ADVANCED SOFTWARE ENGINEERING

LAB ASSIGNMENT-5

Team ID: 5-2

Team Members: 1. Rahul Dhamerla

2.Teja Devarapalli

Assignment:

1.Create your own firebase account enable authentication using email and password.

2.Plugin Use at least one Cordova plugin related to your project.

3.Save the results obtained from the step -2 into any of the cloud services like firebase Real Time Database/storage to the user's respective account such that when he login again it should display the previously stored data.

4.Deploy the application to Web/Android/Ionic.

Requirements:

HTML5,CSS3,TypeScript,Webstorm,Ionic Lab, Google Firebase.

Implementation:

1.Creating an ionic project by using below commands:

On placing command prompt on project directory.

Command to create an ionic project: **ionic start appname tabs**

blank sidemenu

Please use the below commands:

ionic cordova build android

2.We have setup a camera feature on the home page. So, initially we have to install app on the mobile.

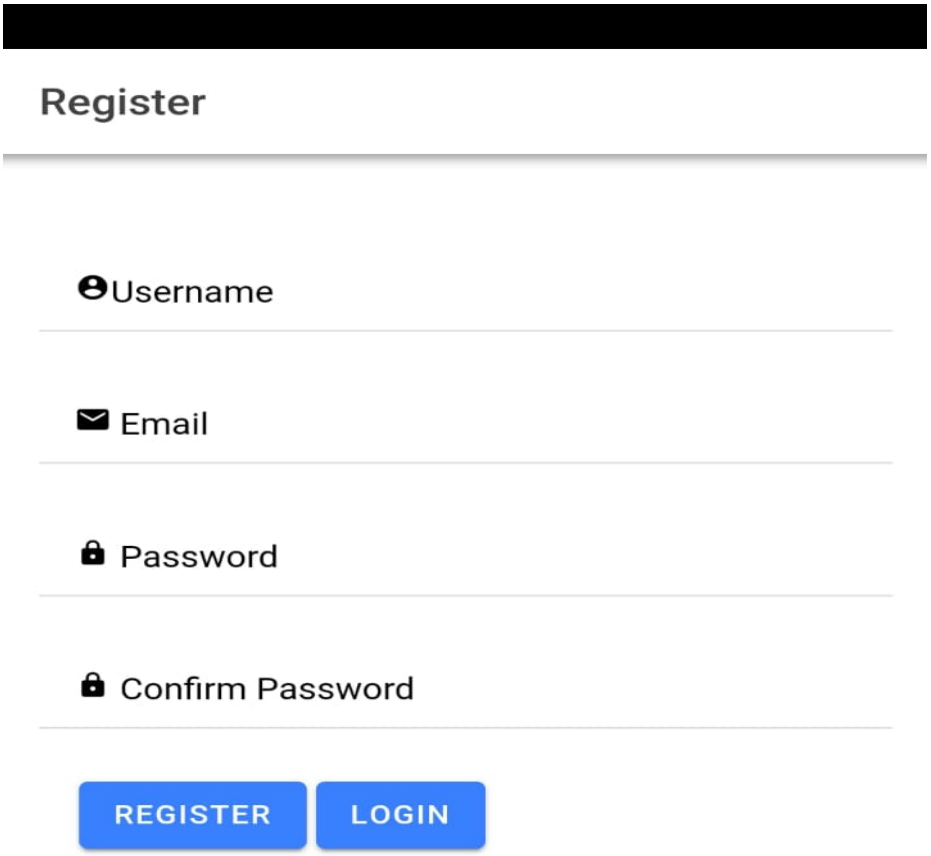
3.For storing the date firebase storage is used. Firebase is installed by running the below command:

npm install firebase angularfire2 –save

4. We have created an account on Firebase and from Firebase console we get the configurations with registered API key.

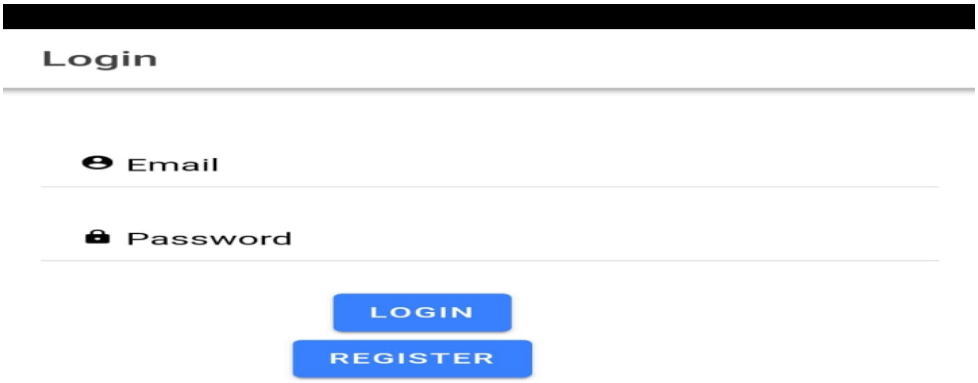
Register:

This is the open page after installing the application on android device. This helps the user to register with the required details. After registering with the details the credentials are stored in firebase real time database.

