

About our App

Intro(App Functions)

This App is designed to allow user to remotely control their smart humidifiers and monitor data about the air quality and temperature inside their homes over wi-fi

Allows user to set a timer on Humidifier, auto turn off device when desired quality is achieved.

Remote turn on device from anywhere

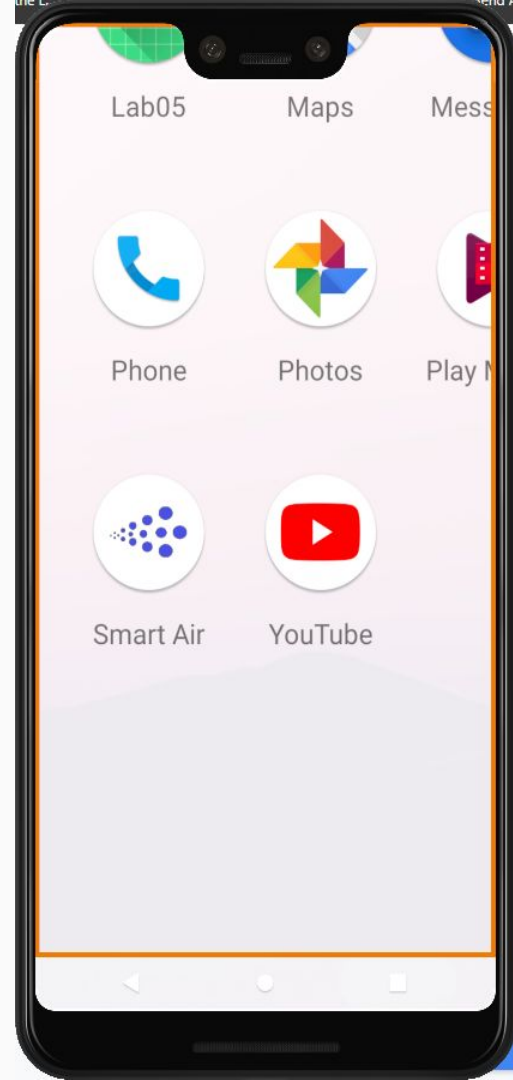
Notifies User when water level is low

Notifies User when filter are ready to be changed

Connects to multiple devices

App Icon/Logo

Here is how our app will be displayed in the app store and on mobile devices.

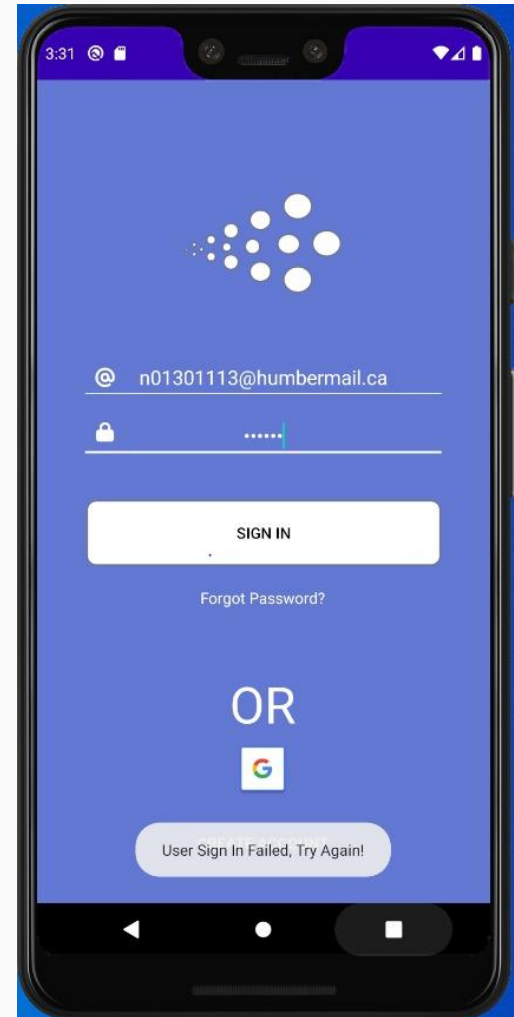
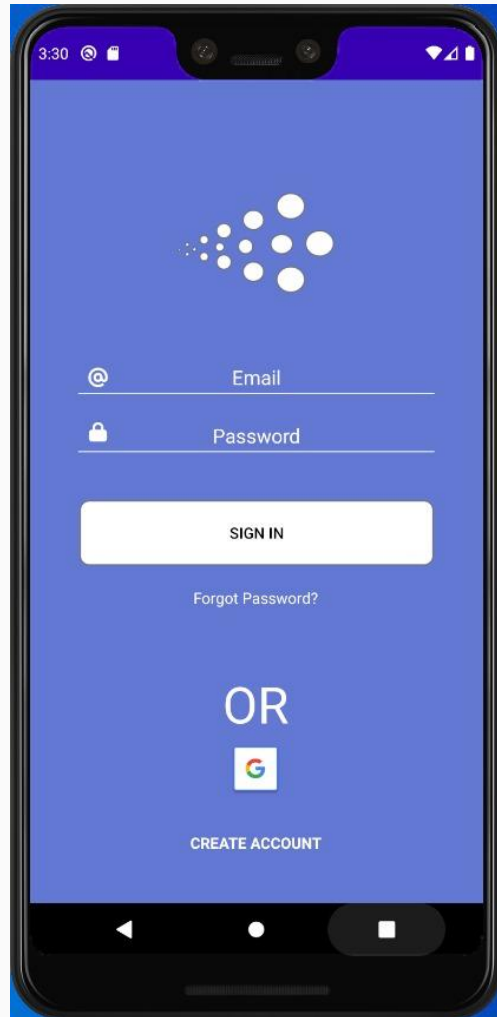


Sign in

Here the user can sign in the app.

If the user doesn't have an account or Authentication does not work a toast tells User sign in failed.

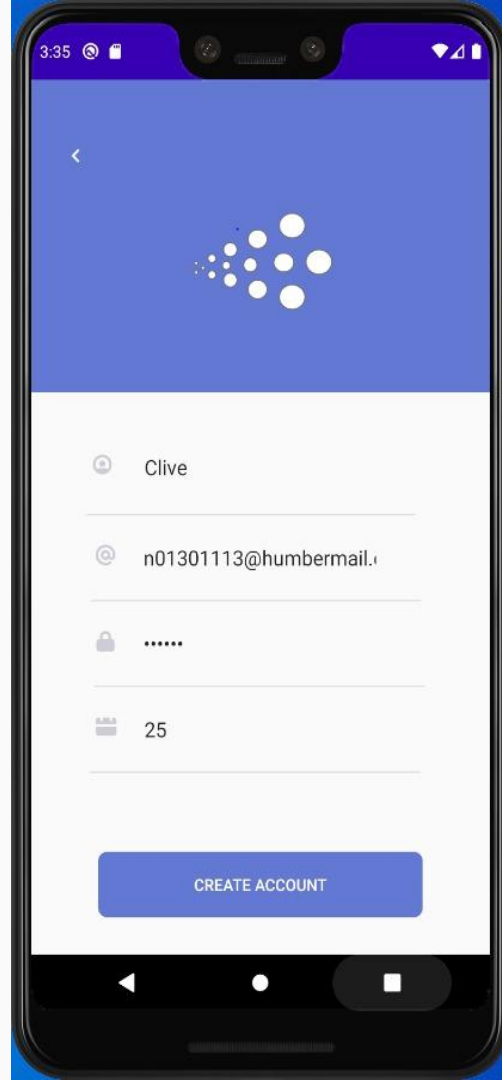
Also, if no account has yet been created for that email then they have to go to the create account page via create account.



