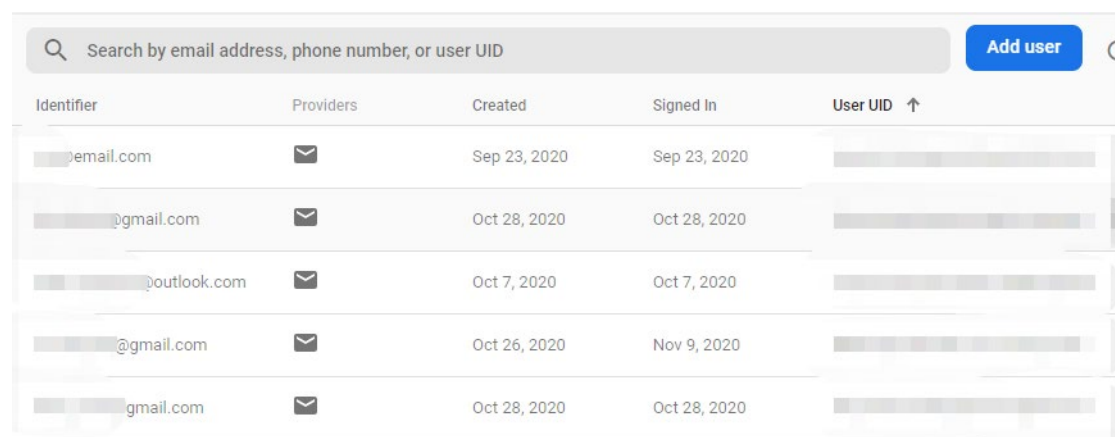# Description of database structure

This project use firebase as the database including:
1. Authentication
2. Realtime database
3. Storage

For the Authentication part, it contains all email user registered and their UID as shown below

For Realtime database sector, it stores all users' information which contains
1. About: Description of the user (User's overall introduction)
2. Intro: User's self-writhed Introduction (Including specific education backgroups…)
3. First_Name: User's first name
4. Last_Name: User's last name
5. City: City where user live in (for search purpose)
6. Country: Country where user is from (for search purpose)
7. University: University where user is from (for search purpose)
8. Faculty: User's Faculty (for search purpose)
9. Occupation: User's job
10. Id: User's UID
11. Other_id: ePortfolio the user wants to check
12. Other_ids: a list of all ePortfolio the user wants to check (searched result)

- xDToq8wzIjbHkZbbDUJFyUJwodH2
  - About: "Shengze from Melbourne"
  - City: "melbourne"
  - Country: "china"
  - Faculty: "commerce"
  - First_Name: "Shengze"
  - Intro: "Shengze from Unimelb"
  - Last_Name: "zhu"
  - Occupation: "student"
  - University: "unimelb"
  - id: "xDToq8wzIjbHkZbbDUJFyUJwodH2"
  - other_id: "mxLvUm1JE3dh4vlfgEnSy4LjlFI2"
  - other_ids
    - 0: "mxLvUm1JE3dh4vlfgEnSy4LjlFI2"
    - 1: "xDToq8wzIjbHkZbbDUJFyUJwodH2"

Storage has all user's UID as individual files each user's media (including image, pdf video) will be stored in their individual folders

	Name
☐	📁 7pOWDTel14gFlKsaWdrPp0iBGzl2/
☐	📁 AupW2YKkpndveMdVvkFRF0QjxlK2/
☐	📁 BMlrxBjQJRXadFCX1GJfl4SyfJD3/
☐	📁 CbfocFQiNEb3BZfmW3Xlwpqu9CG3/
☐	📁 DTIpKCZxArdlZppAt7FecgbAuWw1/
☐	📁 EusGqj5fdog2kS94aYsk7GhwPro1/
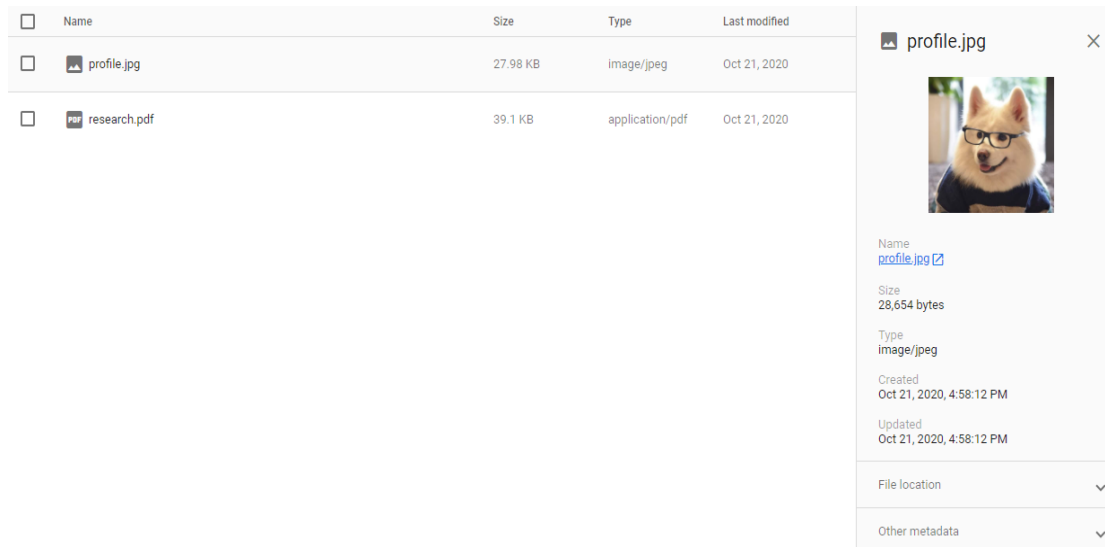
Description of key algorithms

script.js

used to log in/ out and show display log in page

1. signUp()

   Take userEmail and userPass obtained from sing up box and construct a new account using that email if the email already exist, report error.