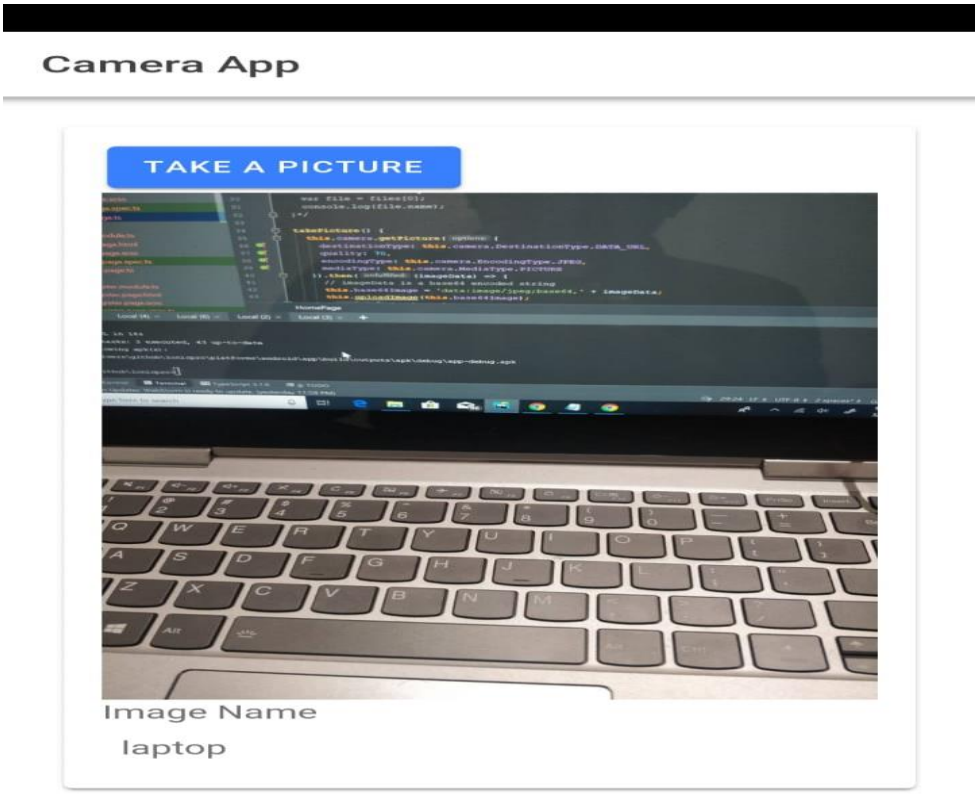


Login:

Once the users registered the details, then will be able to sign in with the email and password used while setting up the account. After login the home page is displayed where we have an option to take pictures. These pictures are saved in Google Firebase real time database.


Login
Email
Password
LOGIN
REGISTER

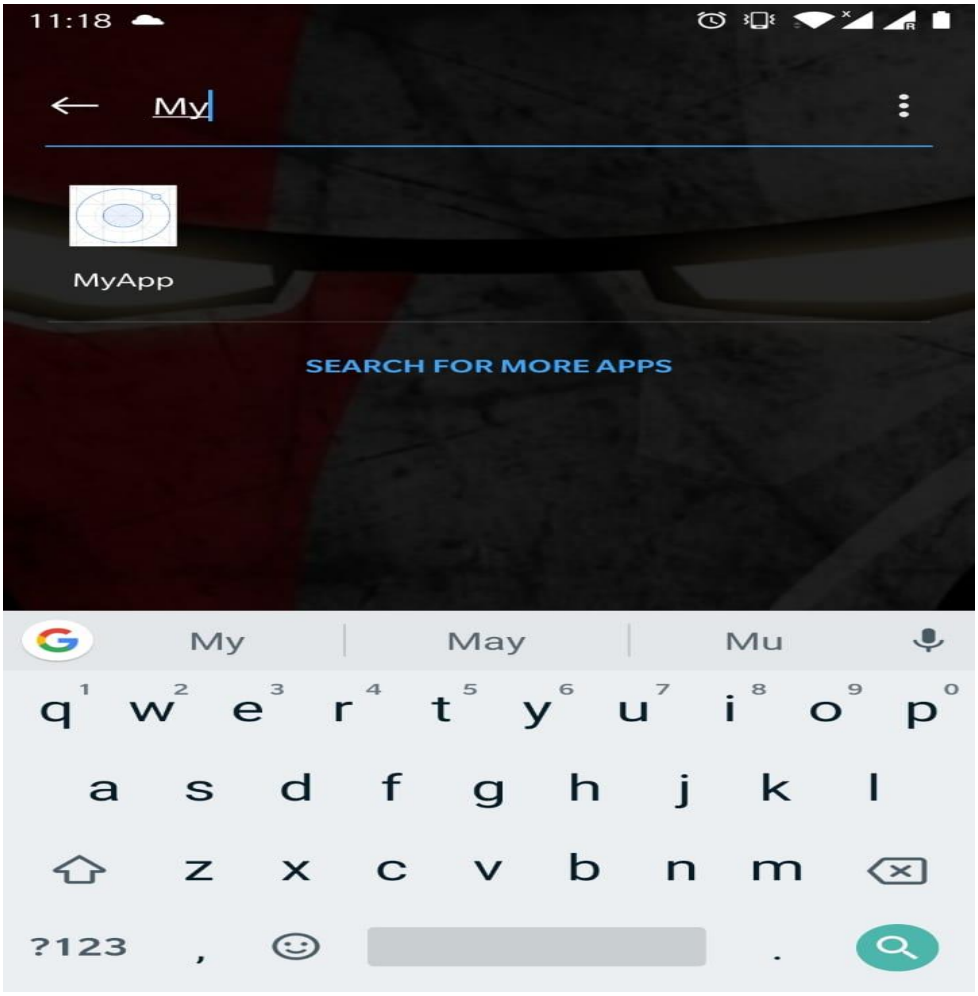
Camera App
TAKE A PICTURE
Image Name
imagename