Create Account page

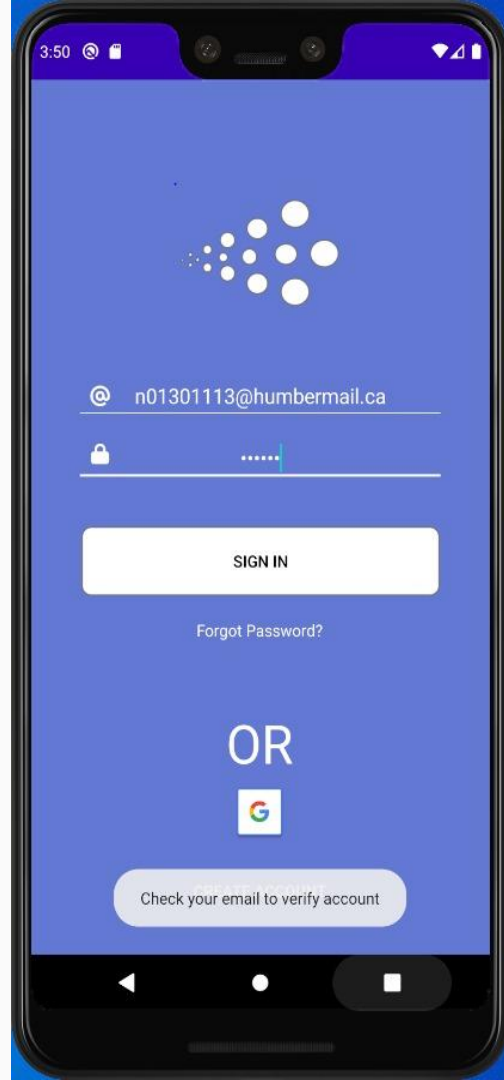
After creating account it should send you to the sign in page before entering the app, though the account is created.

Once the user has finish filling out the section the app will ask you to verify your email.



Check email to verification

Once the user click the verification link in the email their trying to create an account with, they will now be able to sign into the app.



Verified account

Part of the verification email

Verify your email for project-7

Inbox x

noreply@smartair-54180.firebaseio.co... 3

to me ▾

Hello,

Follow this link to verify your email address.

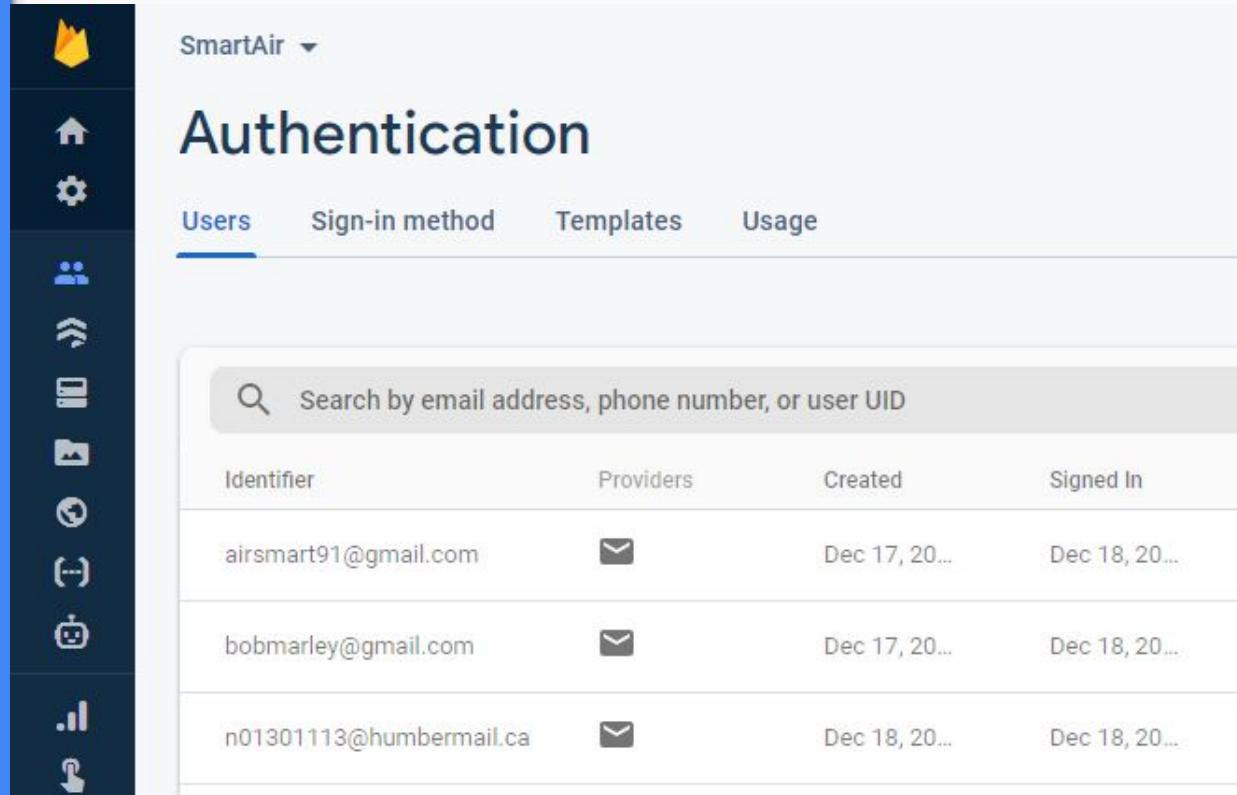
https://smartair-54180.firebaseio.com/_/auth/acti

Your email has been verified




You can now sign in with your new account

Firebase User

After creating a new account the user's information is now added to the Firebase Authentication.



The screenshot shows the Firebase Authentication console for a project named "SmartAir". The "Users" tab is selected, displaying a table of registered users. The table has four columns: Identifier, Providers, Created, and Signed In. Three users are listed, all using email as a provider. A search bar at the top of the table allows filtering by email address, phone number, or user UID.

