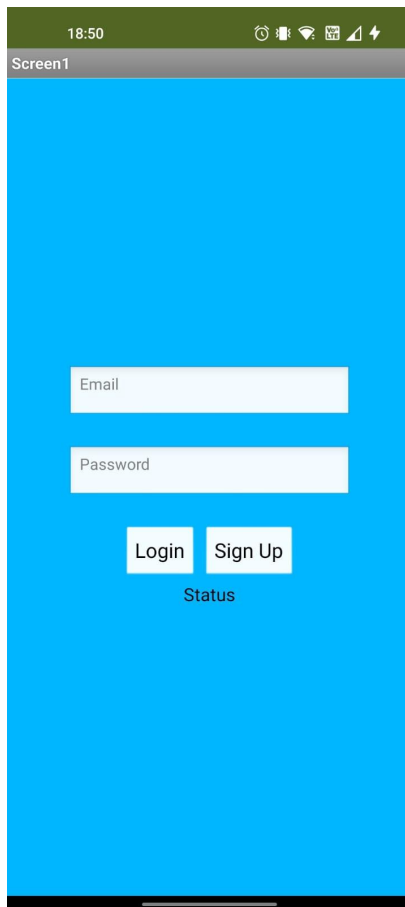# SPRINT 2

Date	31 October 2022
Team ID	PNT2022TMID27462
Project Name	Project - Hazardous Area Monitoring for Industrial Plant powered by IoT

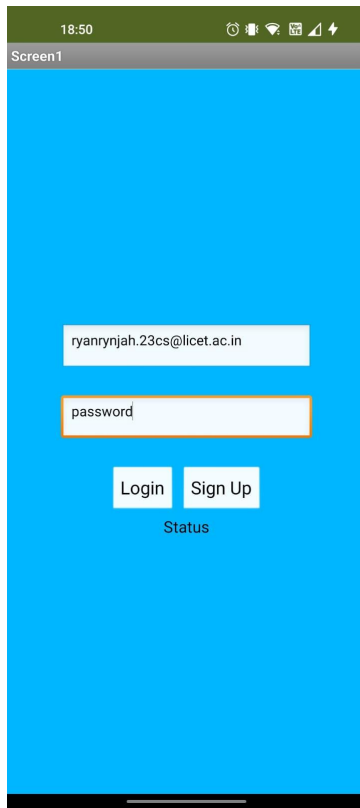Sprint 2 focuses on user authentication and registration.

Employees can sign up and log in to the app using an email address and password.

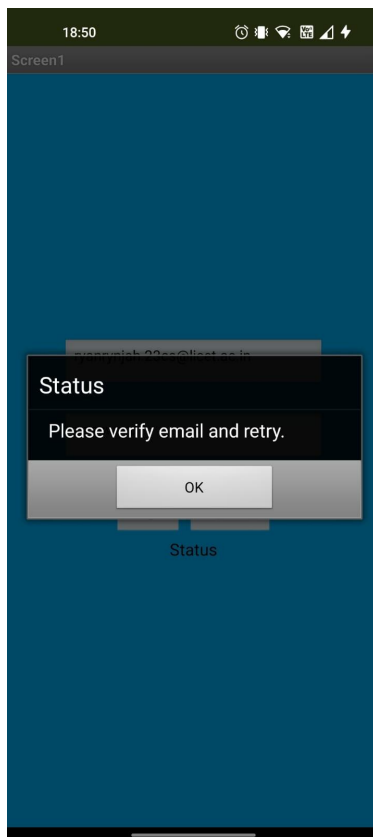This is achieved through Google Firebase Authentication.

User Interface

The authentication page that greets users.

ryanrynjah.23cs@licet.ac.in

password

Login   Sign Up

Status

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

Status

Please verify email and retry.

