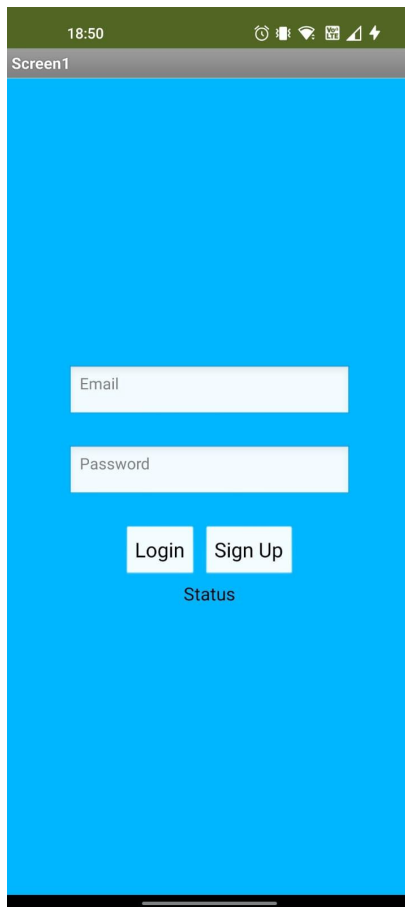# SPRINT 2

Sprint 2 focuses on user authentication and registration.
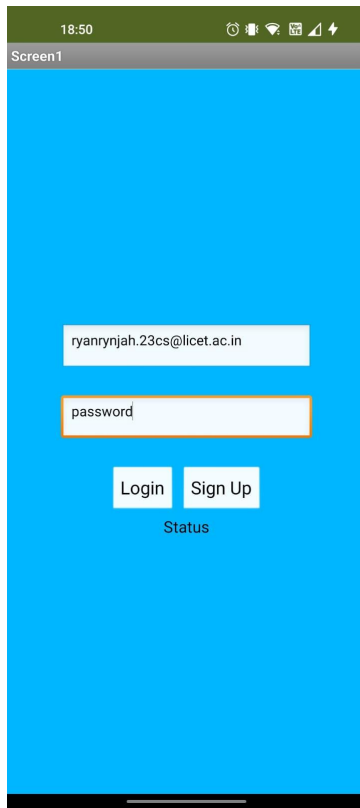
Employees can sign up and log in to the app using an email address and password.

This is achieved through Google Firebase Authentication.

User Interface

The authentication page that greets users.

18:50 Screen1

ryanrynjah.23cs@licet.ac.in

password

Login Sign Up

Status

Users can enter their credentials and press either Sign In or Login.

18:50 Screen1

Status

Please verify email and retry.

