documents

2.6 ARCHITECTURE DIAGRAM OF TNP APP:



ARCHITECTURE DIAGRAM

2.8 USE CASE DIAGRAM :



2.10 IMPLEMENTATION

The TnP android app was implemented using the Android studio app. Android Studio is the official integrated development environment for Google's Android operating system, built on JetBrains' IntelliJ IDEA software and designed specifically for Android development. It is available for download on Windows, macOS and Linux based operating systems. It has a strong editor tool for developing creative UI and emulators for different versions to test and simulate sensors without having actual Android devices.

Installing Android Studio in Ubuntu:

STEP 1:

- We started by installing Oracle JDK 8 with the following commands:

```
sudo add-apt-repository ppa:webupd8team/java
sudo apt-get update
sudo apt-get install oracle-java8-installer
sudo apt-get install oracle-java8-set-default
```

STEP 2:

- Download the Android Studio package for Linux and extract it to the home directory.
- To launch Android Studio, open a terminal, navigate to the android-studio/bin/directory, and execute studio.sh
- Select whether you want to import your previous Android Studio settings or not, then click OK.
- Set the ANDROID_HOME environment variable to the location of your Android SDK

installation:

```
sudo gedit ~/.bashrc
```

```
export ANDROID_HOME=/home/user_directory/Android/Sdk
export PATH=${PATH}:$ANDROID_HOME/tools:$ANDROID_HOME/platform-tools
export JAVA_HOME=/usr/lib/jvm/java-8-oracle
```

STEP 3:

Install SDK Platforms

- You need to install an SDK before you can jump into building Android apps.
- Click on Configure -> SDK Manager to open Android SDK Manager.
- Select the latest API in order to test against target build, e.g. API 19 (Android 4.4.2), and the Android Support Library and Android Support Repository packages in Extras . Then install the selected packages.

TESTING/RESULT AND ANALYSIS

3.1 TEST CASES

SR. NO.	TEST CASE DESCRIPTION	EXPECTED RESULT	ACTUAL RESULT
REGISTRATION PAGE:			
1.	Enter name,MIS number,Mail,password and other academic information and click SIGNUP.	New account created successfully and logged in. LOGIN page will open.	Same as expected
LOGIN PAGE			
1.	Enter correct username and password	User successfully logged in. Dashboard page will open.	Same as expected
2.	Enter incorrect username and password	Toast showing incorrect username or password	Same as expected
DASHBOARD			
1.	Clicks an option from the bottom navigation drawer	Activity corresponding to that option opens	Same as expected

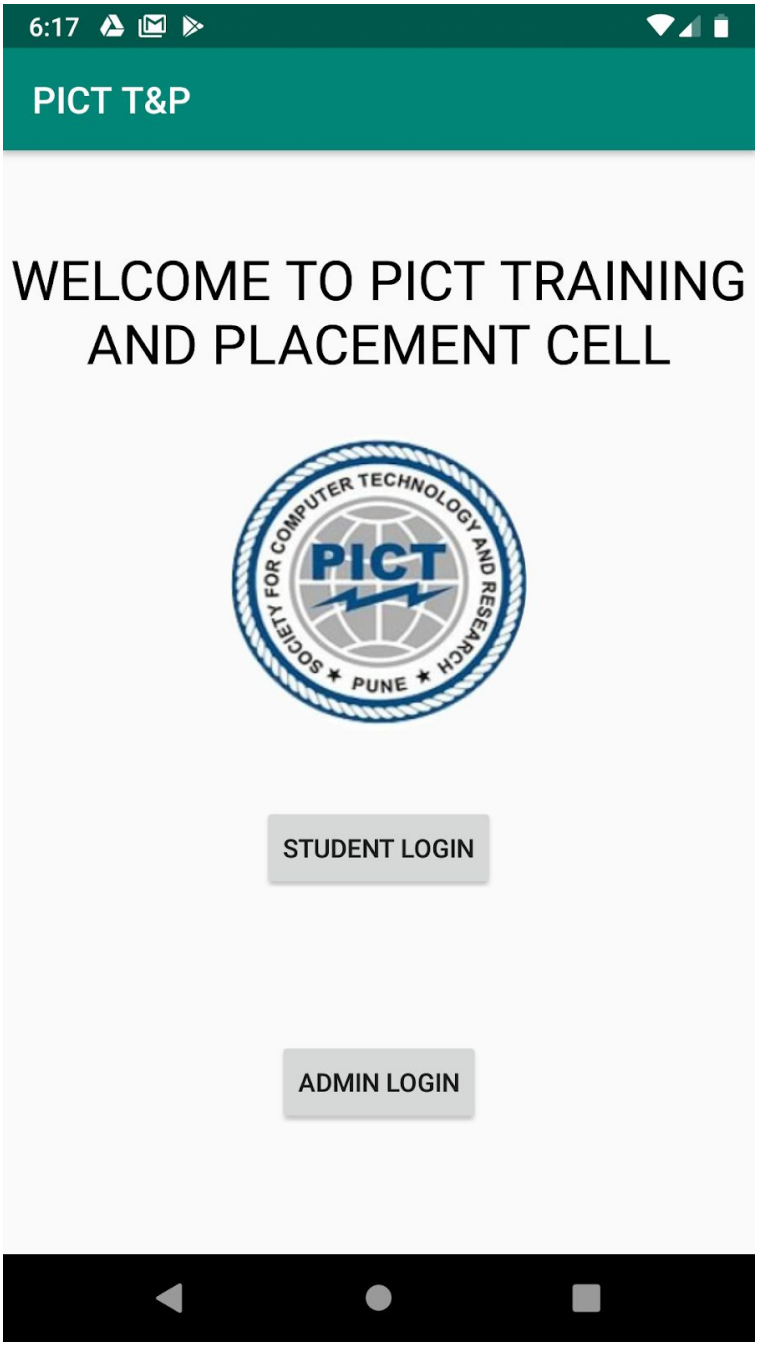
2.	Clicks logout from the navigation drawer	User successfully logged out and login activity opens	Same as expected
VIEW COMPANY ACTIVITY			
1.	Companies	Company list will be displayed.	Same as expected
MOCK TEST ACTIVITY			
1.	Mock test	Mock test of particular company will be displayed	Same as expected
NEWS ACTIVITY			
1.	Notifications or news related to TnP cell will be displayed	Details of news Or notice	Same as expected
MY PROFILE			
1.	Details of logged in students Is displayed	Details displayed	Same as expected

ADMIN			
1.	View Students	List of all students will be displayed	Same as expected
2.	Add Company	Toast showing "company added	Same as expected