OK

Status

If an unregistered user tries to login, they are greeted with this error

Screen1

18:50

ryanrynjah.23cs@licet.ac.in

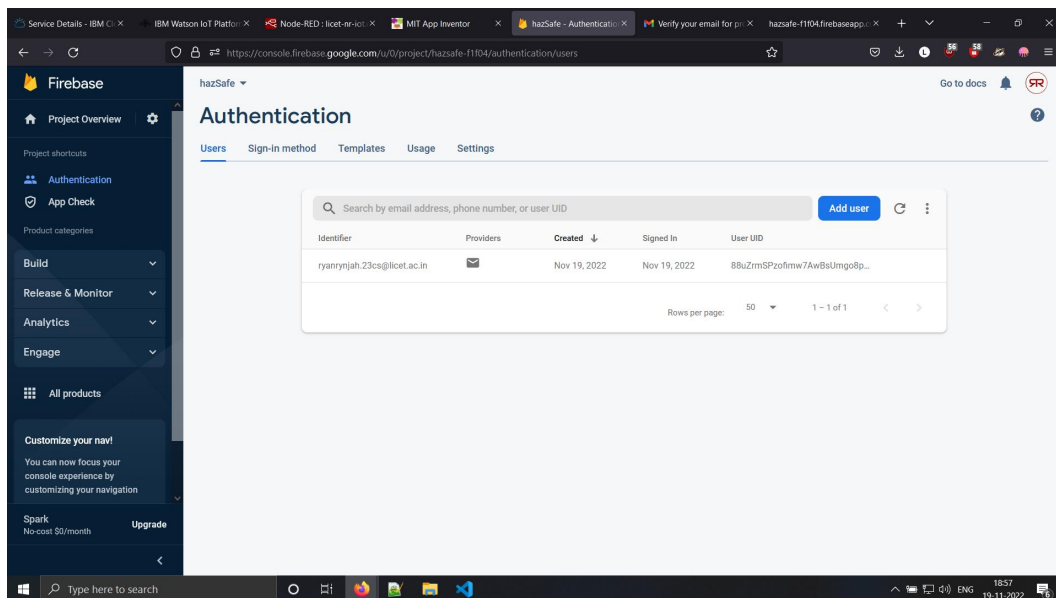password

Login   Sign Up

Check email for verification link, then login.
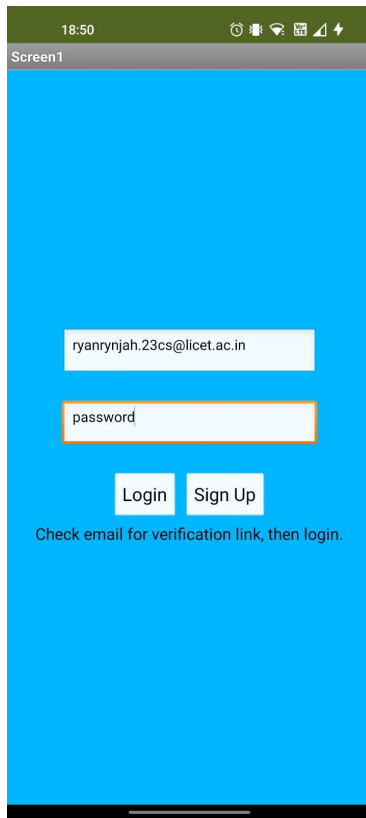
If the user chooses to Sign Up, the status message changes, indicating to users to go check their mail for a verification link.