OK
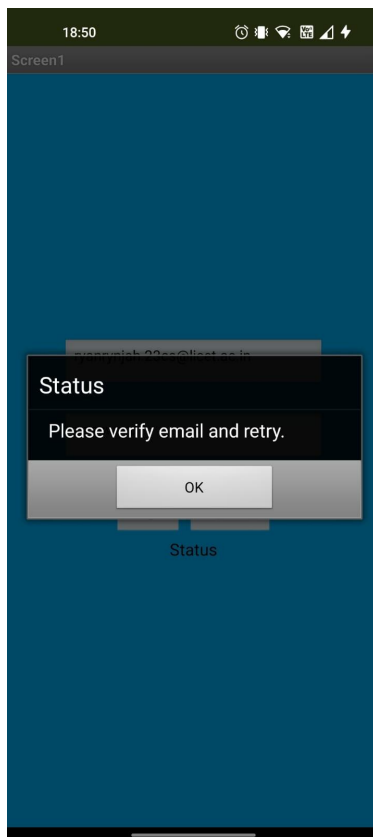
Status

If an unregistered user tries to login, they are greeted with this error
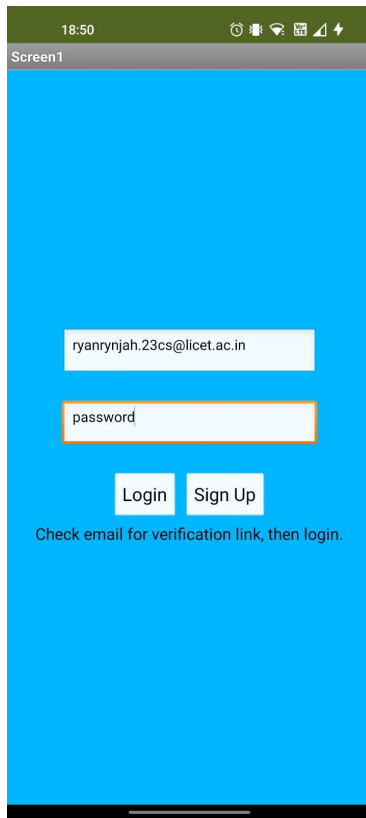
If the user chooses to Sign Up, the status message changes, indicating to users to go check their mail for a verification link.

noreply@hazsafe-f1f04.firebaseapp.com
to me

6:50 PM (0 minutes ago)

Hello,

Follow this link to verify your email address.

https://hazsafe-f1f04.firebaseapp.com/__/auth/action?mode=verifyEmail&oobCode=3yCP4V9wl0Z731Cprf7i3phCnaRS-dbvQuq1-xSfLbUAAAGEkAwkiw&apiKey=AlzaSyD57BrXD3uXk_Mil1AI74R8-g-ByAla5Dg&lang=en

Reply   Forward

The verification mail arrives (sometimes in spam folder) with the verification link.

Your email has been verified

You can now sign in with your new account
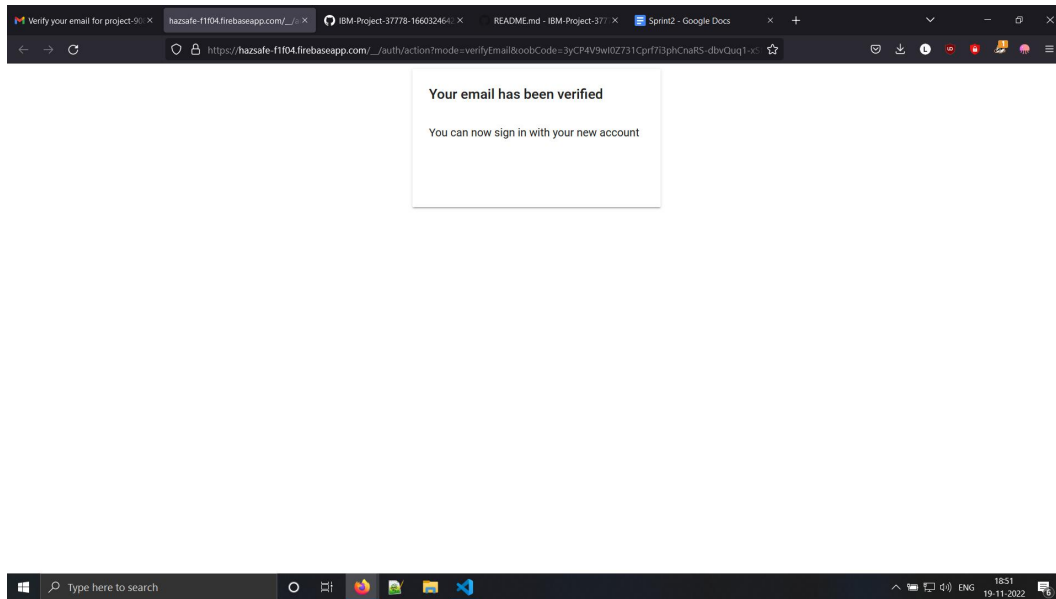
Users who click the link are redirected to the above page which indicates that their email has been verified.
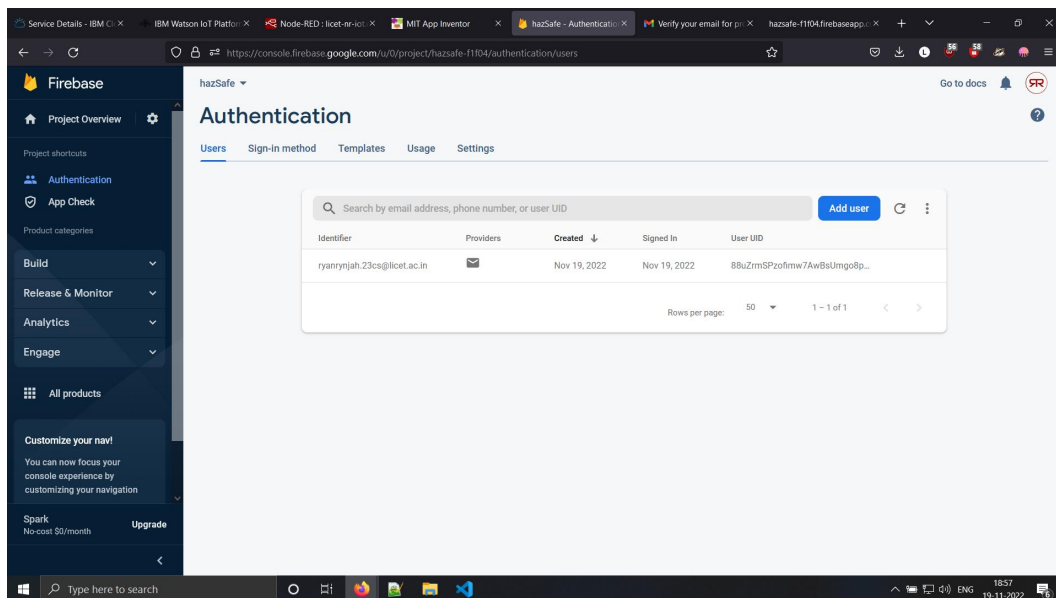
If we check the Firebase Authenication Console, we see that the user has indeed been added to the list of verified users.

