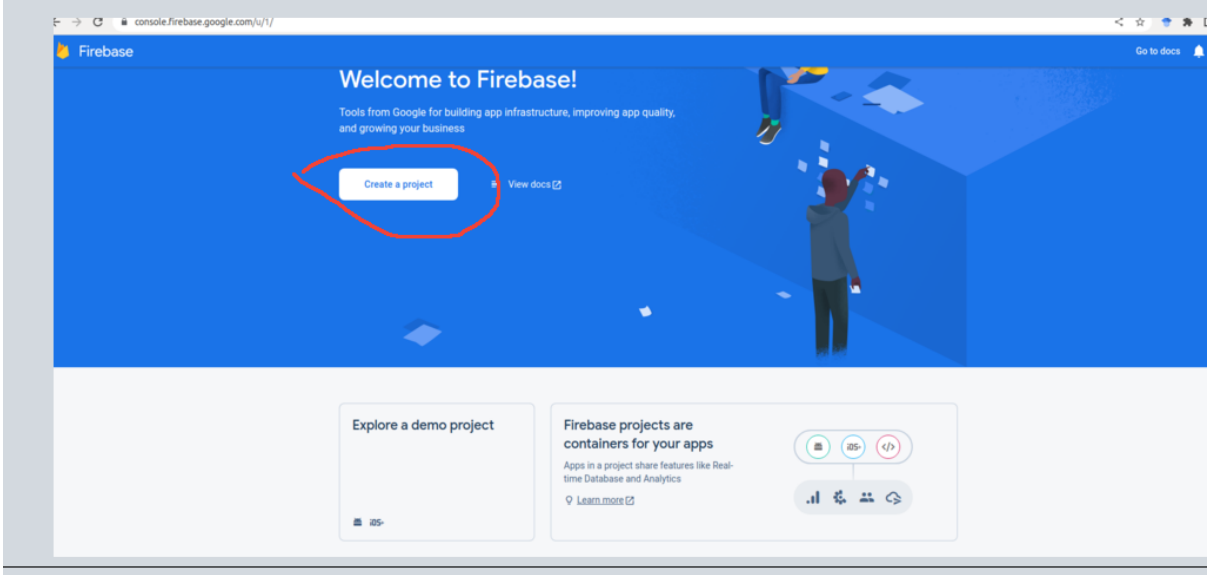
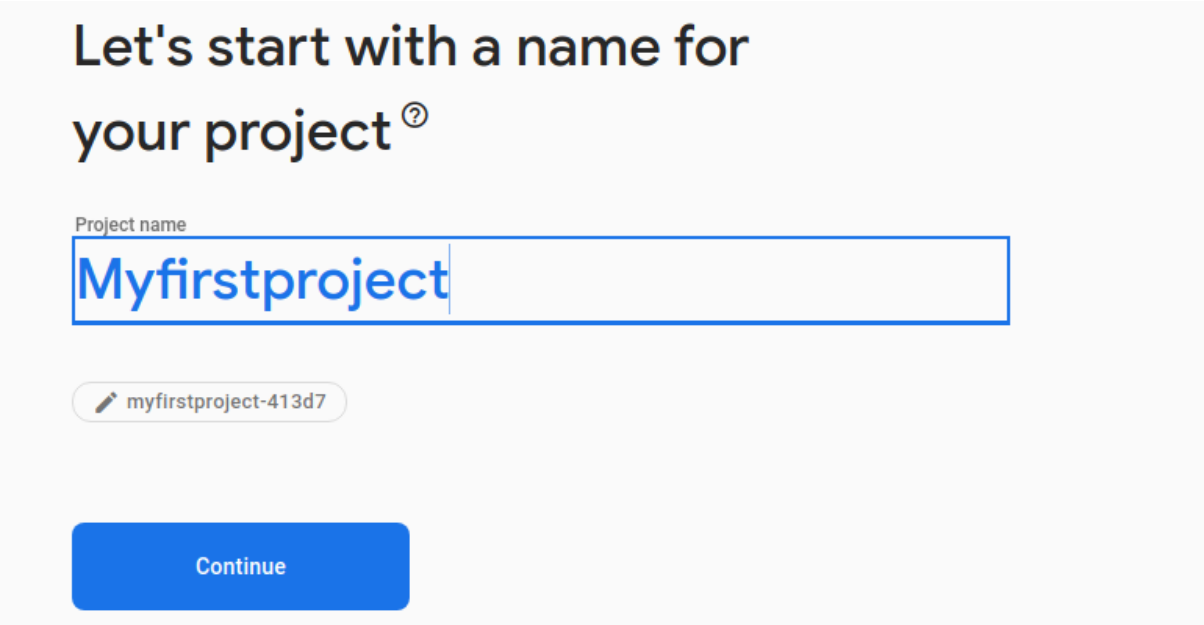
Connecting Python to Firebase