noreply@hazsafe-f1f04.firebaseapp.com   6:50 PM (0 minutes ago)
to me

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.
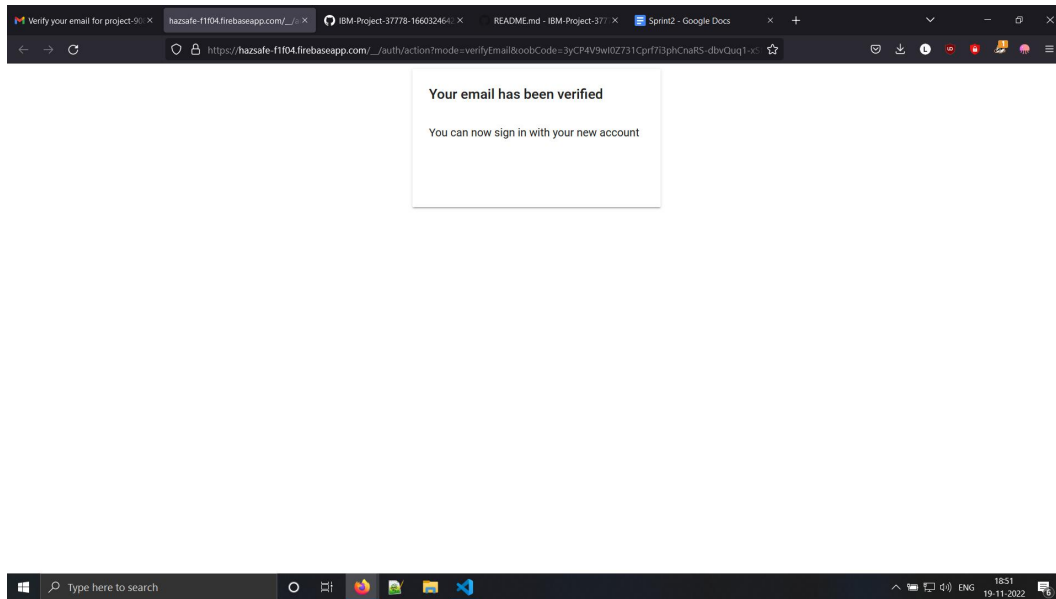
Users who click the link are redirected to the above page which indicates that their email has been verified.