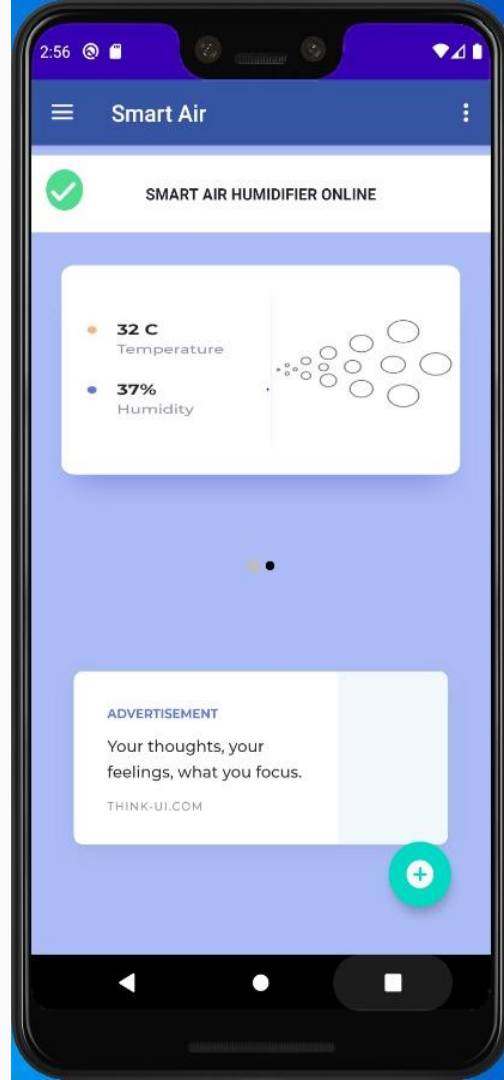
Identifier	Providers	Created	Signed In
airsmart91@gmail.com		Dec 17, 20...	Dec 18, 20...
bobmarley@gmail.com		Dec 17, 20...	Dec 18, 20...
n01301113@humbermail.ca		Dec 18, 20...	Dec 18, 20...

Home page

This is our Home page, here the user can access the menu bar in the top left of the screen and you can also access the settings menu in the top right of the screen.

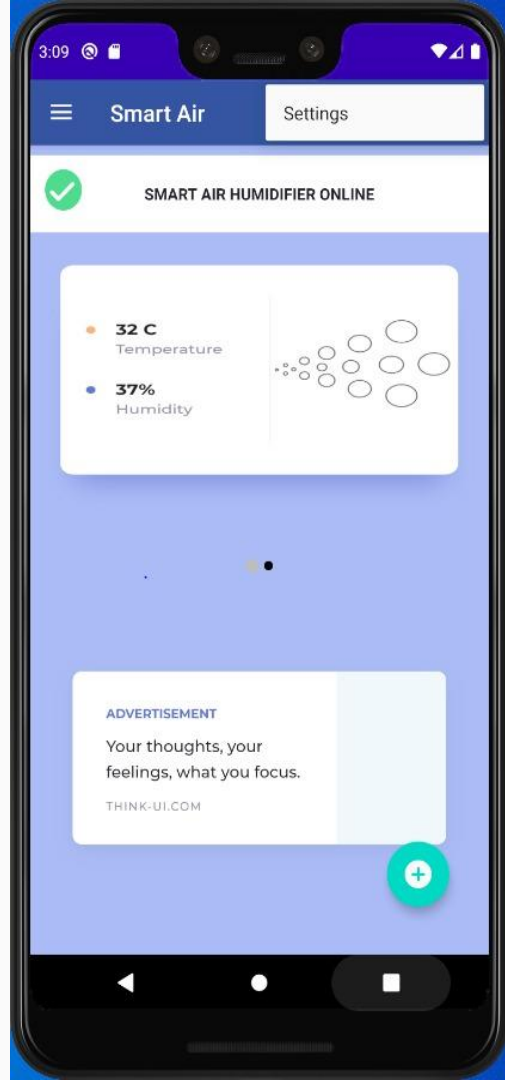
The green + button at the bottom right of the screen will take the user to the connection page.

Side Note we want to change the function of the plus button to a power button for the devices the user has connected to the app



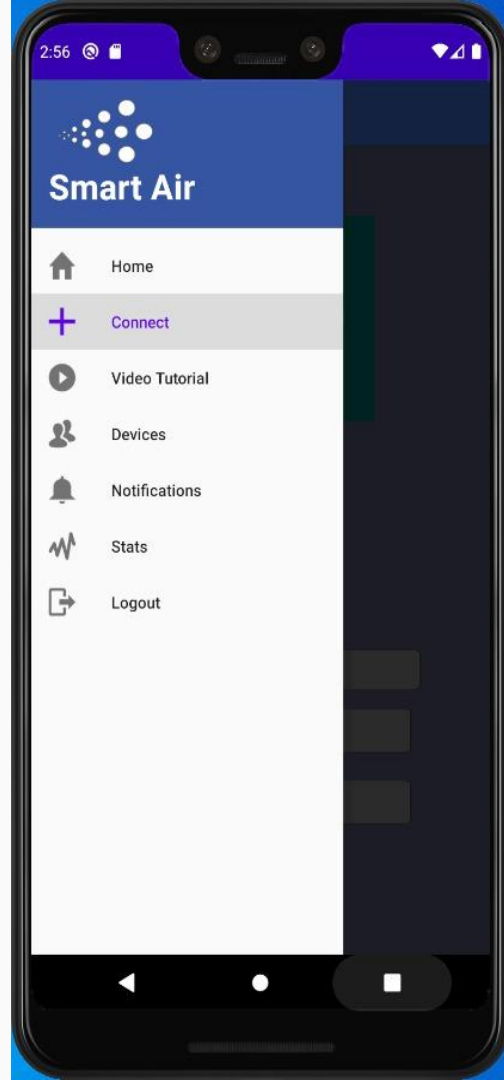
Settings menu

Top right corner setting menu opened



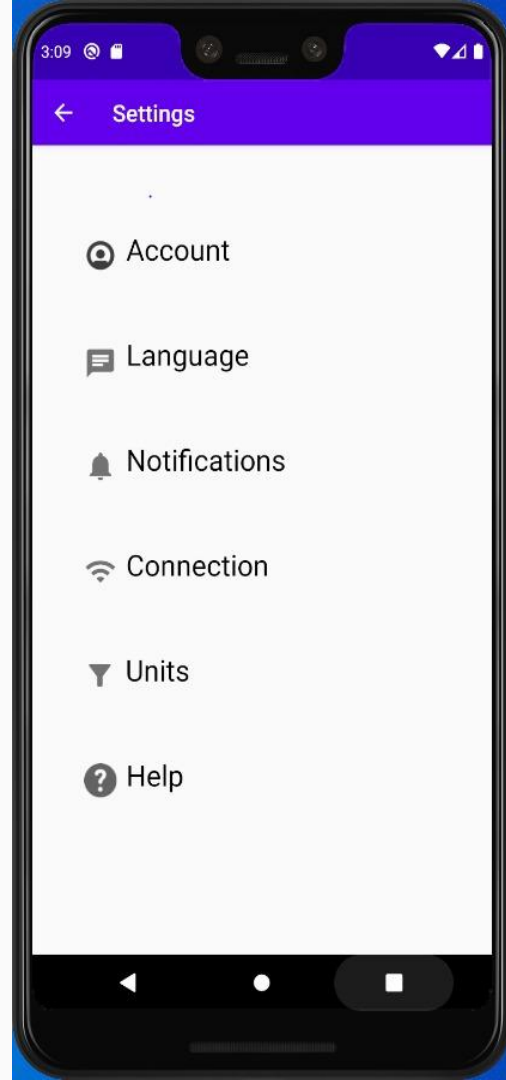
Menu

This is the apps menu bar where the user has various options to go through and take advantage for their leisure.