Go to firebase website following this link https://console.firebase.google.com/u/1/

Next create project as follows

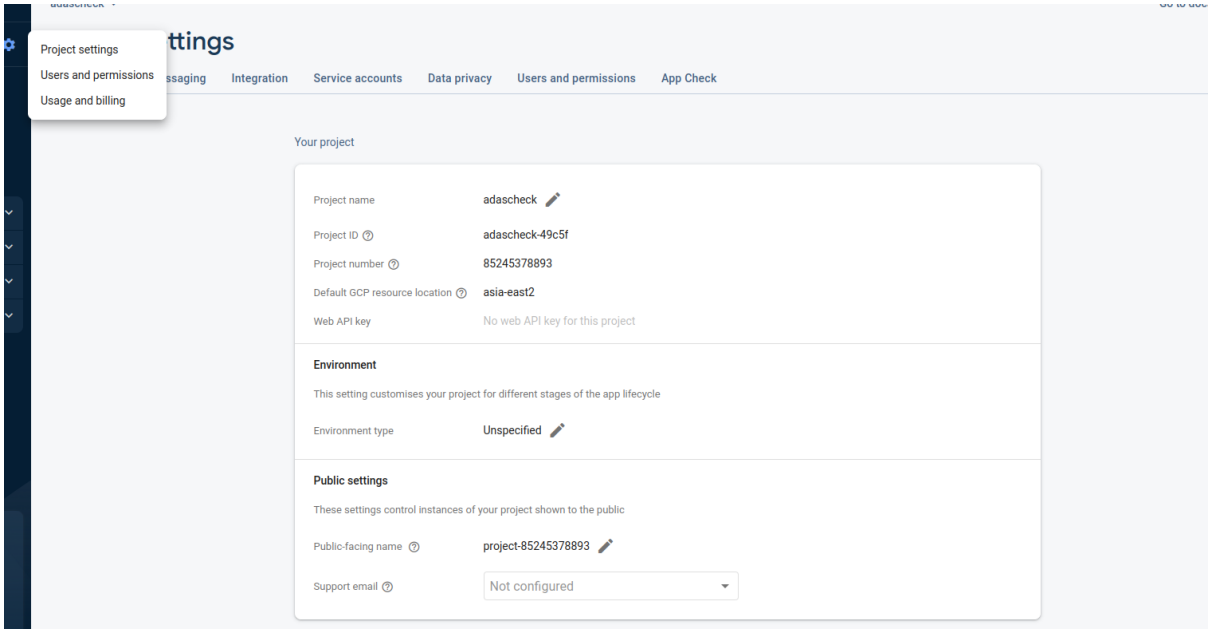


Next name your Project

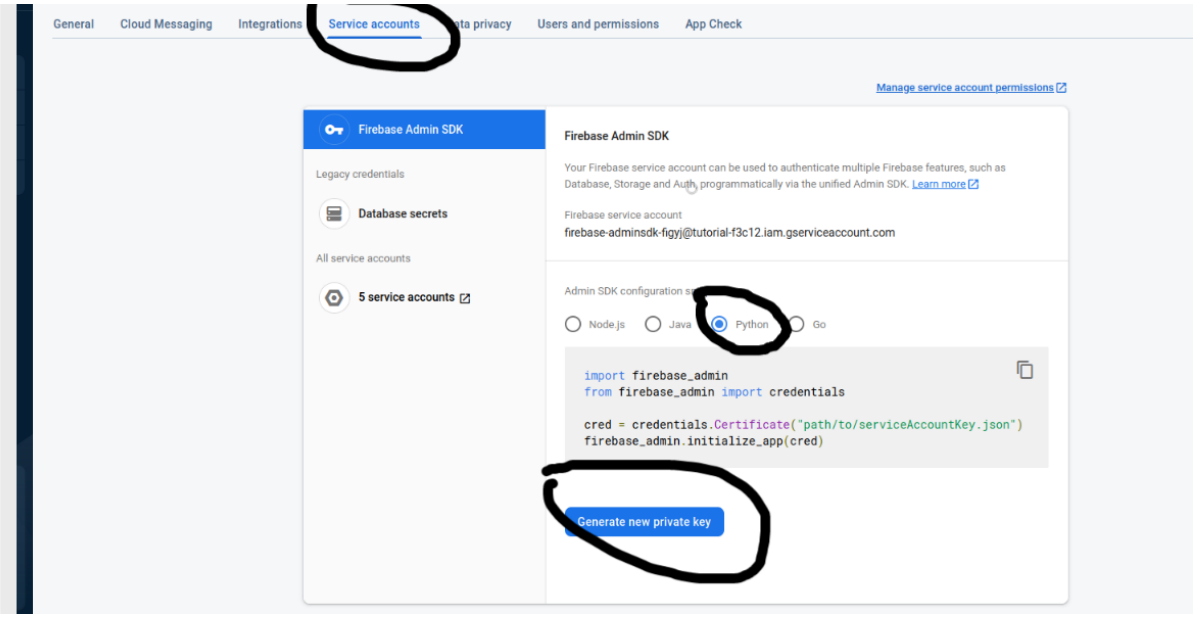


Next pages are self explanatory