ryanrynjah.23cs@licet.ac.in

password

Login   Sign Up

Check email for verification link, then login.

Site 1 Temp:	39	Exit: F-01
Site 2 Temp:	44	Exit: F-21
Site 3 Temp:	43	Exit: C-23
Site 4 Temp:	39	Exit: A-27
Site 5 Temp:	39	Exit: C-25
Site 6 Temp:	29	Exit: D-15
Site 7 Temp:	35	Exit: E-13

Now if the user clicks login, they are redirected to the next page.

Firebase API

The first step is to log in and create a Firebase project and obtain an API key.

```
initialize global  getAccountInfo  to  " https://identitytoolkit.googleapis.com/v1/accoun… "
initialize global  login  to  " https://identitytoolkit.googleapis.com/v1/accoun… "
initialize global  token  to  " ▢ "
initialize global  API  to  " AIzaSyD57BrXD3uXk_Mil1AI74R8-q-ByAIa5Dg "
initialize global  createaccount  to  " https://identitytoolkit.googleapis.com/v1/accoun… "
initialize global  datalist  to  create empty list
```

```
when  SignUpB  .Click
do   set  Web1 . Url  to   join  get global createaccount
                                   get global API
     call  Web1 .PostText
                      text   join  " email= "
                                   TextBox1 . Text
                                   " &password= "
                                   TextBox2 . Text
                                   " returnSecureToken=true "
```