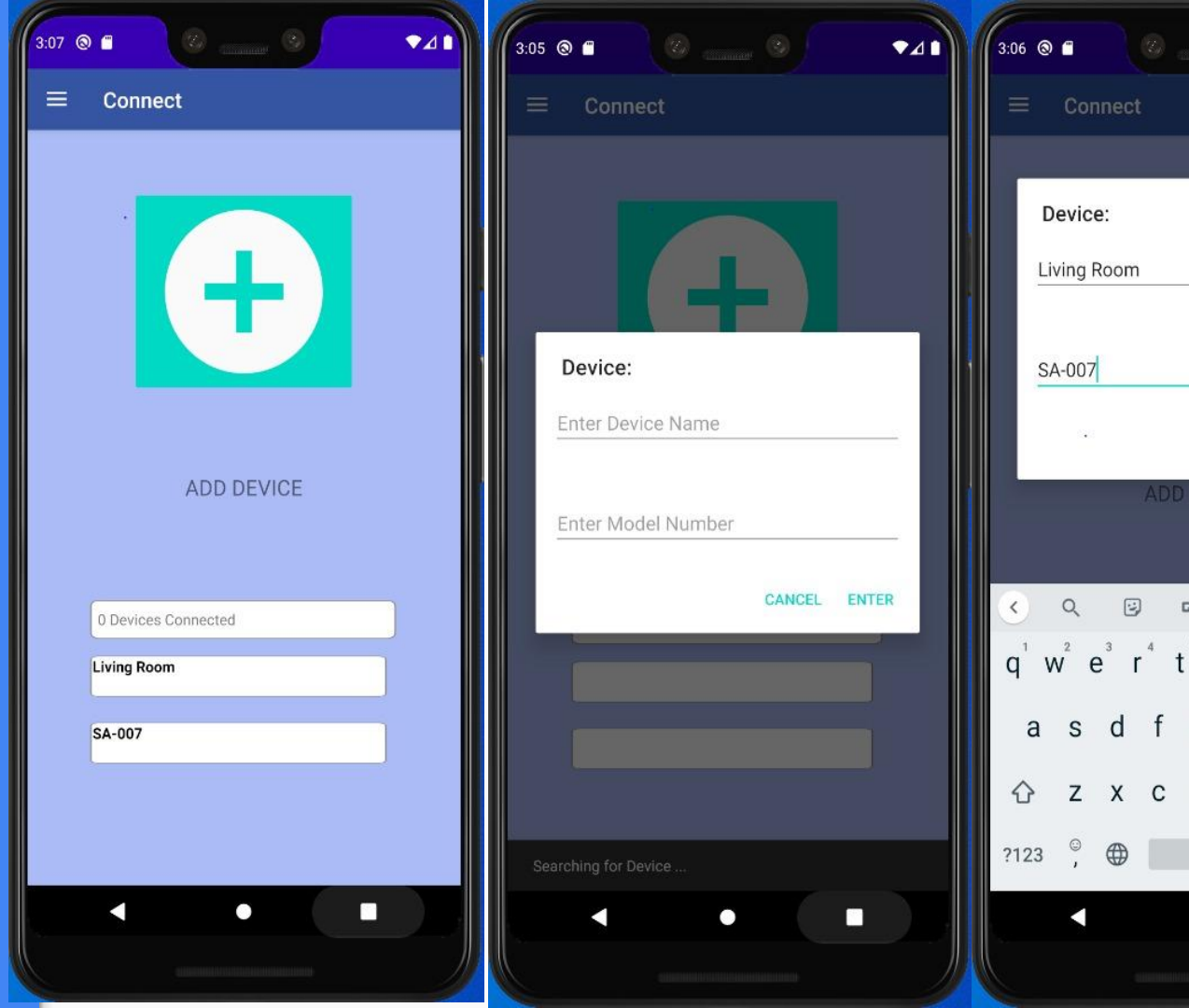
Setting page

This is the Settings menu page where the user can change and set up their app to whatever they feel comfortable to.



Connect Page

After clicking on the connect button which is the plus button in the middle of the page, the user can connect their app to their multiple humidifier devices and label them as well.



Realtime Database Storage

The name and model number of each device is also stored into the Firebase realtime database under the name "Devices".

Also stored is the username, email address, and age of each user authenticated by Firebase in another "Users" field.