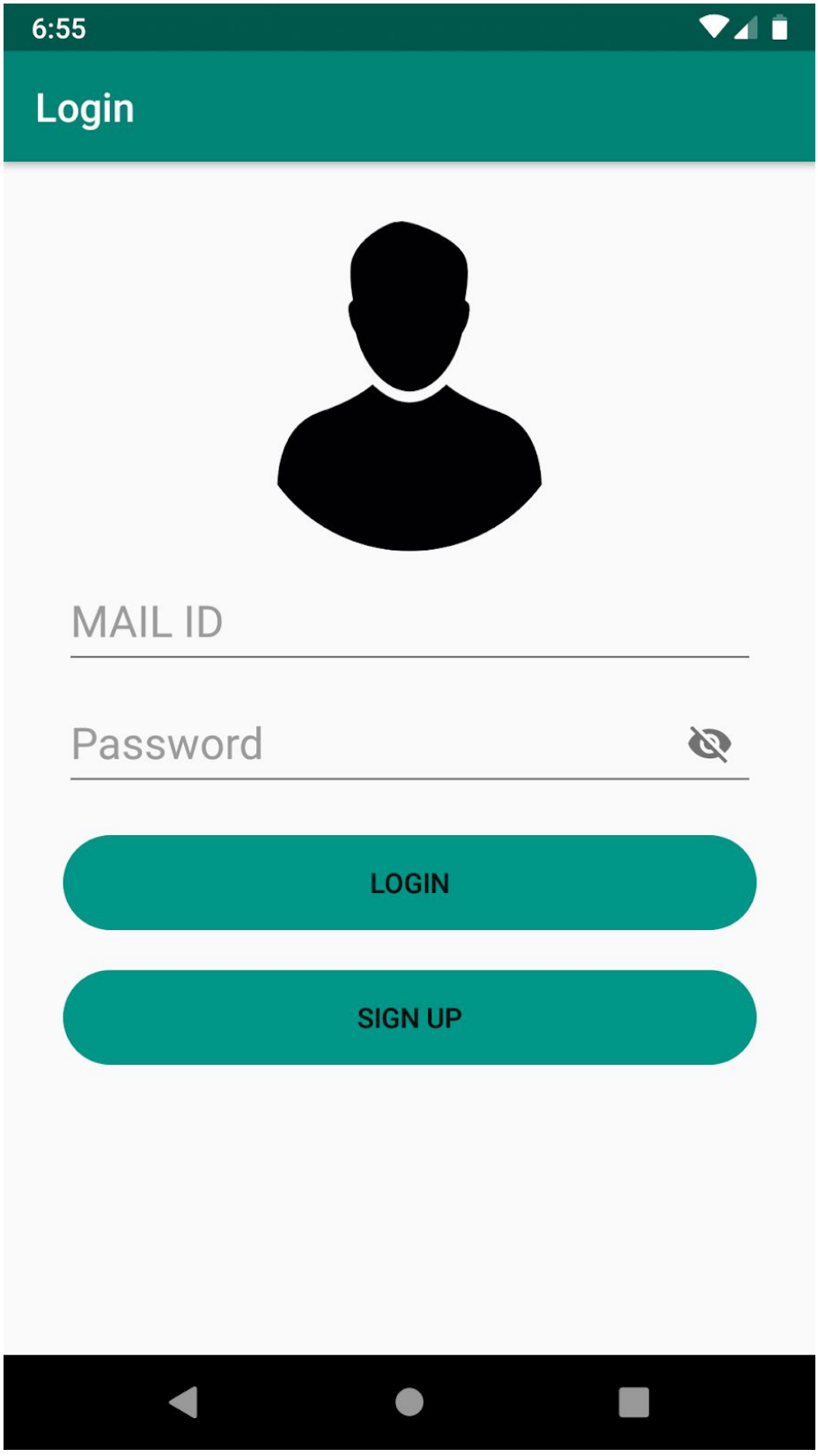
		successfully” will displayed	
3.	Add news	Toast showing Company added successfully will Be displayed	Same as expected