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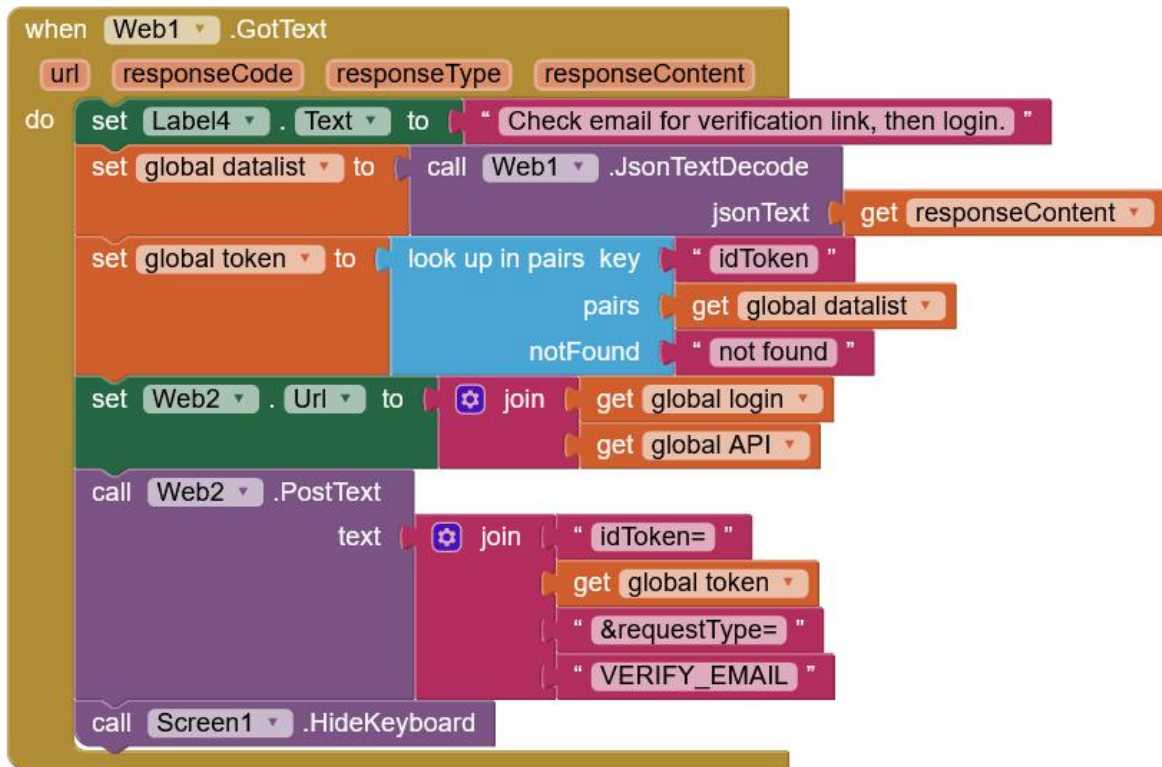
This block sends the verification email on successful account creation.
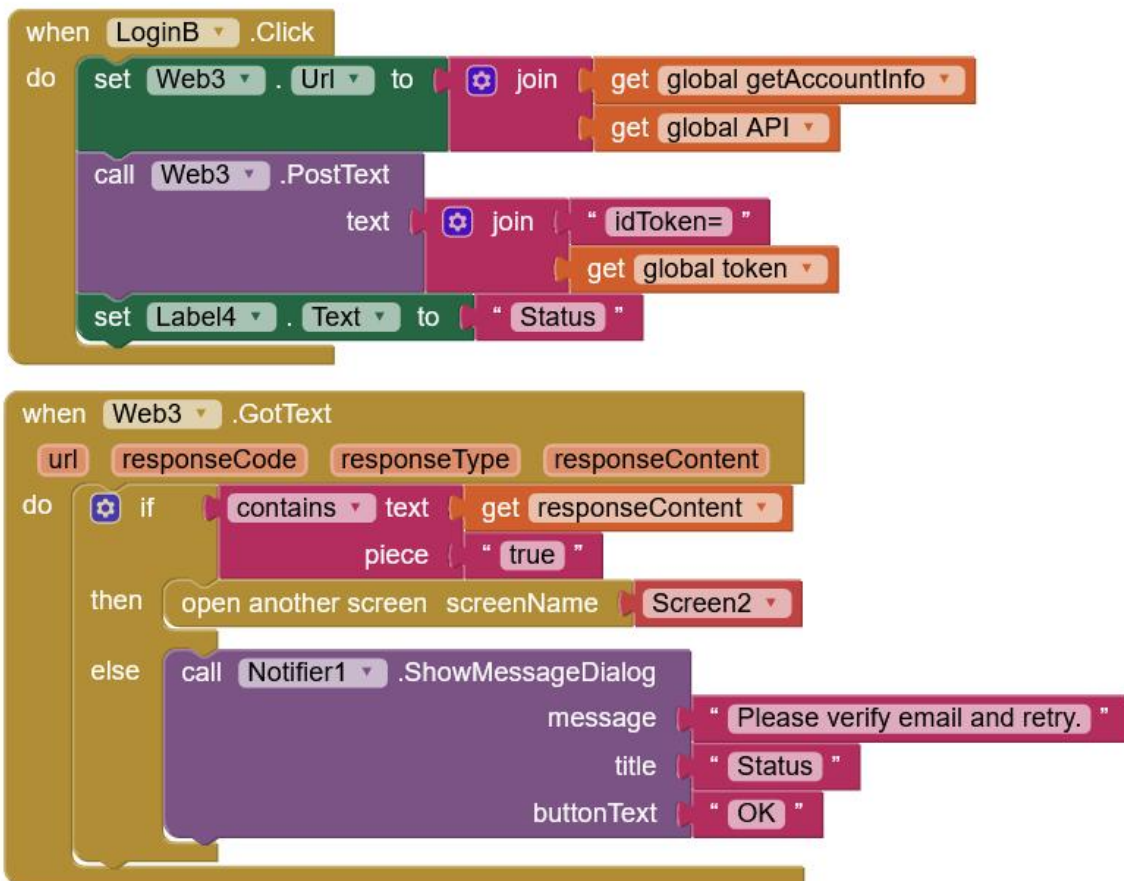
This block checks if the account is verified when Login is clicked. If verified, it opens the next page of the app.