

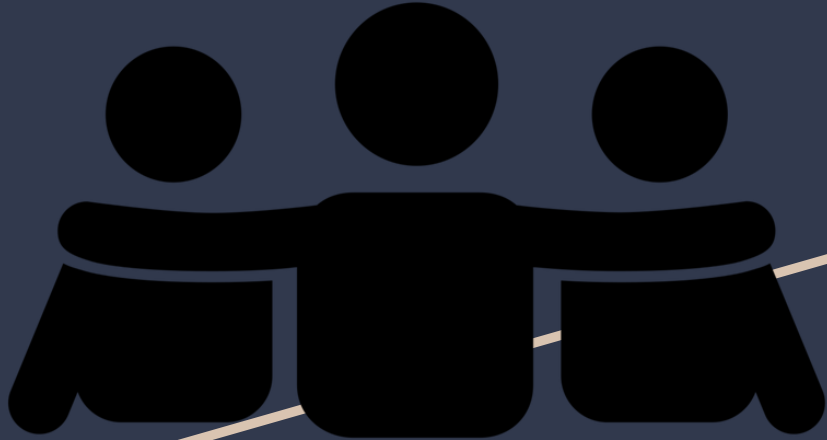
Large Applications Practicum

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.
- We will also make a web-interface to analyse and check attendance.

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



Front-End:

Activities Terminal Wed 11:38 AM

File Edit Selection View Go Debug Terminal Help MainScreen.js - AttendanceViaFaceRecognition - Visual Studio Code

EXPLORER IS MainScreen.js X IS App.js IS LoginScreen.js IS index.js

Terminal

File Edit View Search Terminal Tabs Help

Terminal x Terminal x Terminal x Terminal x

```
arpit@Bhadauria:~$ cd Study/Projects/AttendanceViaFaceRecognition/
arpit@Bhadauria:~/Study/Projects/AttendanceViaFaceRecognition$ react-native start

Running Metro Bundler on port 8081.

Keep Metro running while developing on any JS projects. Feel free to
close this tab and run your own Metro instance if you prefer.

https://github.com/facebook/react-native

Looking for JS files in
/home/arpit/Study/Projects/AttendanceViaFaceRecognition

Loading dependency graph, done.
BUNDLE [android, dev] ./index.js 100.0% (462/462), done.
BUNDLE [android, dev] ./index.js 100.0% (1/1), done.
LOG Running "AttendanceViaFaceRecognition" with {"rootTag":1}

{ .watchmanconfig 69
  JS App.js 71
  > MAVEN PROJECTS 72
  > OUTLINE 73
  > NPM SCRIPTS 74
  takePicture = async () => {
    if (this.camera) {
      const options = {quality: 0.5, base64: true};
```