3.2 ScreenShots

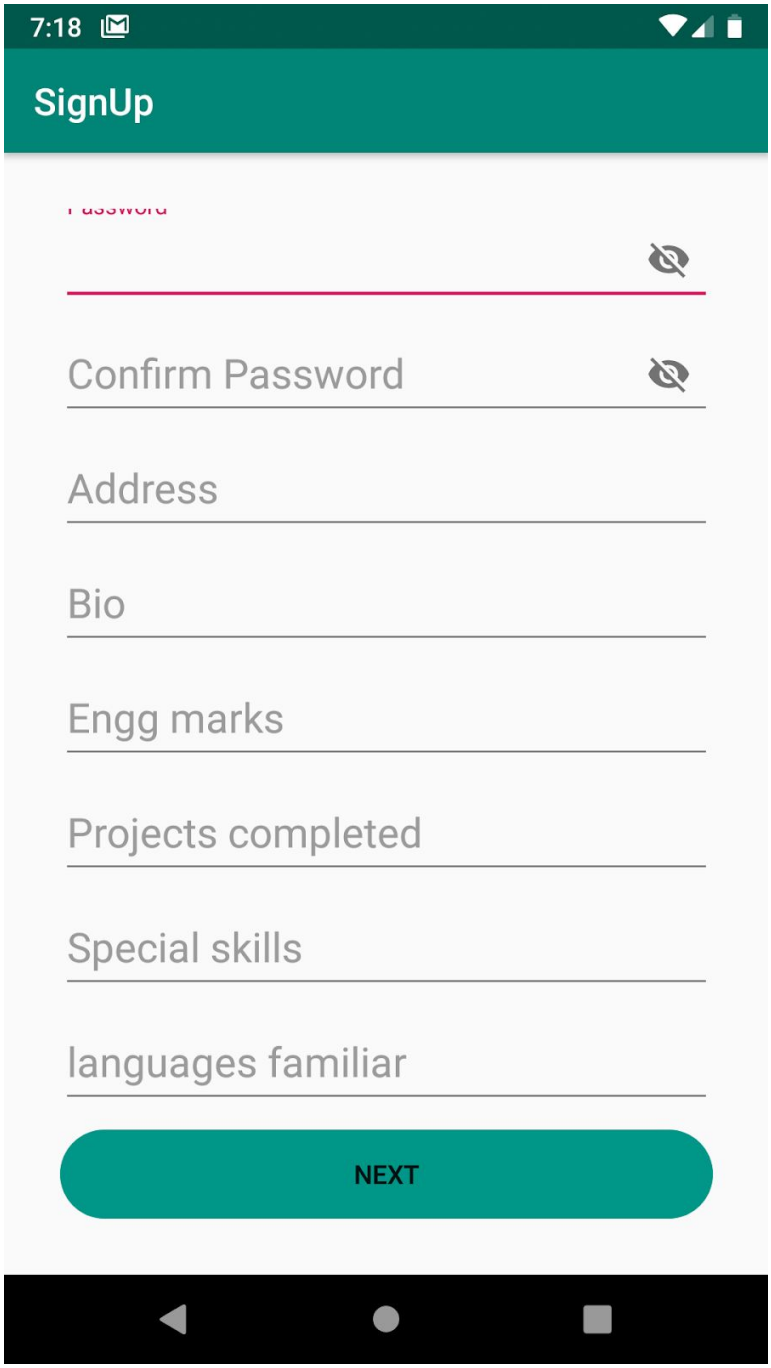
Welcome page



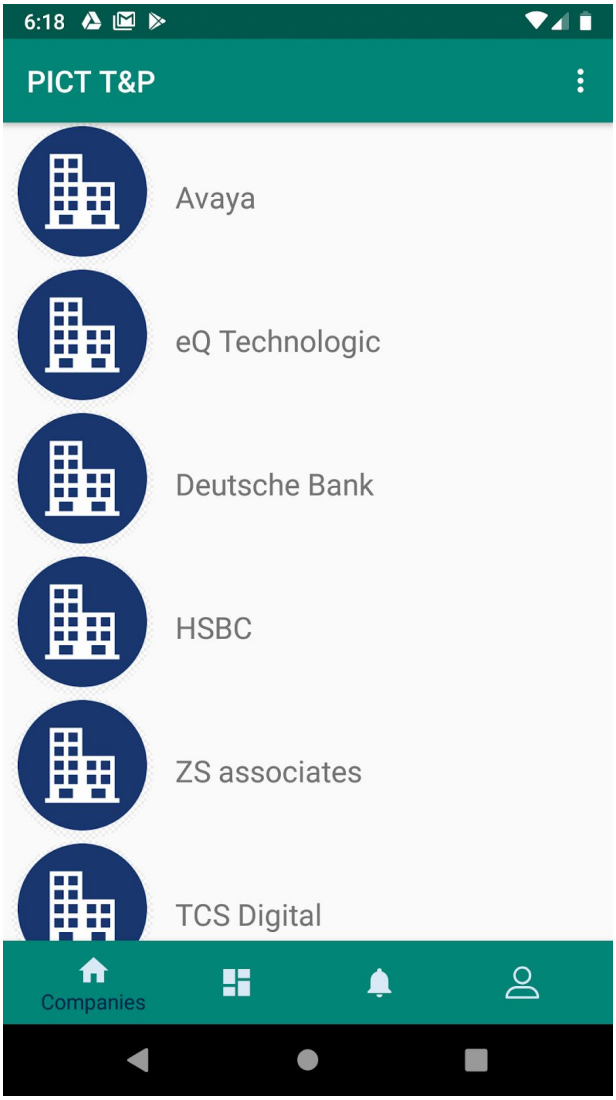
STUDENT LOGIN PAGE



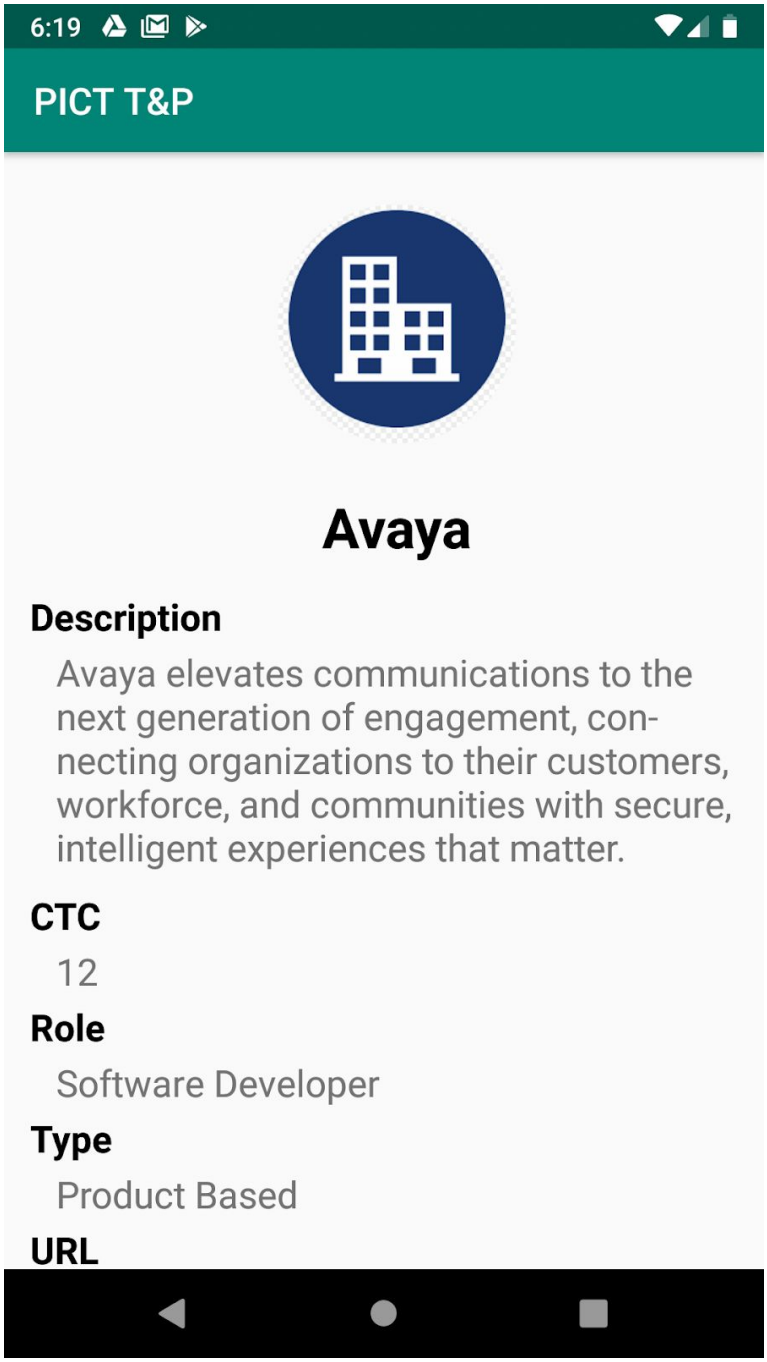