Once your project is created go to project setting

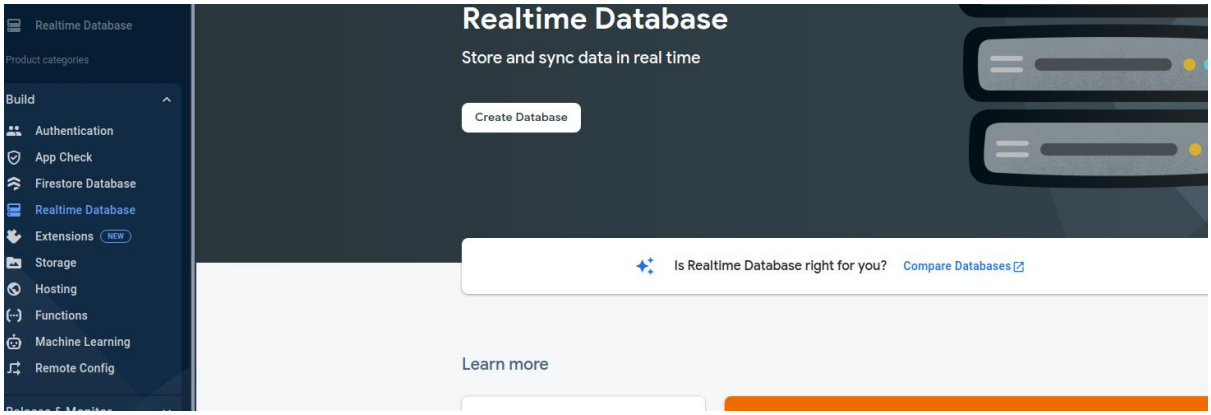


select



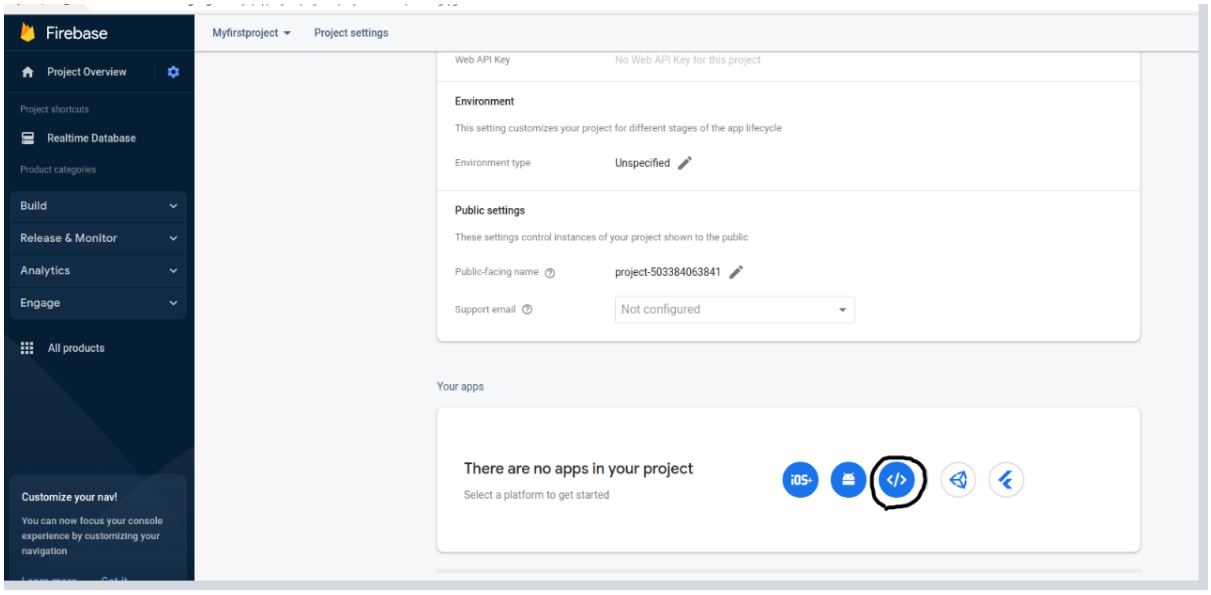
now a json file with credentials will be downloaded Rename it as serviceAccount.json