2. login()

   Take userEmail and userPass obtained from log in box and log in that account using that email and password if fail to authentication \, report error.

3. resetPass()

   Take userEmail obtained from log in box and send reset password email to that email address if the email is invalid, report error otherwise.

4. logOut()

   Log out current user

5. verifyEmail()

   Called while construct a new account send email to that email address if the email is invalid, report error otherwise.

6. update()

   Update the user's information obtained from setting page. Report error if the form is incomplete.

7. containerShow use to switch log in and sign up box

view.js

used to view other user's ePortfolio

upload.js

used to upload files and text to construct one's ePortfolio in editing page

1. UploadButtonPressed()

   Listen to a file Upload the image file to firebase Cloud 'profile.jpg'

2. UploadpdfButtonPressed()

   Listen to a file Upload the image file to firebase Cloud ' research.pdf'

3. SubmitButtonPressed()

   Using the text obtained from textbox and stored it in firebase realtime database Intro.

4. AboutButtonPressed()

   Using the text obtained from textbox and stored it in firebase realtime database About.

search.js

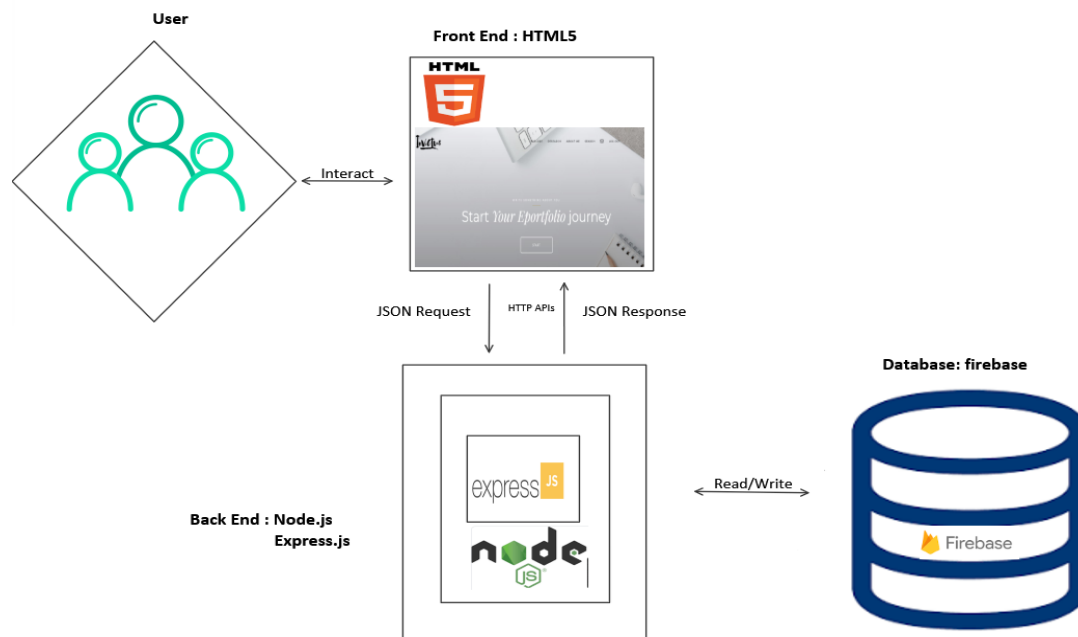used in search page to search for all users satisfied the requirement

1. SearchButtonPressed()

   Use the filter and key word obtained from search page to filter out all matched result.

2. show()

3. display searched result.

Deployment guidelines

Follow this link to deploy the project

https://medium.com/@aleemuddin13/how-to-host-static-website-on-firebase-hosting-for-free-9de8917bebf2

Description of key classes and the application's layers

Main class

1. Start page
   The index of the project

2. Log in page
   Page used to log in, contains a log in box which has multiply functions

3. Account Setting page
   A user first enter main page will be redirected to the account setting page where the user can enter their information

4. Main page
   Main page of the ePortfolio system contains a navigation bar and templet to guide user

5. Edit page
   User can use edit page to create or modify their e portfolio

6. ePortfolio page
   User's own page of ePortfolio

7. Search page
   A page used to search other user by name, university, city, country…

StrartPage

has account

yes

no

Sign up

Valid email

yes

no

reset password

Valid Account

Log in

no

yes

Approved

no

yes

Send reset email

click contact

MainPage

Contact page

sending suggestion

Invictus team receive message

click search

click about me

click create

Search page

ePortfolio page

update

Editing ePortfolio

Search by attribute

not exist /show

exist / show

Alert no result found message

update Search page

click searched user

other's ePortfolio