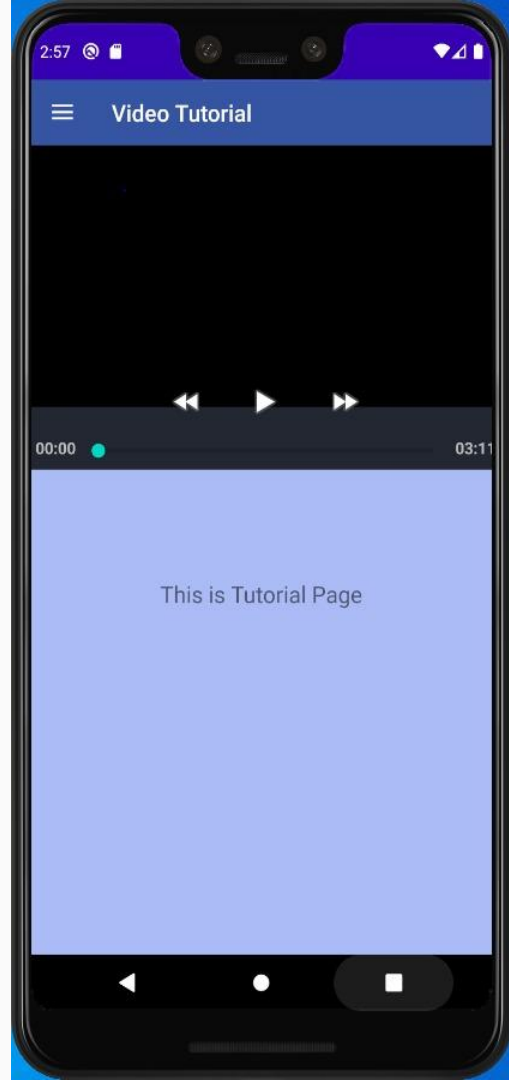


The screenshot shows the Firebase Realtime Database interface for a project named 'SmartAir'. The left sidebar contains navigation icons for Home, Settings, Users, Data, Rules, Backups, and Usage. The main panel is titled 'Realtime Database' and has tabs for 'Data', 'Rules', 'Backups', and 'Usage'. The 'Data' tab is selected, showing the URL <https://smartair-54180-default-rtdb.firebaseio.com/>. Below the URL, the database structure is displayed as a tree under the name 'smartair-54180-default-rtdb'. It shows two main nodes: 'Devices' and 'Users'. The 'Devices' node is expanded, revealing two child nodes: 'deviceModelNo' with the value 'SA-007' and 'deviceName' with the value 'Living Room'.

```
graph LR
    Root[smartair-54180-default-rtdb] --- Devices[Devices]
    Root --- Users[Users]
    Devices --- deviceModelNo["deviceModelNo: \"SA-007\""]
    Devices --- deviceName["deviceName: \"Living Room\""]
```

Video tutorial

This is our Tutorial Page where the user can learn how to navigate through the app and how to use the humidifier.



Devices

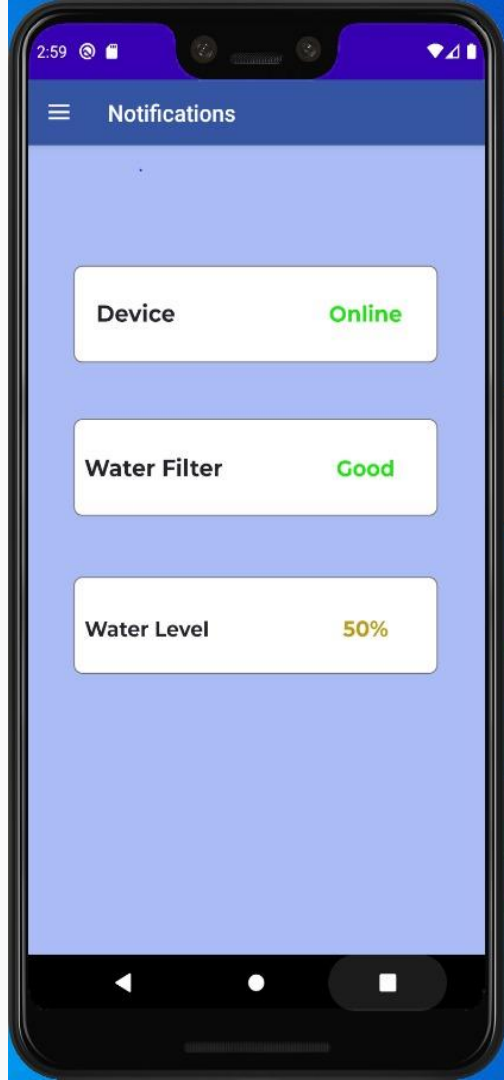
This page will show how many devices you have connected and the label you can them and the device number.

Device Information Page gets information from connect page using Shared Preference



In app notification page

On this page you can see if your device is online or offline, can see if the water filter in the humidifier is good or not and you can check to see where is the water level is at also.



Statistics page

Here on the stats page the user will be able to both humidity and temperature.

For the humidity tab you can see the percentage of the present day and another percentage to compare it from yesterday's reading. The user also can see monthly reading at the bottom.

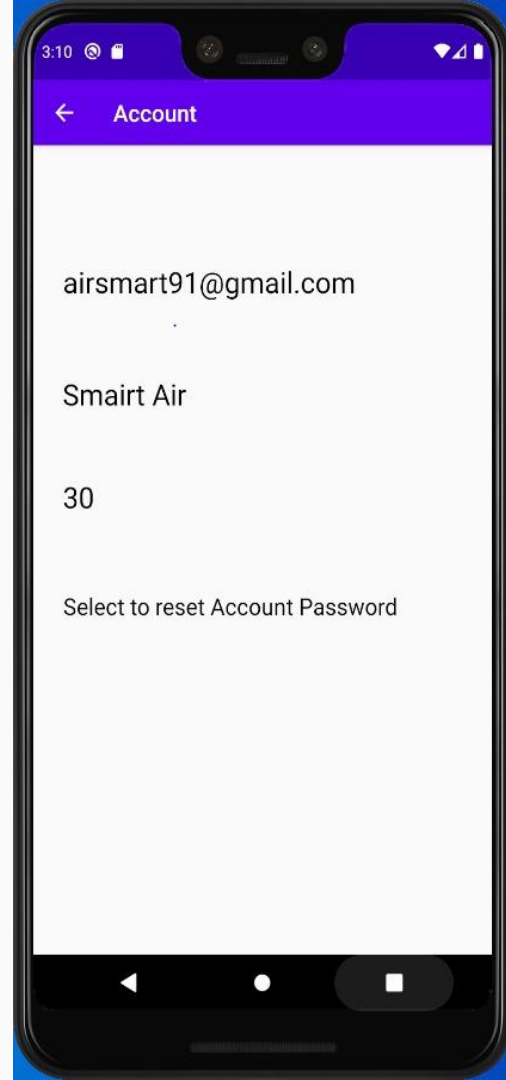
For the temperature tab the user can see what's the highest and lowest temperature through the day the area the humidifier is in by color code. Also can see the monthly readings at the bottom too.



Account

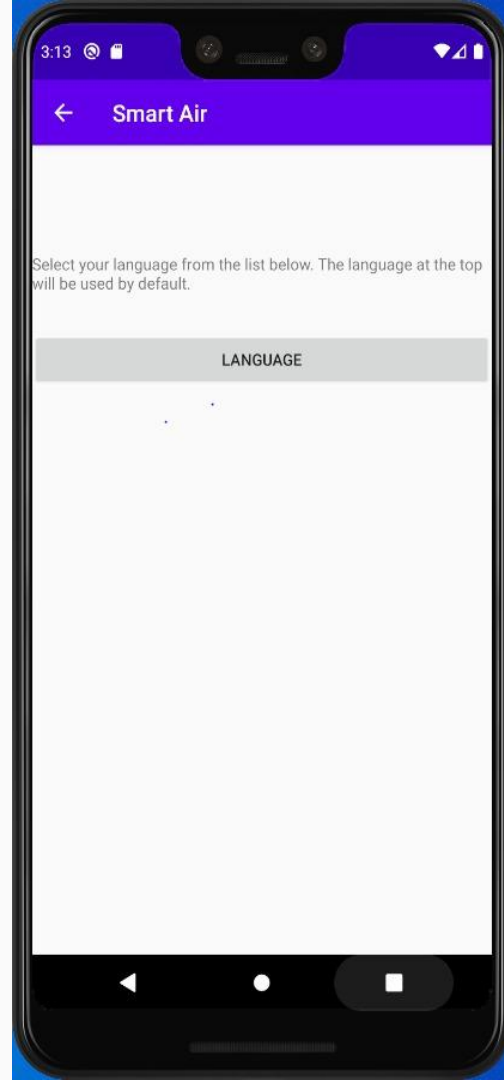
Account Settings display the current user signed into app and can change the current users account password.