Next go to real time database and create database

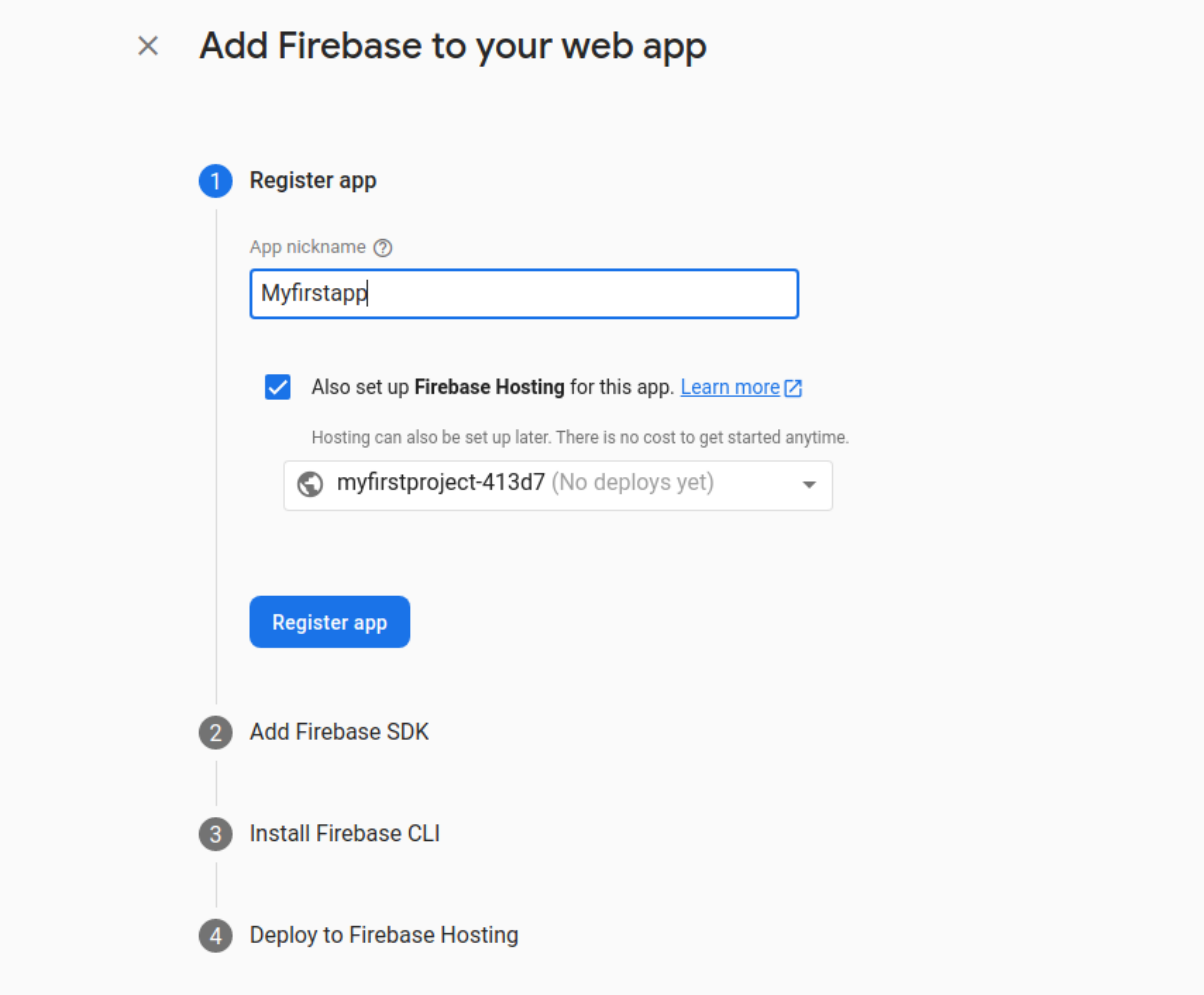


select in test mode