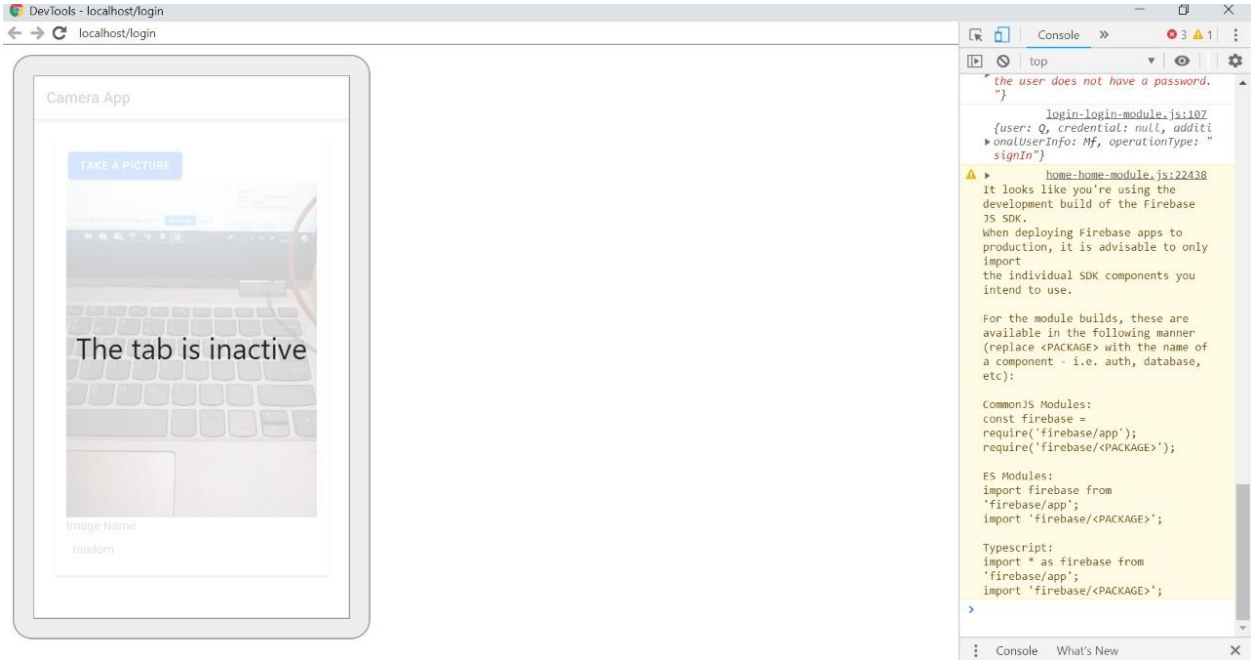


After finishing the project, we ran below commands:

Ionic cordova build android

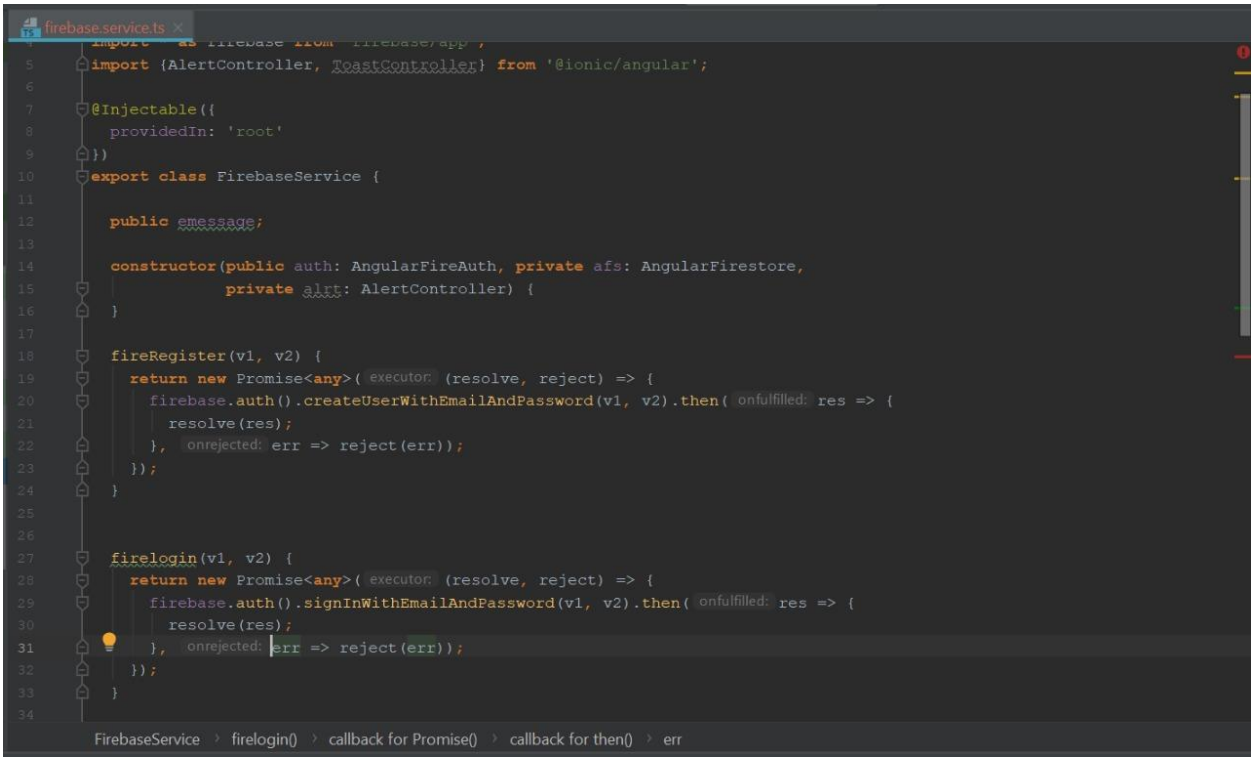
Then Apk file is generated and it is installed in an android device.