Account information included are Email, Username, Age respectively and it is stored in Firebase Realtime Database.



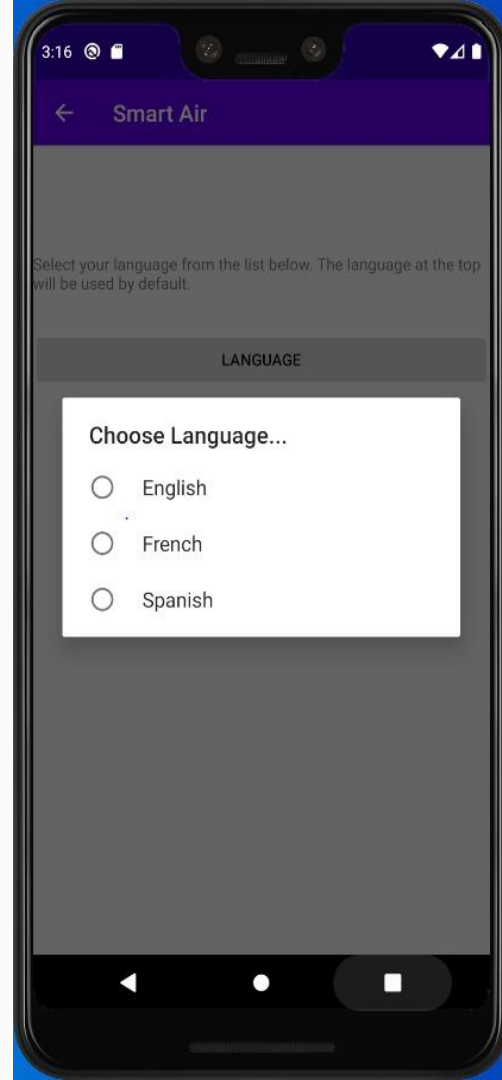
Language settings

This Language page is for users who speak a different language and want to change the settings for the app to whatever language they prefer.



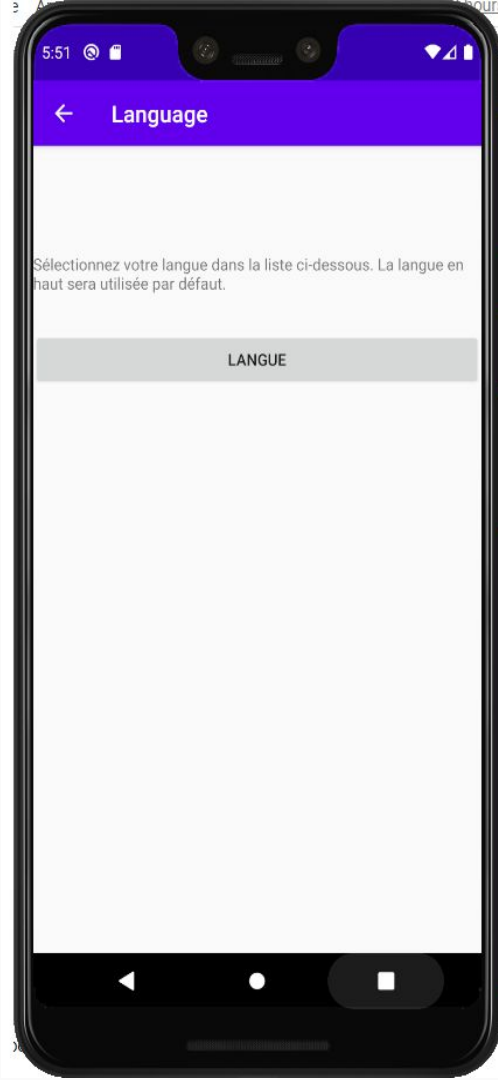
Language preference

Once they click the button the language options will pop and they can choose any one.



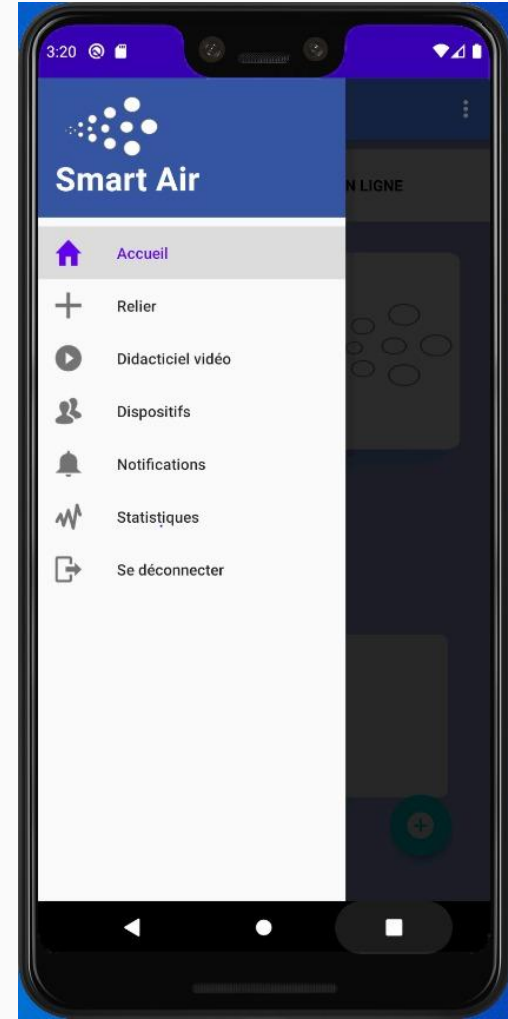
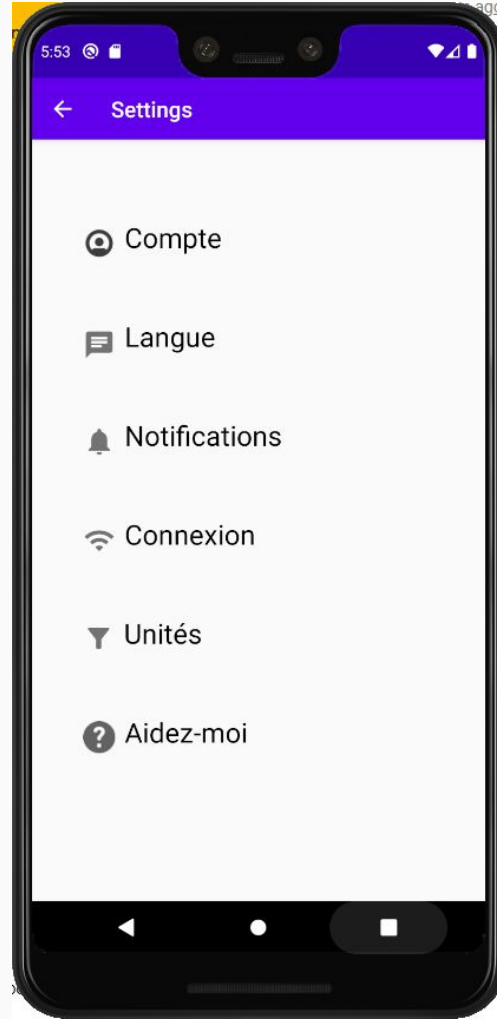
Language in French

Any string stored in the strings.xml will be translated through the whole app as long as it isn't hard coded string.