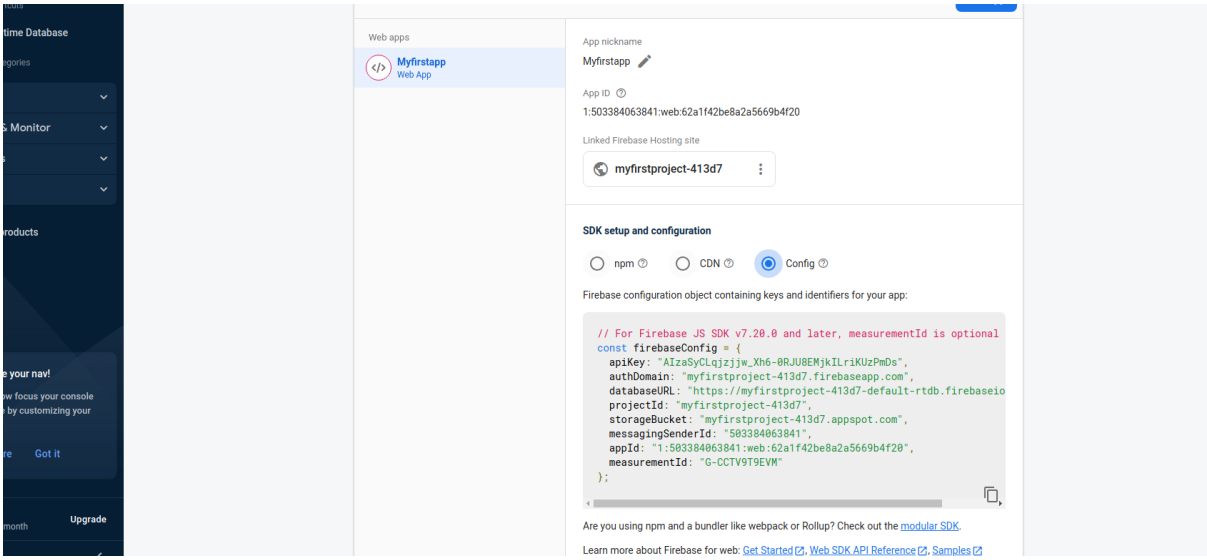
Now we will add an app to our project. I have selected a web project