STUDENT SIGN UP PAGE



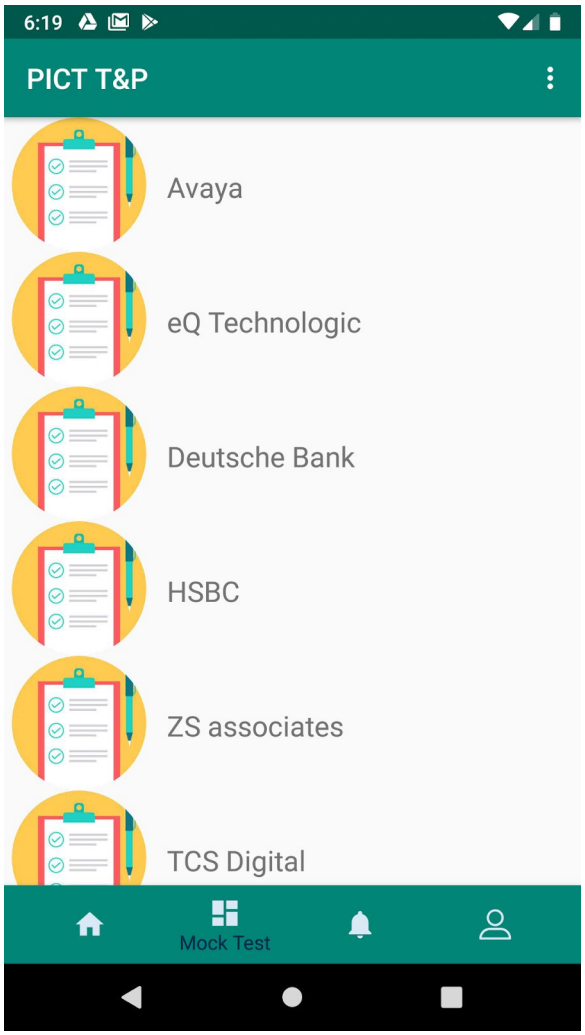
List of companies

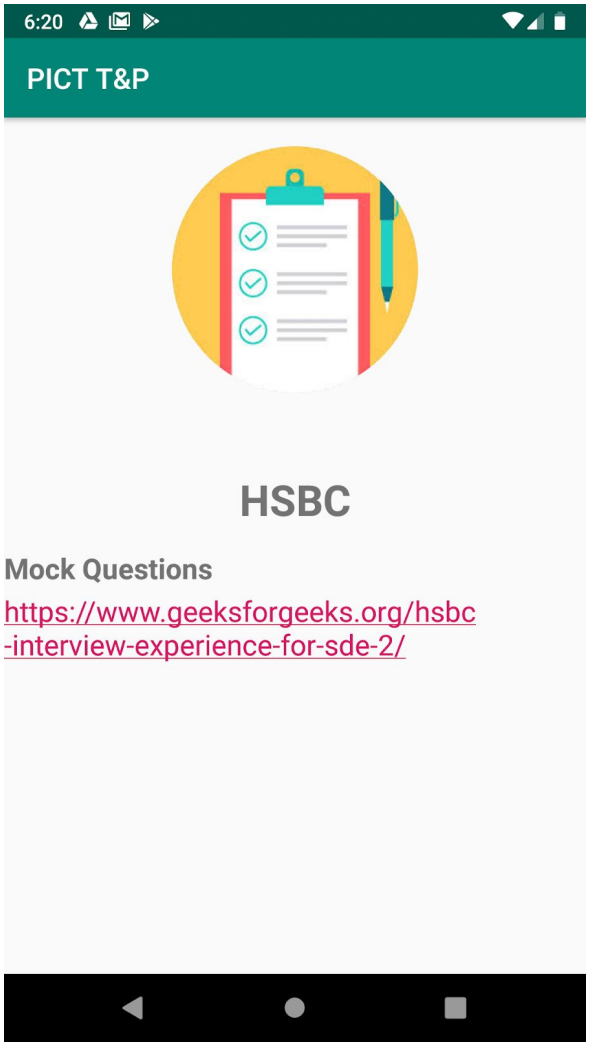


Company information