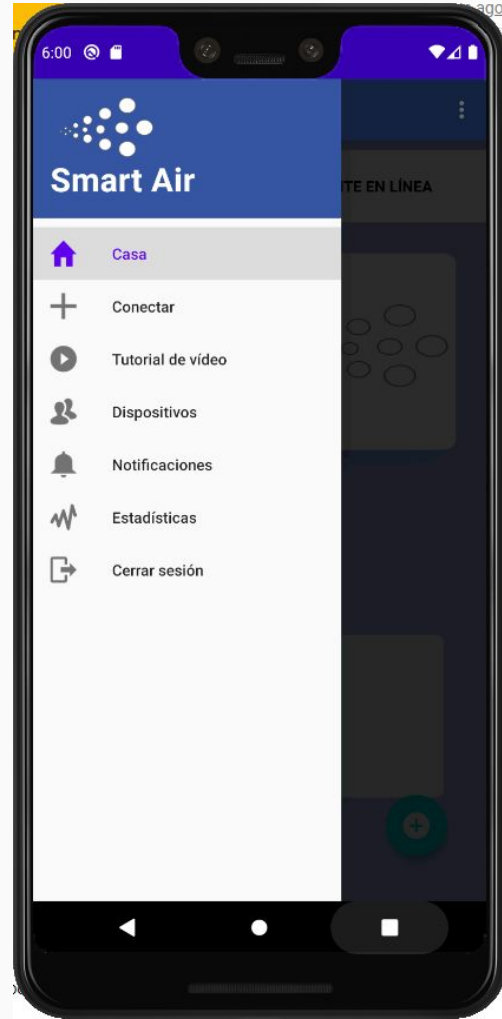
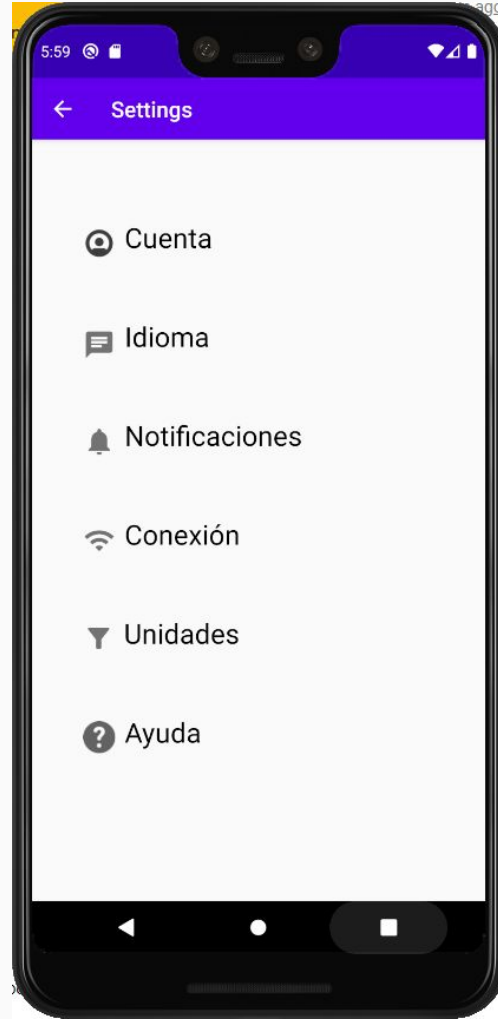
For instance the current language is set to French

Pay attention to the updated settings menu and the updated Navigation.



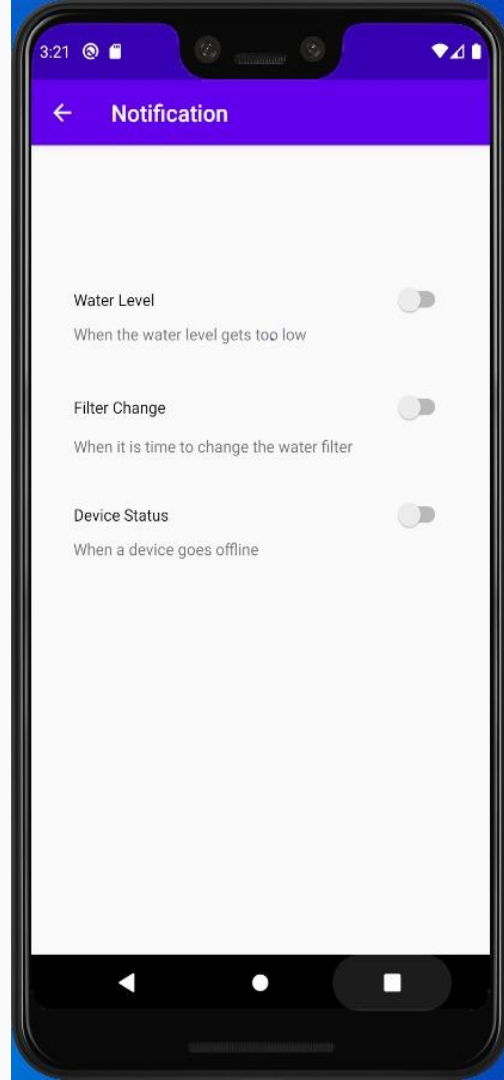
For instance the current language is set to Spanish

Pay attention to the updated settings menu and the updated Navigation.