The above block handles account creation when the Sign Up button is pressed.

```
when  Web1 ▾ .GotText
  url  responseCode  responseType  responseContent
  do  set  Label4 ▾ . Text ▾  to  " Check email for verification link, then login. "
      set  global datalist ▾  to  call  Web1 ▾ .JsonTextDecode
                                         jsonText  get  responseContent ▾
      set  global token ▾  to  look up in pairs  key  " idToken "
                                                 pairs  get  global datalist ▾
                                              notFound  " not found "
      set  Web2 ▾ . Url ▾  to  ⚙ join  get  global login ▾
                                       get  global API ▾
      call  Web2 ▾ .PostText
                        text  ⚙ join  " idToken= "
                                      get  global token ▾
                                      " &requestType= "
                                      " VERIFY_EMAIL "
      call  Screen1 ▾ .HideKeyboard
```

This block sends the verification email on successful account creation.
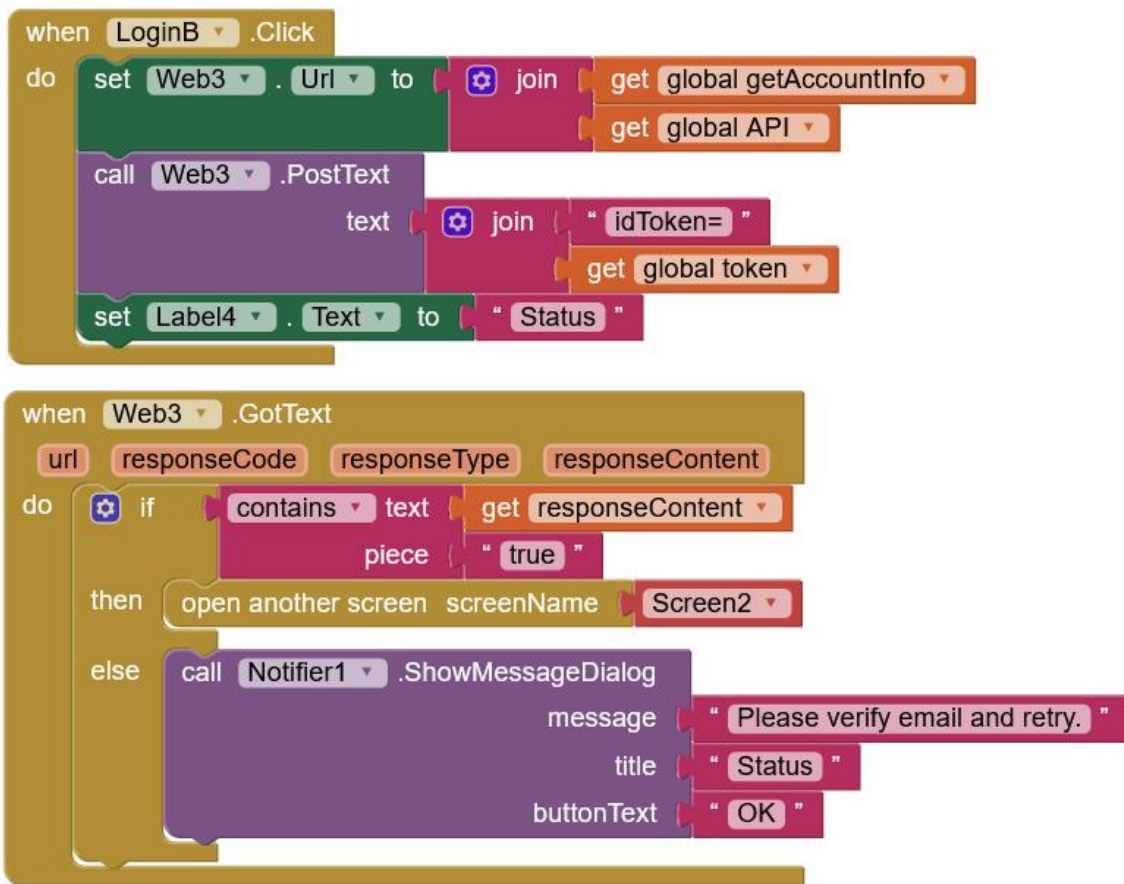
This block checks if the account is verified when Login is clicked. If verified, it opens the next page of the app.