11:18
My
MyApp
SEARCH FOR MORE APPS
My
May
Mu


DevTools - localhost/login
localhost/login
Camera App
TAKE A PICTURE
The tab is inactive
Image Name
random
Console
top
the user does not have a password.
"}
login-login-module.js:107
{user: Q, credential: null, additi
onalUserInfo: Mf, operationType: "
signIn"}
home-home-module.js:22438
It looks like you're using the
development build of the Firebase
JS SDK.
When deploying Firebase apps to
production, it is advisable to only
import
the individual SDK components you
intend to use.
For the module builds, these are
available in the following manner
(replace <PACKAGE> with the name of
a component - i.e. auth, database,
etc):
CommonJS Modules:
const firebase =
require('firebase/app');
require('firebase/<PACKAGE>');
ES Modules:
import firebase from
'firebase/app';
import 'firebase/<PACKAGE>';
Typescript:
import * as firebase from
'firebase/app';
import 'firebase/<PACKAGE>';
Console
What's New

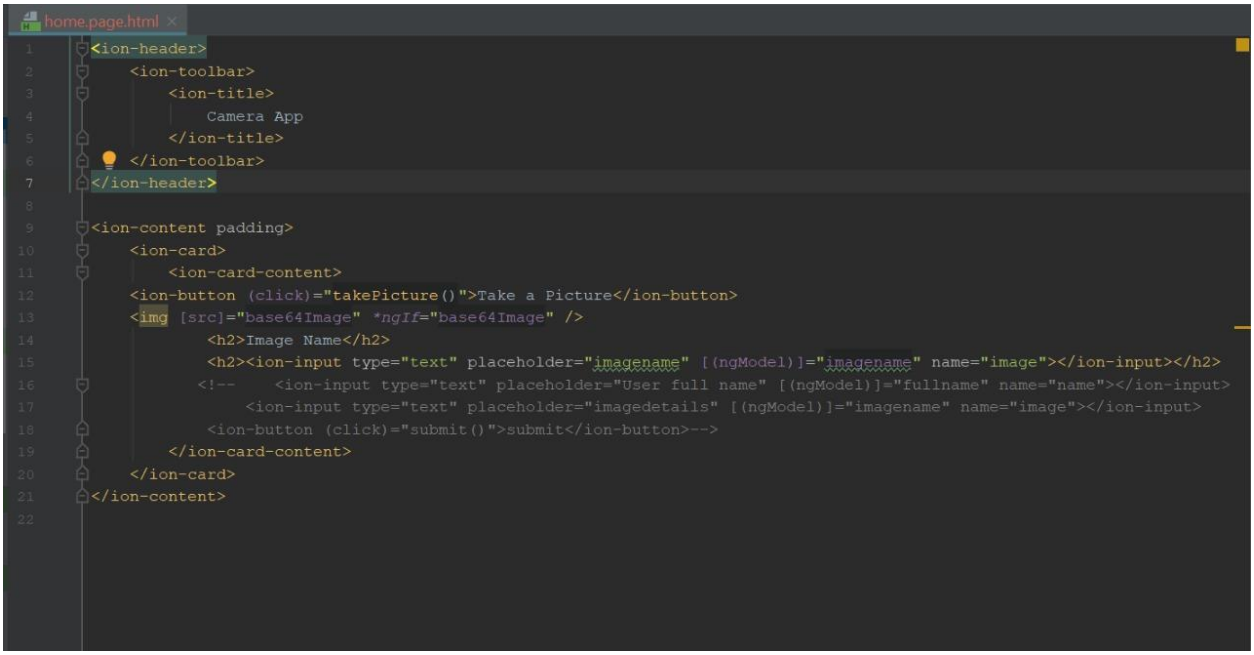
Source code:

Firebase.service.ts:



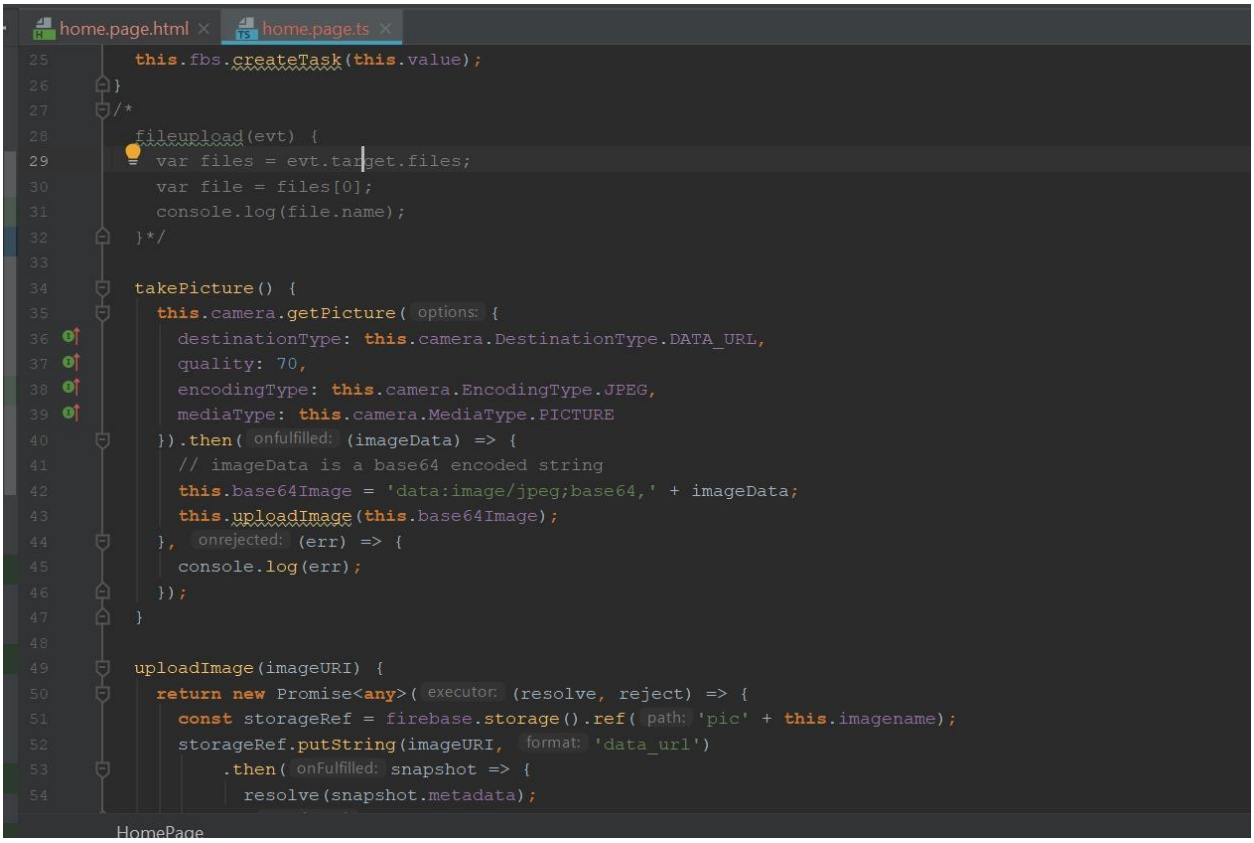
```
import {AlertController, ToastController} from '@ionic/angular';

@Injectable({
  providedIn: 'root'
})
export class FirebaseService {

  public emessage;

  constructor(public auth: AngularFireAuth, private afs: AngularFirestore,
              private alrt: AlertController) {
  }

  fireRegister(v1, v2) {
    return new Promise<any>( executor: (resolve, reject) => {
      firebase.auth().createUserWithEmailAndPassword(v1, v2).then( onfulfilled: res => {
        resolve(res);
      }, onrejected: err => reject(err));
    });
  }


  firelogin(v1, v2) {
    return new Promise<any>( executor: (resolve, reject) => {
      firebase.auth().signInWithEmailAndPassword(v1, v2).then( onfulfilled: res => {
        resolve(res);
      }, onrejected: err => reject(err));
    });
  }

FirebaseService › firelogin() › callback for Promise() › callback for then() › err
```

Homepage.html:

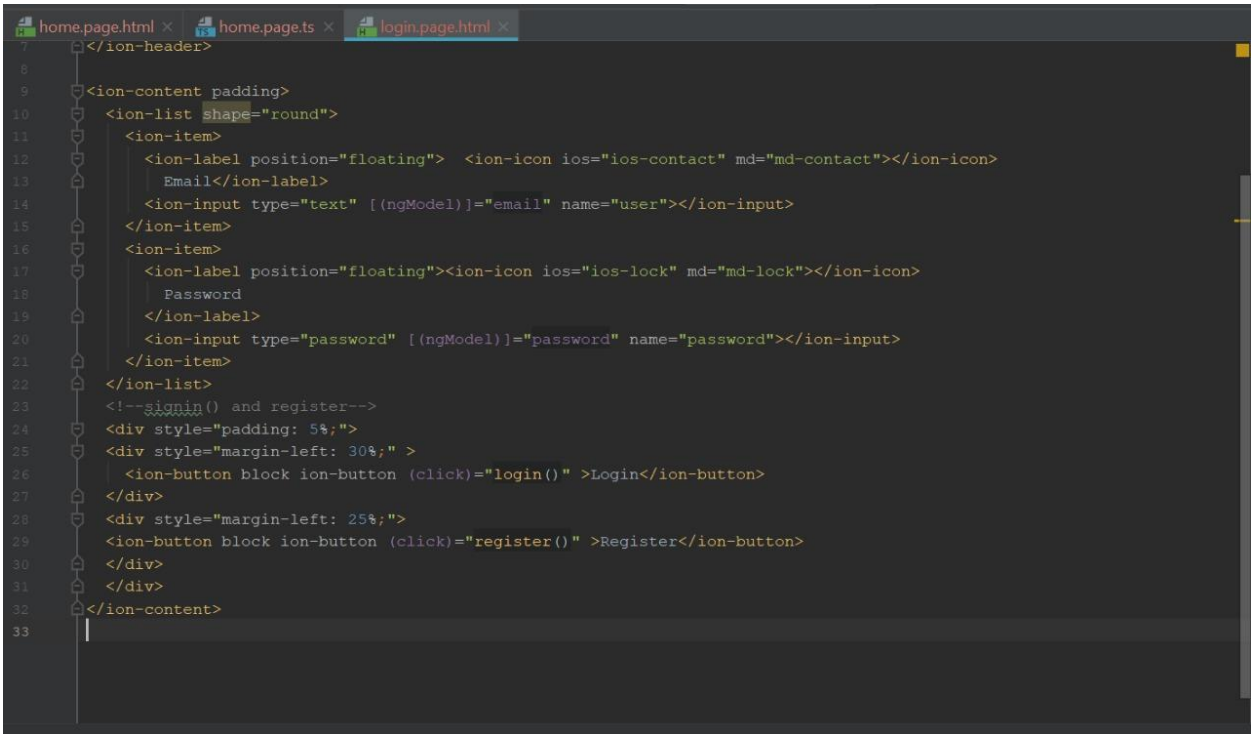


```
<ion-header>
    <ion-toolbar>
        <ion-title>
            Camera App
        </ion-title>
    </ion-toolbar>
</ion-header>

<ion-content padding>
    <ion-card>
        <ion-card-content>
    <ion-button (click)="takePicture()">Take a Picture</ion-button>
    <img [src]="base64Image" *ngIf="base64Image" />
            <h2>Image Name</h2>
            <h2><ion-input type="text" placeholder="imagename" [(ngModel)]="imagename" name="image"></ion-input></h2>
          <!--    <ion-input type="text" placeholder="User full name" [(ngModel)]="fullname" name="name"></ion-input>
              <ion-input type="text" placeholder="imagedetails" [(ngModel)]="imagename" name="image"></ion-input>
            <ion-button (click)="submit()">submit</ion-button>-->
        </ion-card-content>
    </ion-card>
</ion-content>
```