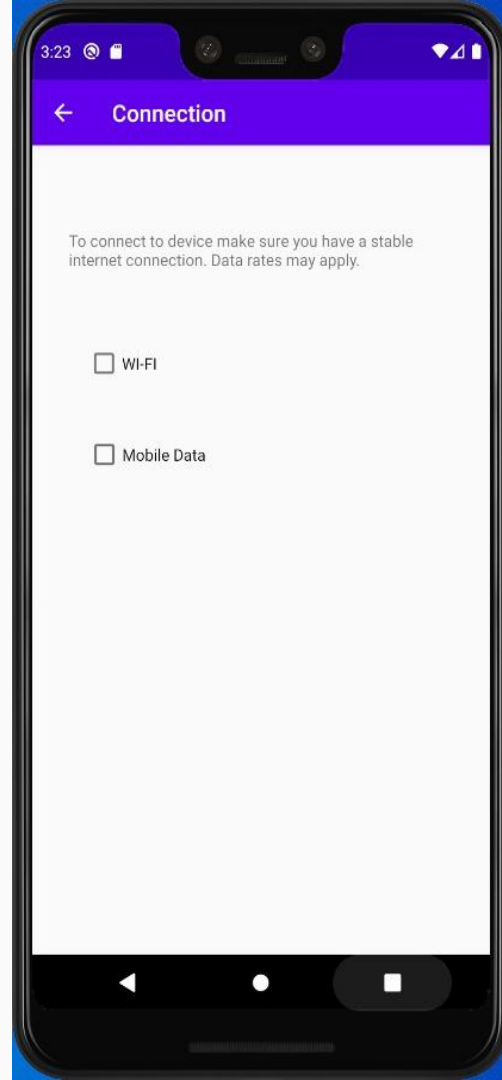
Notifications - Settings page

This page is a settings page for the notifications page if the user once to get notifications for the water levels, filter change and device status.



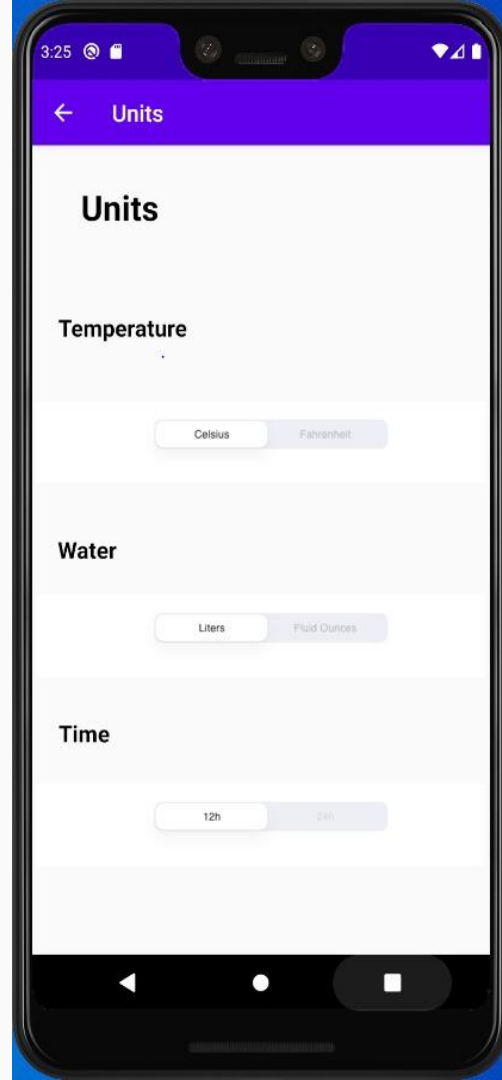
Connections

Connection settings to make sure that the app is connected to the Wifi or through the mobile Data.



Unit Settings

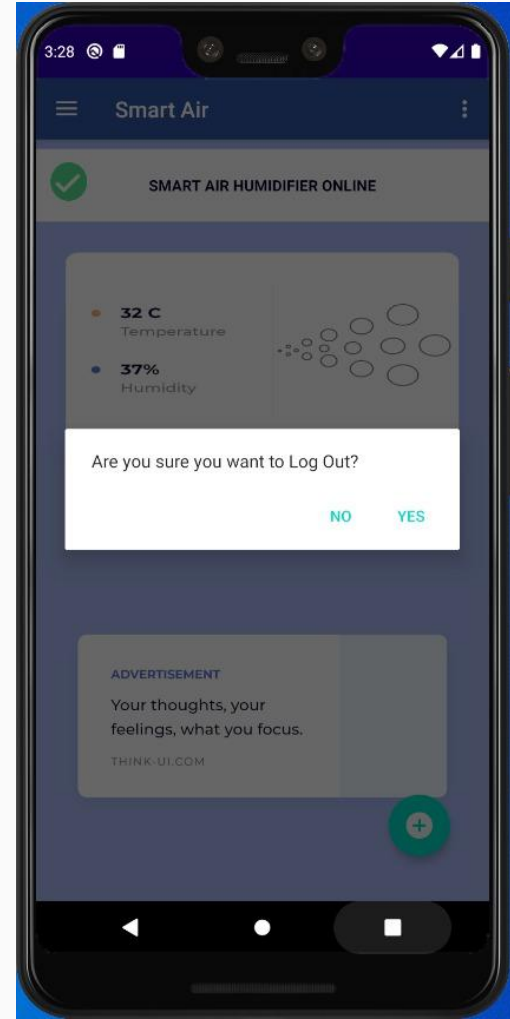
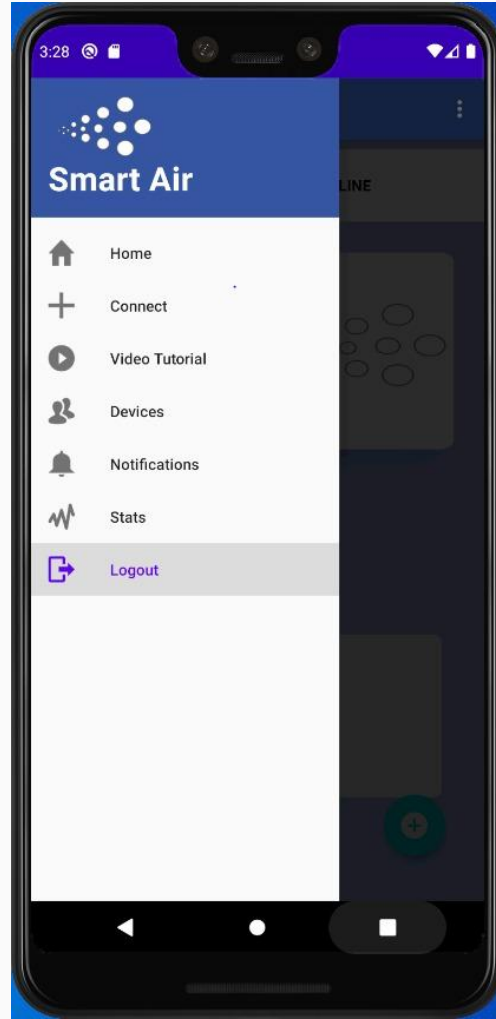
The unit settings page is for the user to change the temperature units from Celsius or Fahrenheit, water units from Liter or Ounces and time units from 12 hours to 24 hours.



Logout

On logout press a prompt will appear

Uses Firebase to log user out the app



Note that turn on and timer functions will be added later when hardware device is near completion

Thanks!

Contact us:

205 Humber college blvd

n01255613@humbermail.ca

clive.hills@humber.ca

n01264414@humbermail.ca