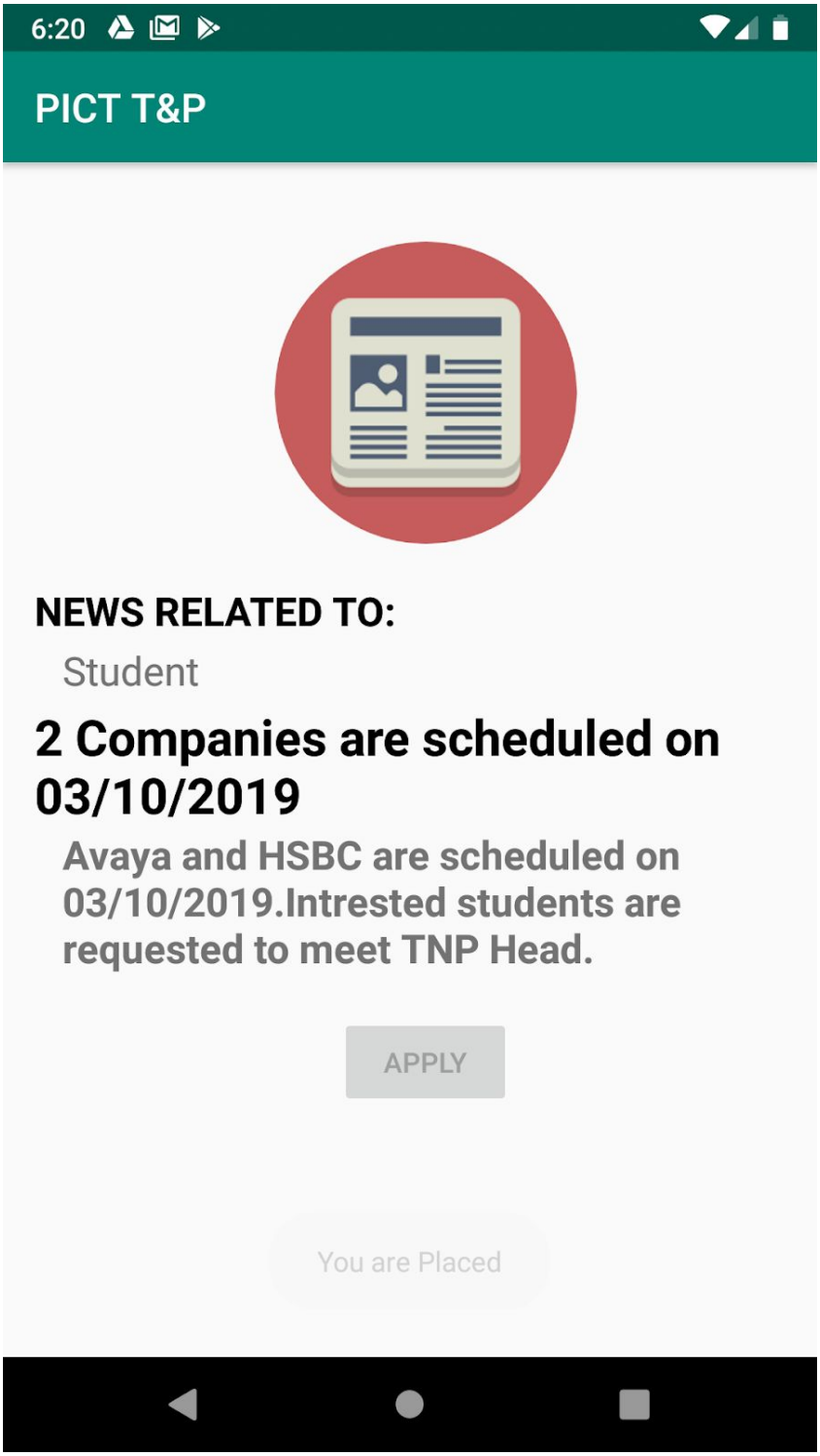


Mock Test of companies

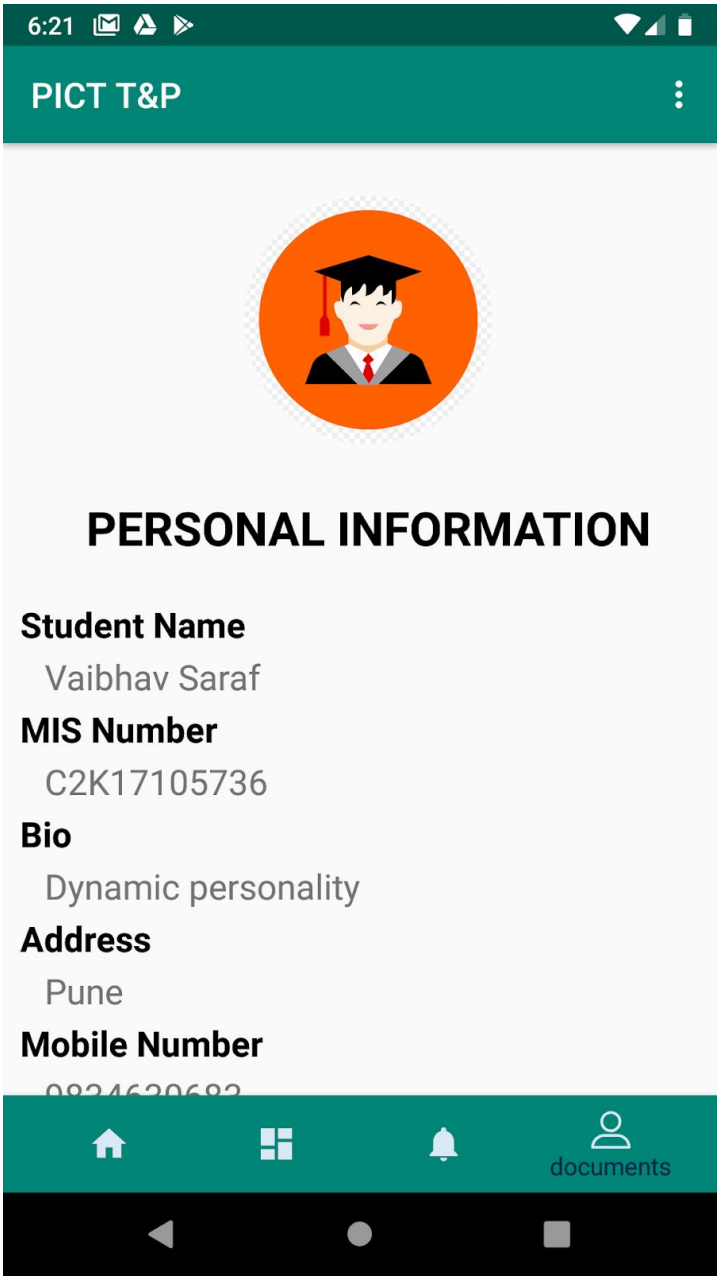


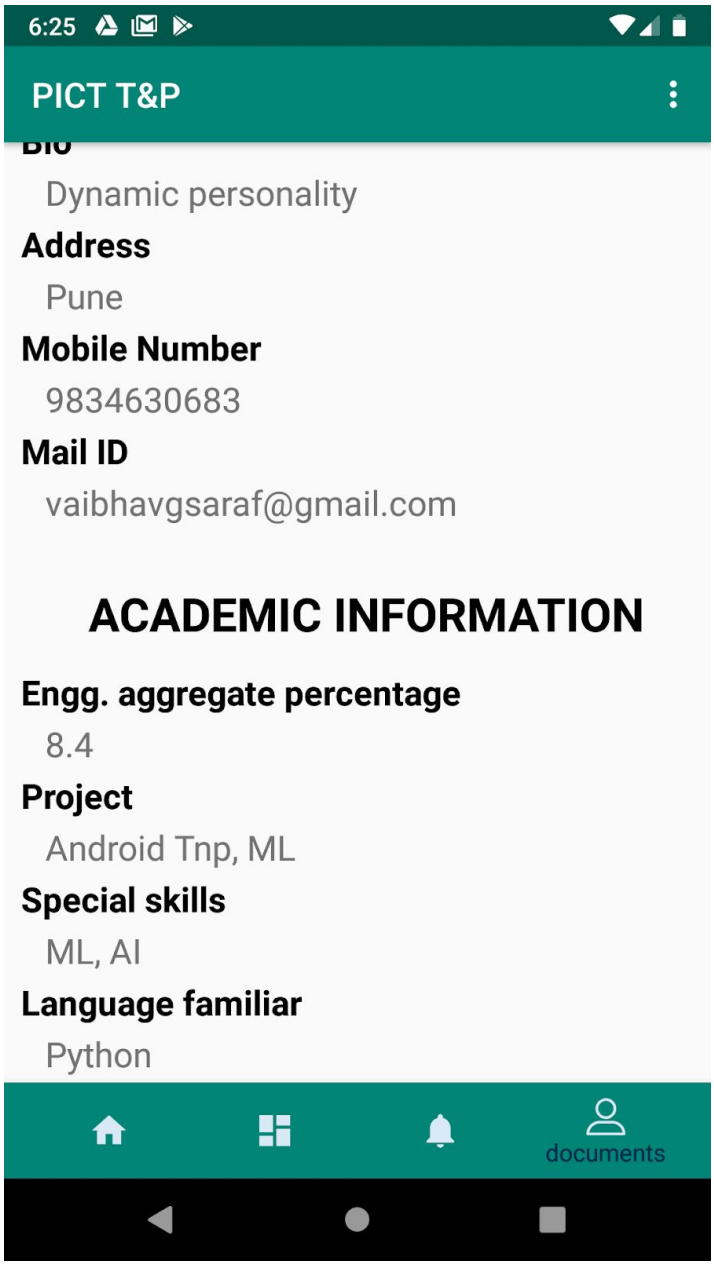


News of Companies :