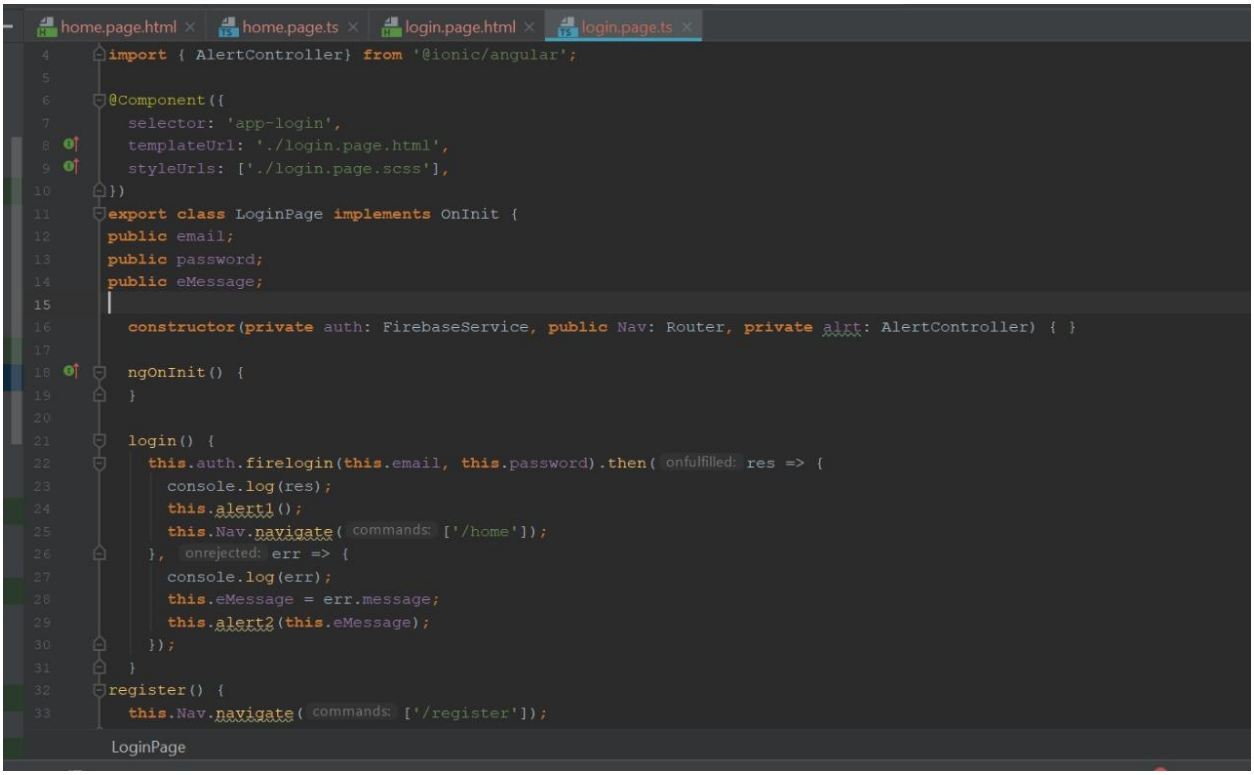
Homepage.ts:



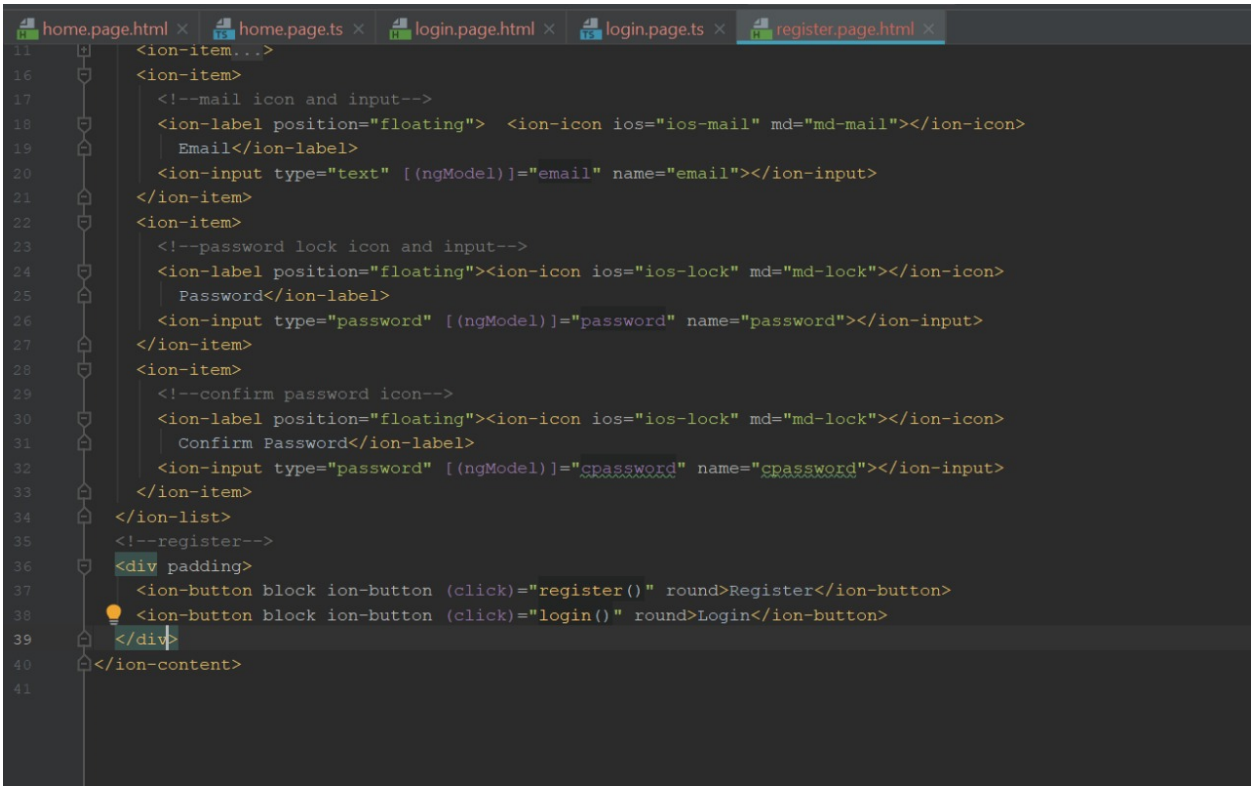
Loginpage.html:



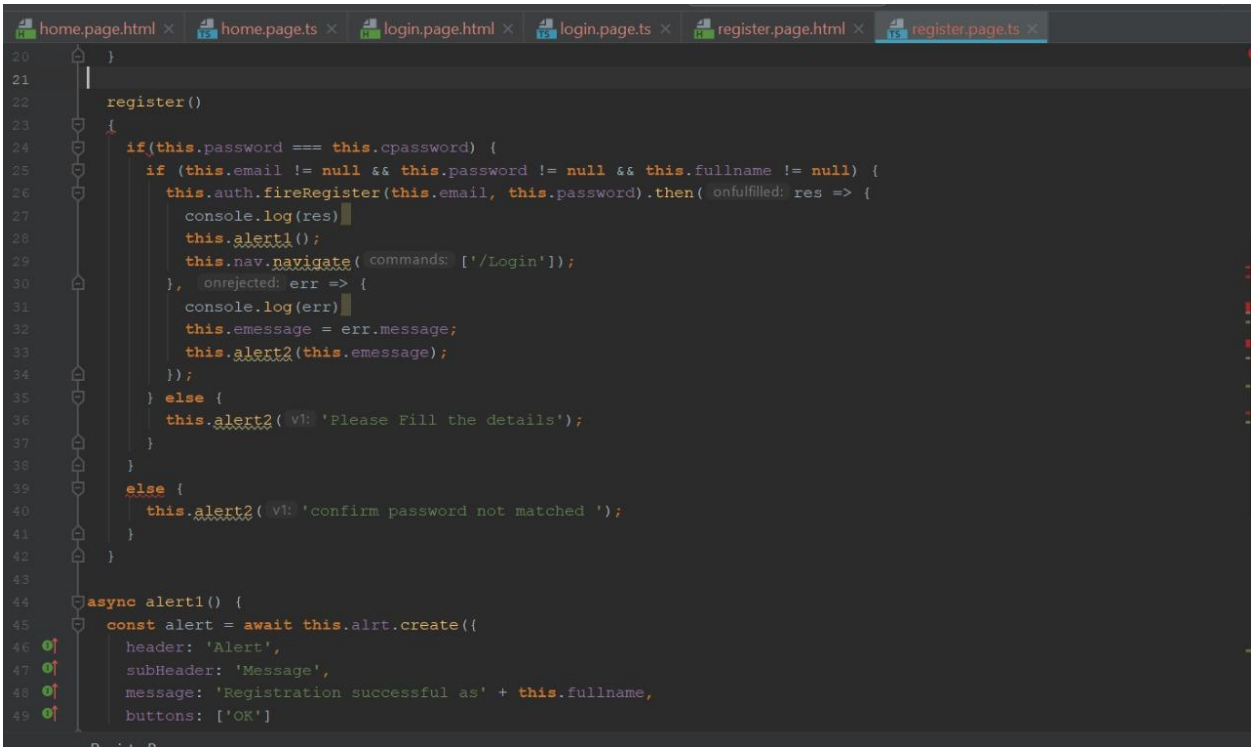
Loginpage.ts:



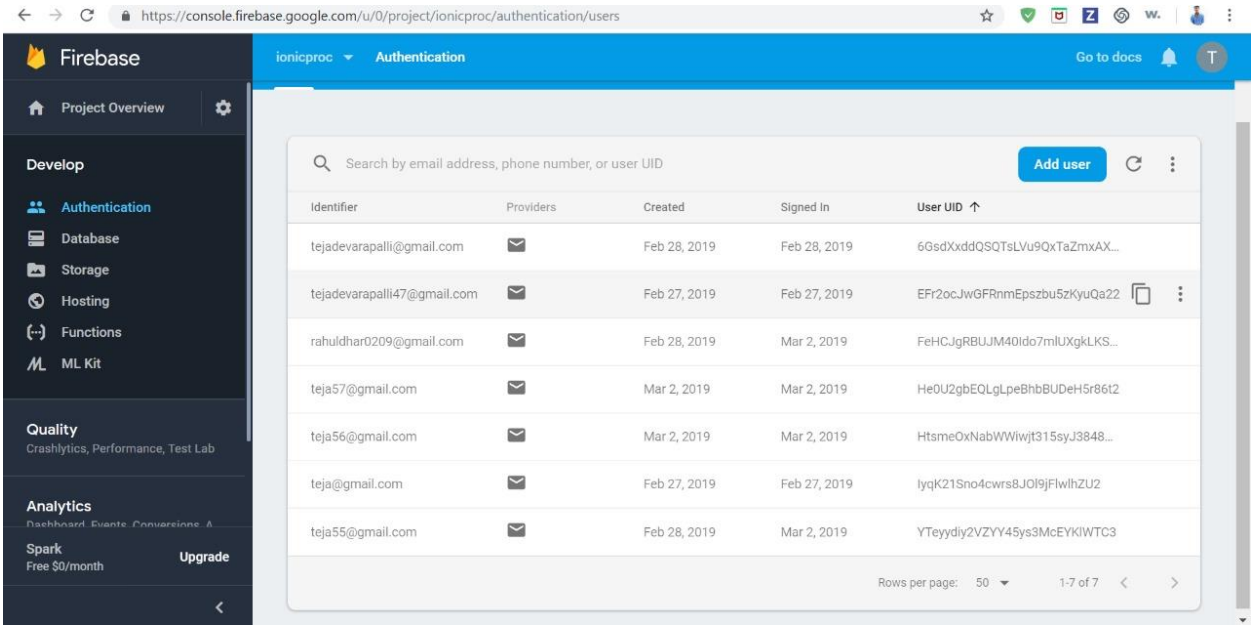
Registerpage.html:

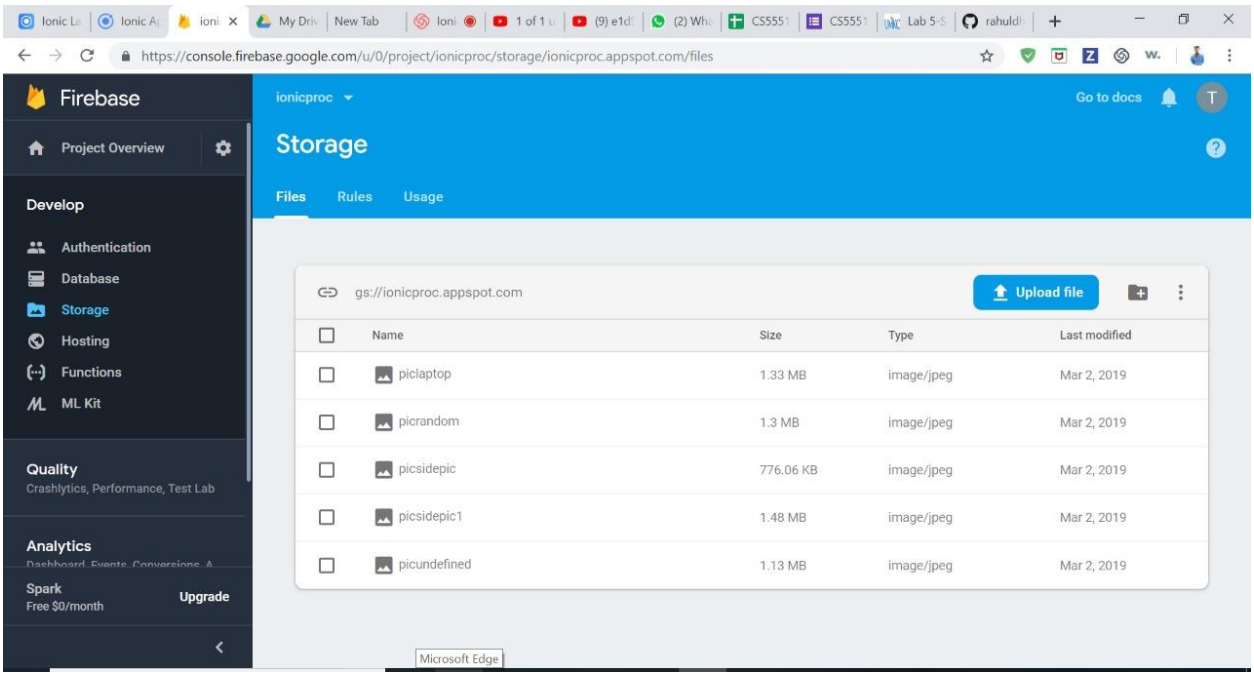


Registerpage.ts:



FireBase Real time database:





Contributions:

Rahul Dhamerla-7

1.Setup Ionic Project

2.Register page and logic

3.Added Firebase Configuration

4.Documentation

Teja Devarapalli-5

1.Created and implemented login pages.

2.Saving registration details in Firebase.

3.Validating user login details.

4.Created home page and implemented ionic cordova camera plugin.

5.Saving the pictures in Firebase real time database.