on}

e your camera',

justifyContent: 'center'}}>

ndence </Text>

Login

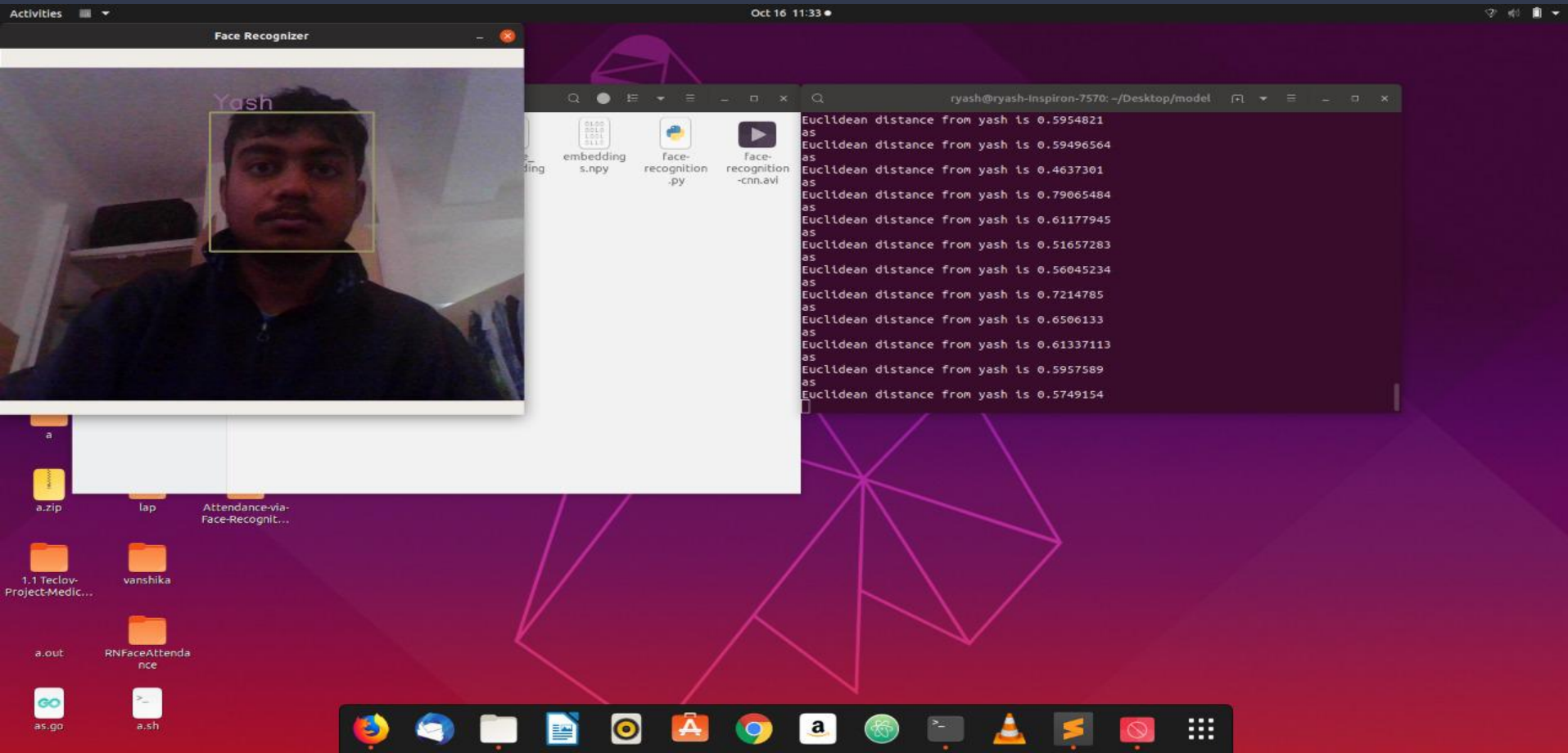
Username

Password

SUBMIT

Ln 58, Col 74 Spaces: 2 UTF-8 LF JavaScript

Model:



Backend:

```
tenebris@darkEques: ~  
File Edit View Search Terminal Help  
Table "public.faculty"  
Column | Type | Collation | Nullable | Default  
-----+-----+-----+-----+-----  
id | uuid | | not null | gen_random_uuid()  
name | character varying(50) | | not null |  
course | character varying(10) | | |  
attencrit | smallint | | |  
Indexes:  
"faculty_pkey" PRIMARY KEY, btree (id)  
  
aniket=> \d facultylogin  
Table "public.facultylogin"  
Column | Type | Collation | Nullable | Default  
-----+-----+-----+-----+-----  
id | uuid | | not null | gen_random_uuid()  
name | character varying(50) | | not null |  
email | character varying(50) | | not null |  
password | character varying(64) | | not null |  
Indexes:  
"facultylogin_pkey" PRIMARY KEY, btree (id)  
"facultylogin_email_key" UNIQUE CONSTRAINT, btree (email)  
  
aniket=> \d studentslogin  
Table "public.studentslogin"  
Column | Type | Collation | Nullable | Default  
-----+-----+-----+-----+-----  
rollno | character varying(10) | | not null |  
name | character varying(50) | | not null |  
email | character varying(50) | | not null |  
password | character varying(64) | | not null |  
Indexes:  
"studentslogin_pkey" PRIMARY KEY, btree (rollno)  
"studentslogin_email_key" UNIQUE CONSTRAINT, btree (email)  
Referenced by:  
TABLE "cs111" CONSTRAINT "cs111_rollno_fkey" FOREIGN KEY (rollno) REFERENCES studentslogin(rollno)  
  
aniket=> []
```




thank you!