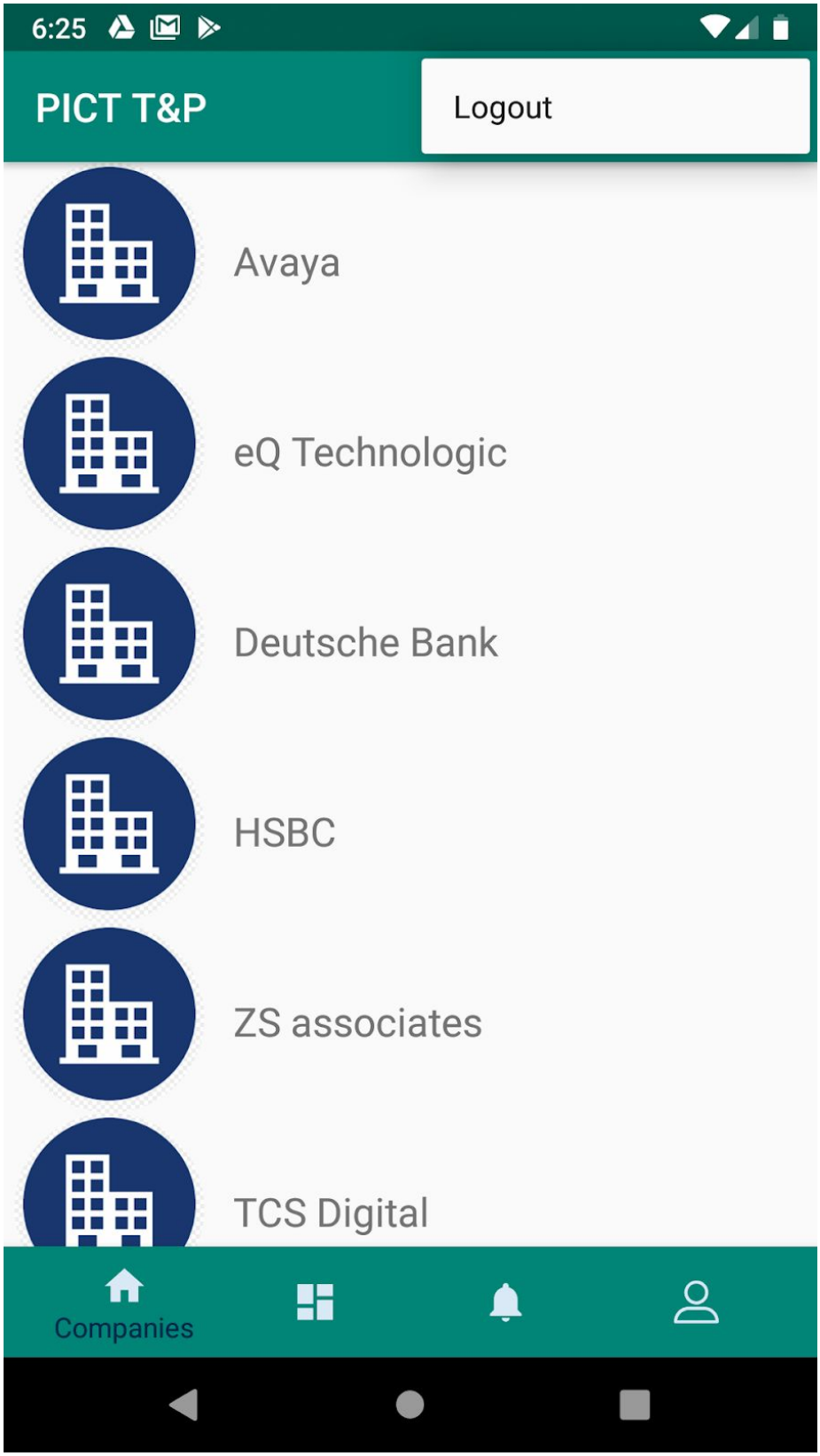


My Profile

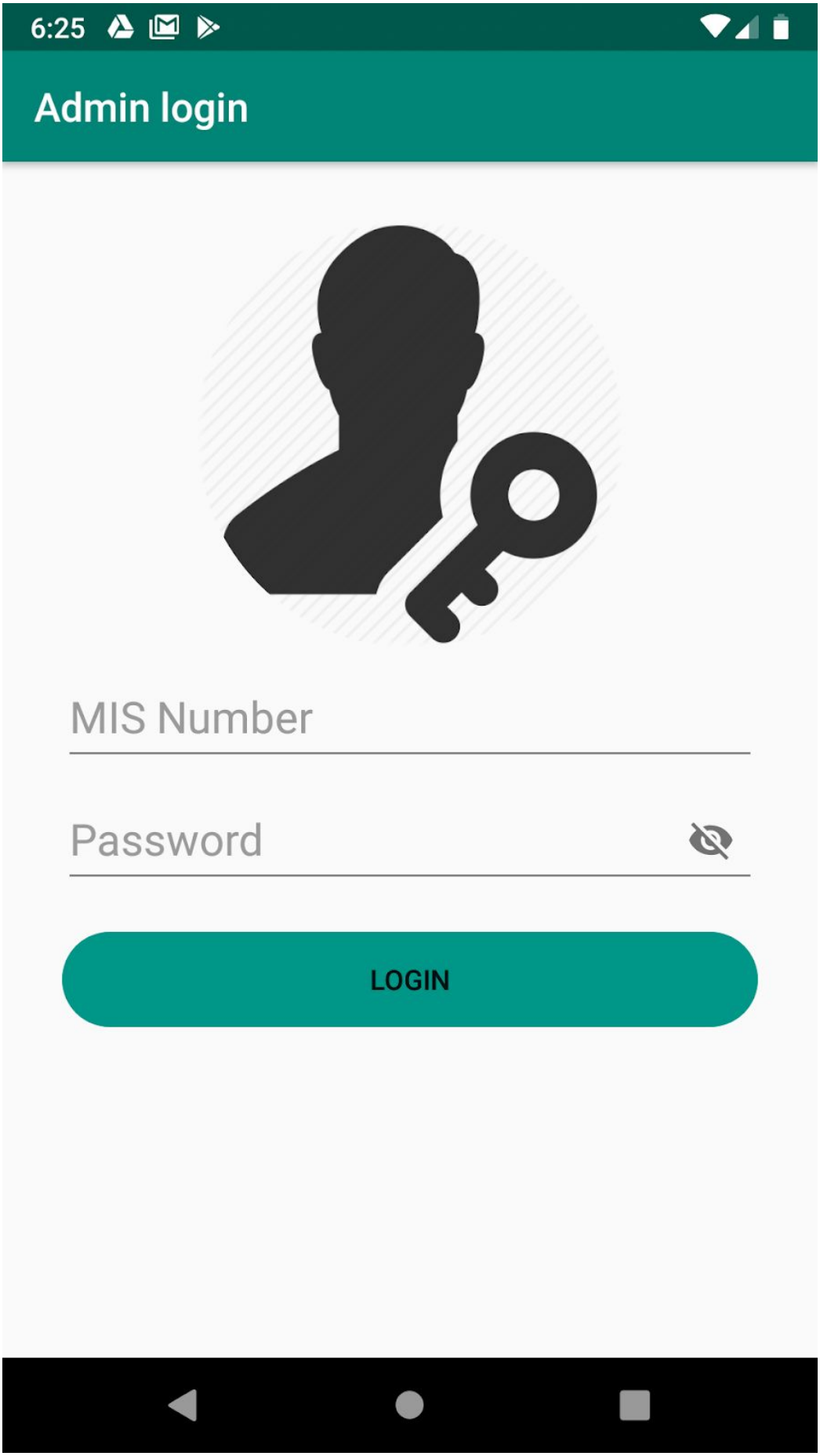

6:21
PICT T&P
PERSONAL INFORMATION
Student Name
Vaibhav Saraf
MIS Number
C2K17105736
Bio
Dynamic personality
Address
Pune
Mobile Number
documents


6:25
PICT T&P
Dynamic personality
Address
Pune
Mobile Number
9834630683
Mail ID
vaibhavgsaraf@gmail.com
ACADEMIC INFORMATION
Engg. aggregate percentage
8.4
Project
Android Tnp, ML
Special skills
ML, AI
Language familiar
Python
documents

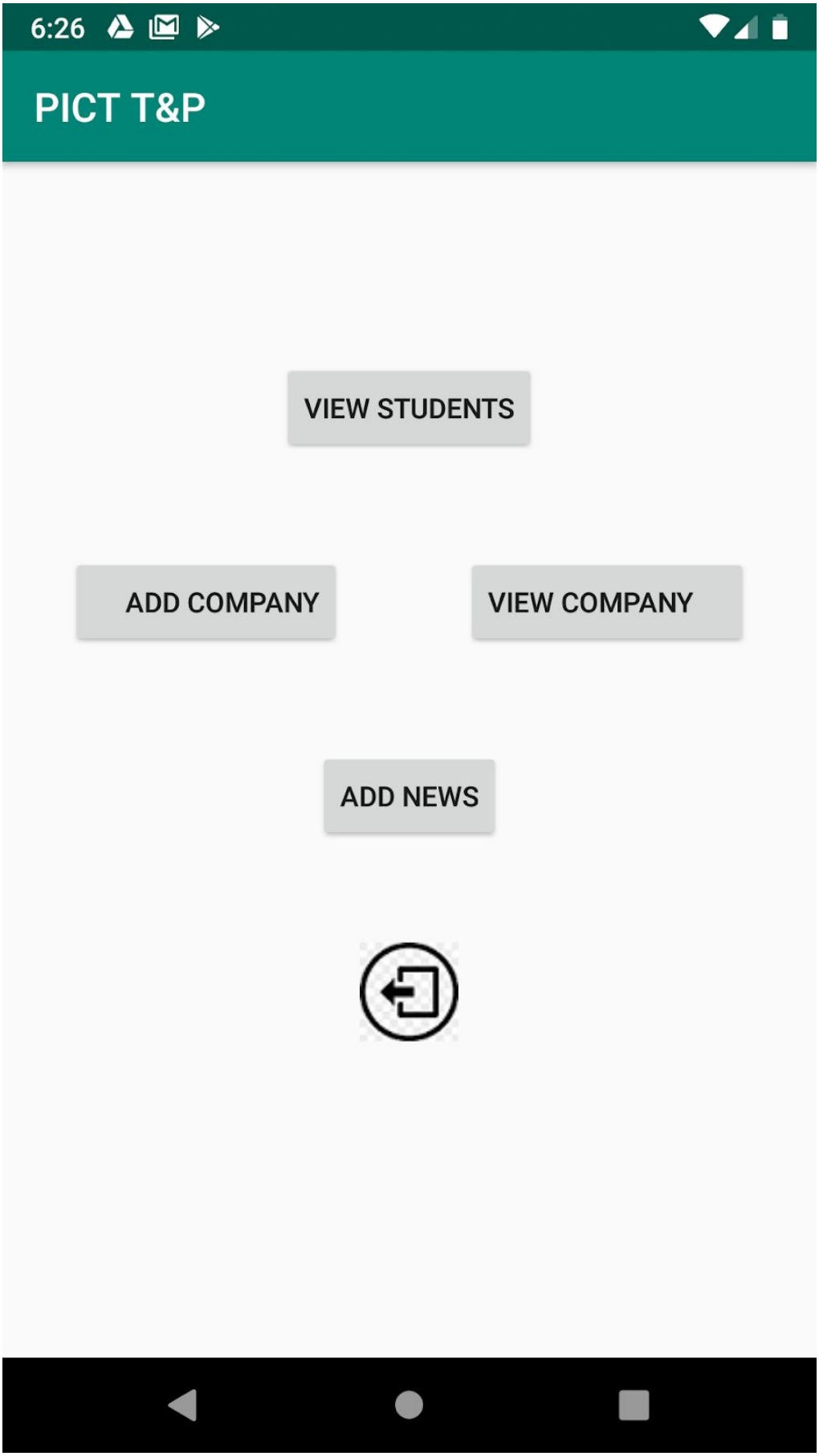
Logout


6:25
PICT T&P
Logout
Avaya
eQ Technologic
Deutsche Bank
HSBC
ZS associates
TCS Digital
Companies

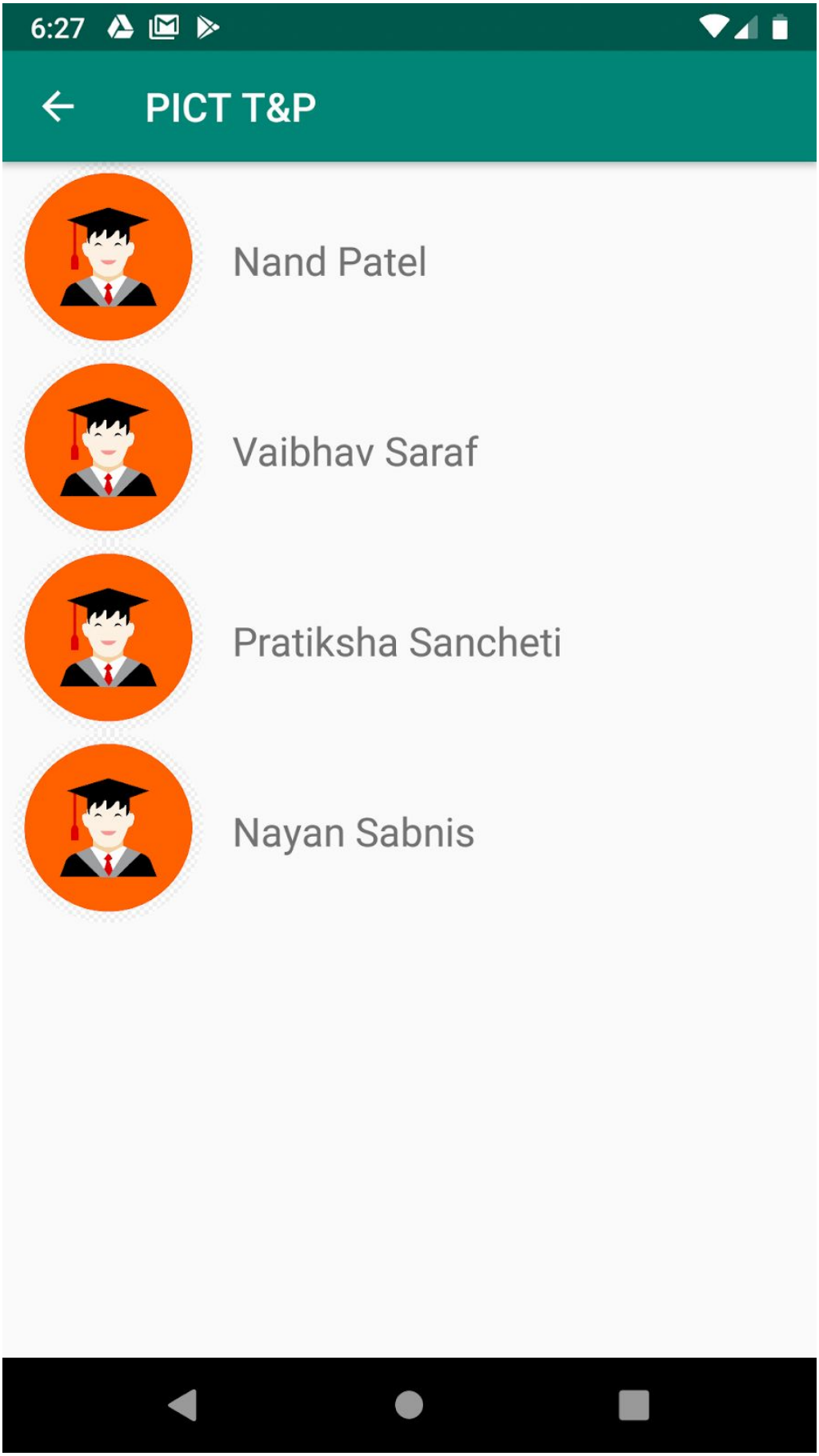
Admin Login



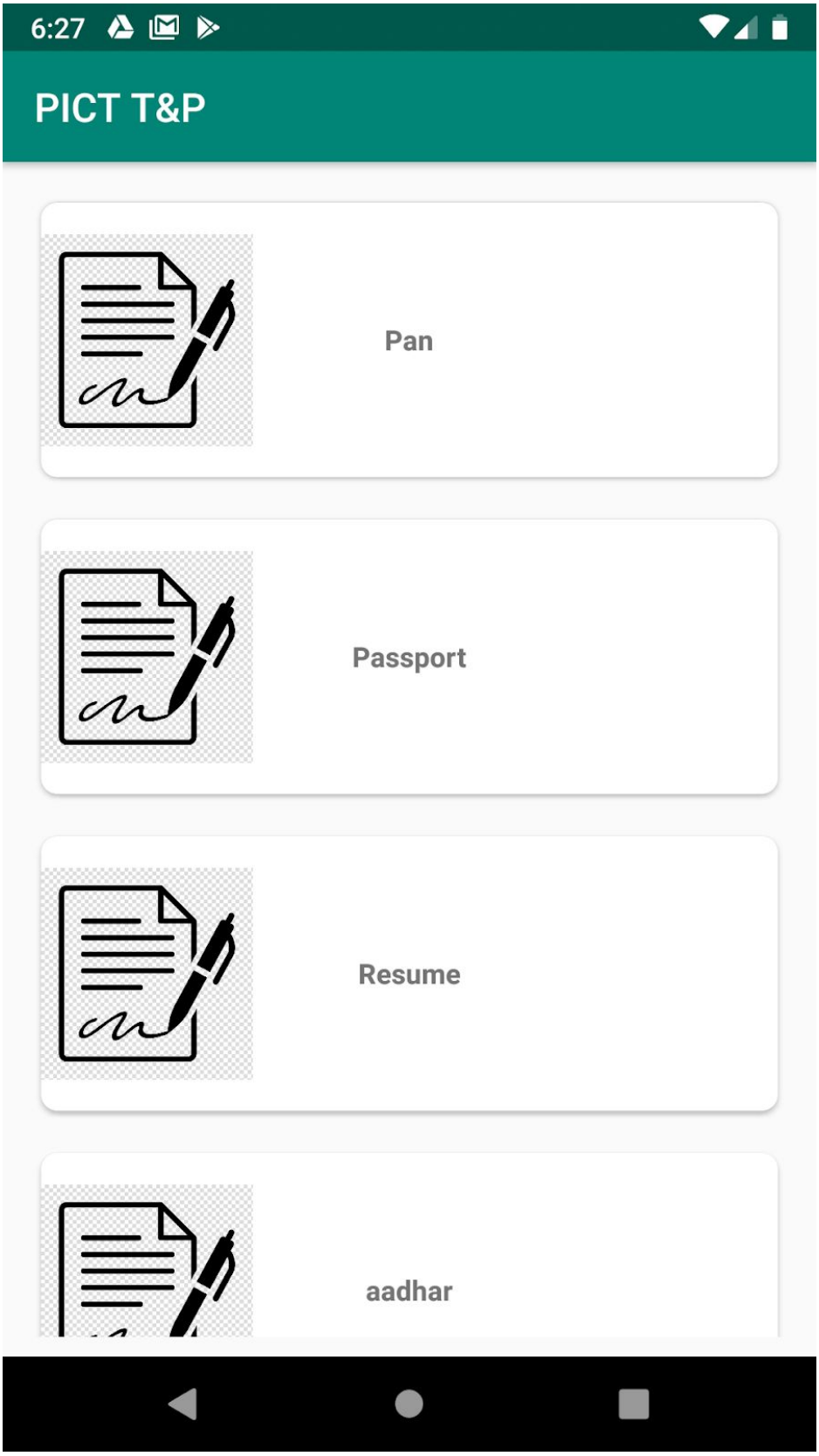
Features of Admin



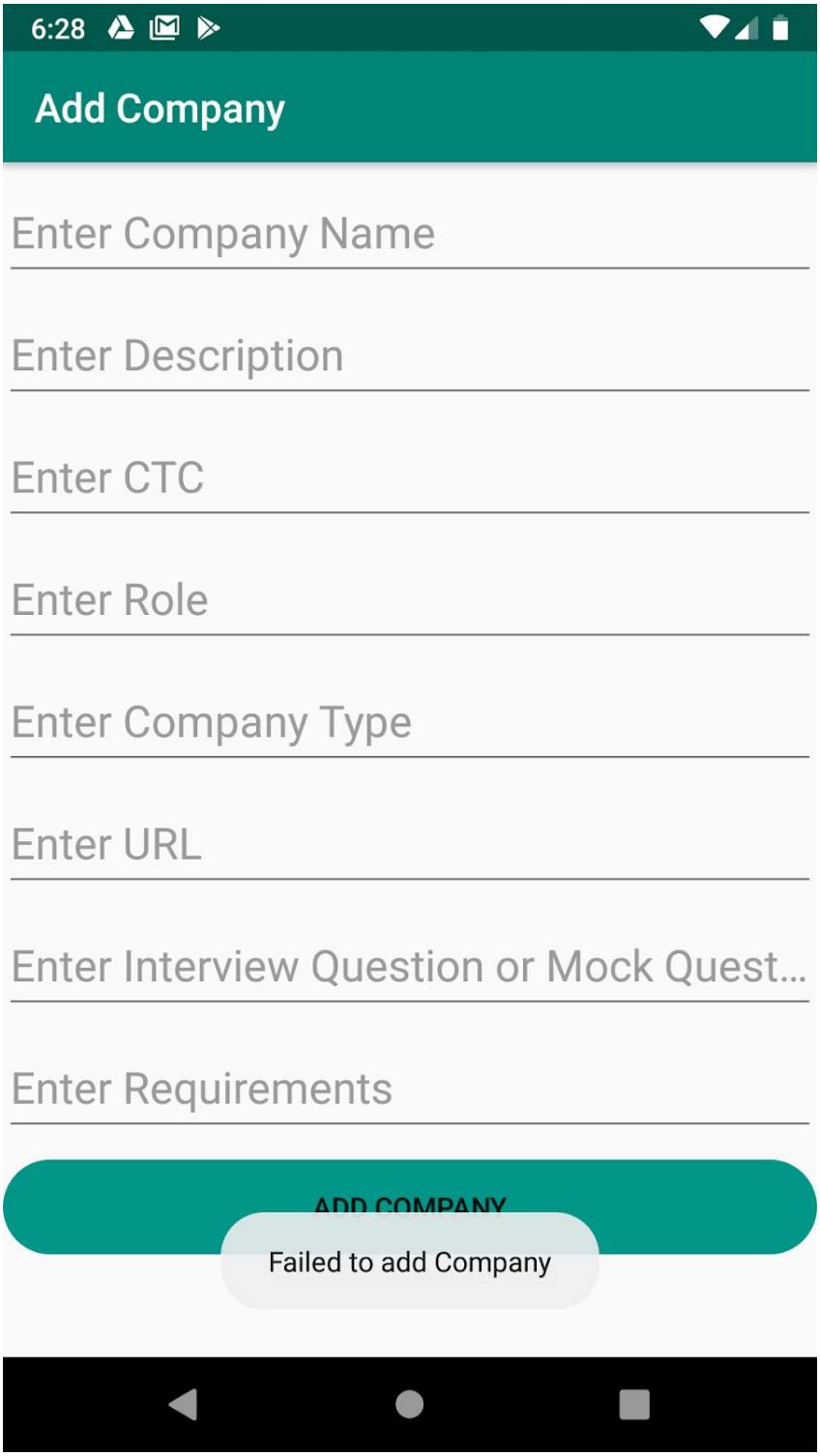
View Students



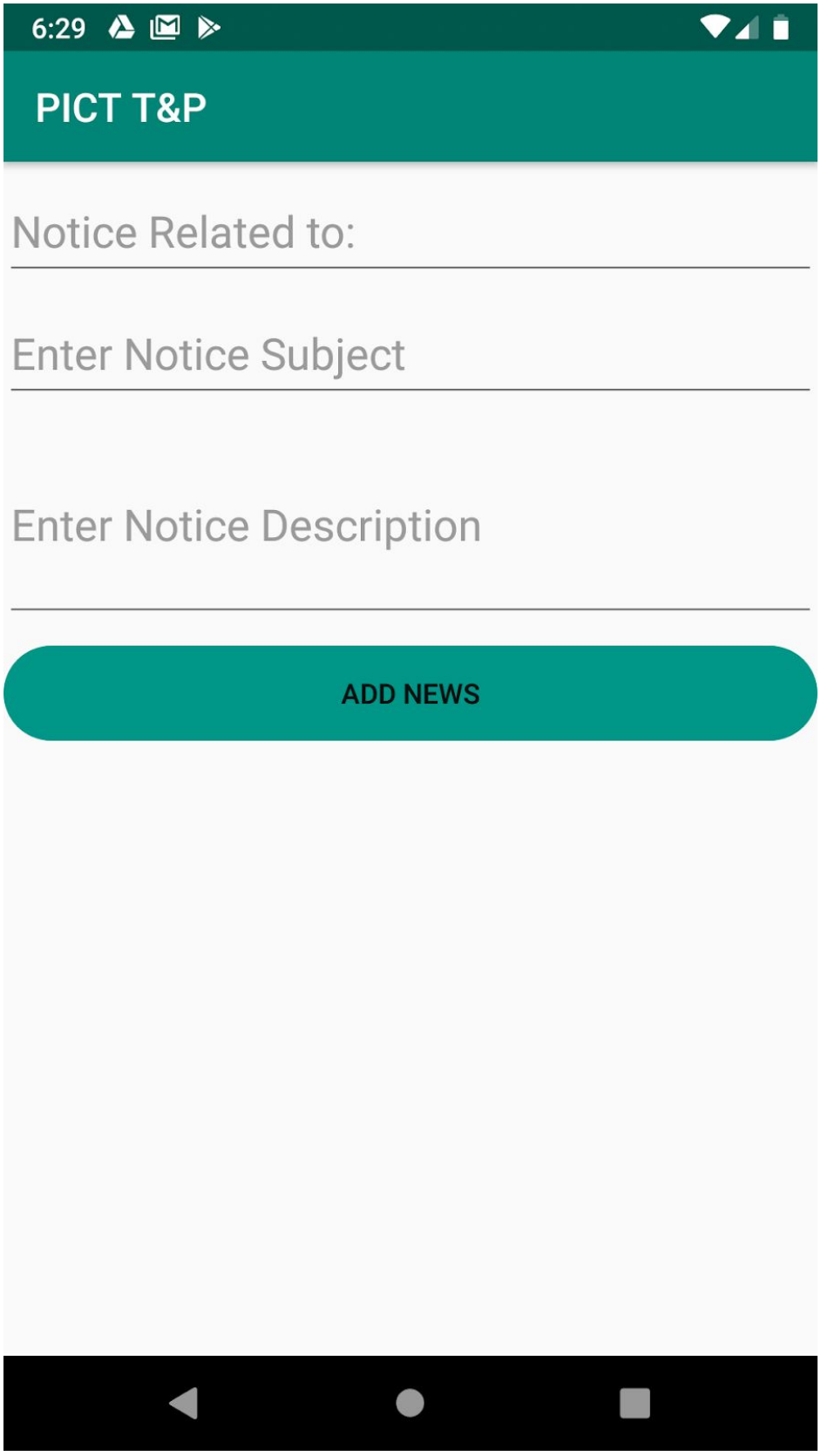
List of documents



Add Company


6:28
Add Company
Enter Company Name
Enter Description
Enter CTC
Enter Role
Enter Company Type
Enter URL
Enter Interview Question or Mock Quest...
Enter Requirements
ADD COMPANY
Failed to add Company

Add news


6:29
PICT T&P
Notice Related to:
Enter Notice Subject
Enter Notice Description
ADD NEWS

4. Conclusion :

TnP app was intended to simplify training and placement tasks for the college. With this application, Admin and user can perform numerous Tnp tasks from his phone itself. The GUI provided is so simple that any novice can also learn to use it.

Developing TnP app was a very enjoyable and learnable experience for our team. We had the privilege of going through the entire SDLC right from the requirement-gathering phase. We plan to further work on it and overcome its limitations and introduce additional features in the future.

5. REFERENCES

[1] Youtube. " FirebaseUI - FiresBase + RecyclerView - Android Studio Tutorial".

[2] Youtube. " Custom Buttons Design - Android Studio Tutorial".

[3] Cloud FireBase Documentation

[4] Android Documentation

[5] John Horton, Android Programming for Beginners ,Packt Publishing Ltd.