Next give a name

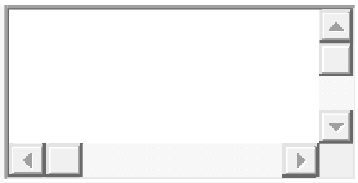


Import libraries
Once you have created the project the following content



Make the following dictionary. For service Account Add the path to json file which you downloaded earlier. and database url from real time database which we created earlier.

In [1]:

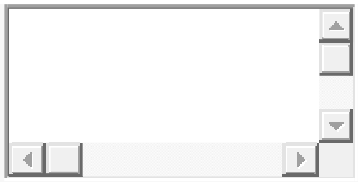


```
config = {
  "apiKey": "AIzaSyCLqjzjjw_Xh6-0RJU8EMjkILriKUzPmDs",
  "authDomain": "myfirstproject-413d7.firebaseapp.com",
  "projectId": "myfirstproject-413d7",
  "storageBucket": "myfirstproject-413d7.appspot.com",
  "messagingSenderId": "503384063841",
  "appId": "1:503384063841:web:62a1f42be8a2a5669b4f20",
  "measurementId": "G-CCTV9T9EVM",
  "serviceAccount" : "myfirst.json",
  "databaseURL": "https://myfirstproject-413d7-default-rtdb.firebaseio.com/"


}
```

Importing libraries

In [2]:



```
import firebase_admin
from firebase_admin import credentials
from firebase_admin import db
import pyrebase
from firebase_admin import credentials,storage
```

In [3]:

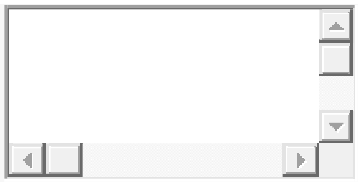
```
firebase = pyrebase.initialize_app(config)
cred = credentials.Certificate('myfirst.json')
```

In [10]:

```
db =  firebase.database()
```

```
### This is the dictionary i want to send
data = {
  "name": "imtiaz",
  "age":25
}
```

In [11]:

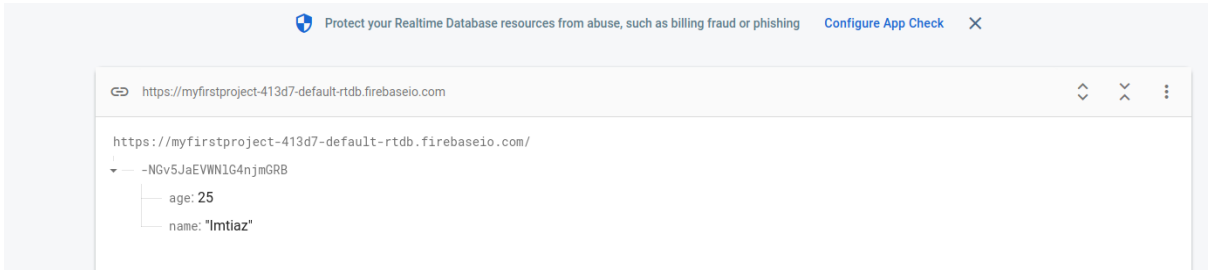


```
db.child("").push(data)
```

Out[11]:

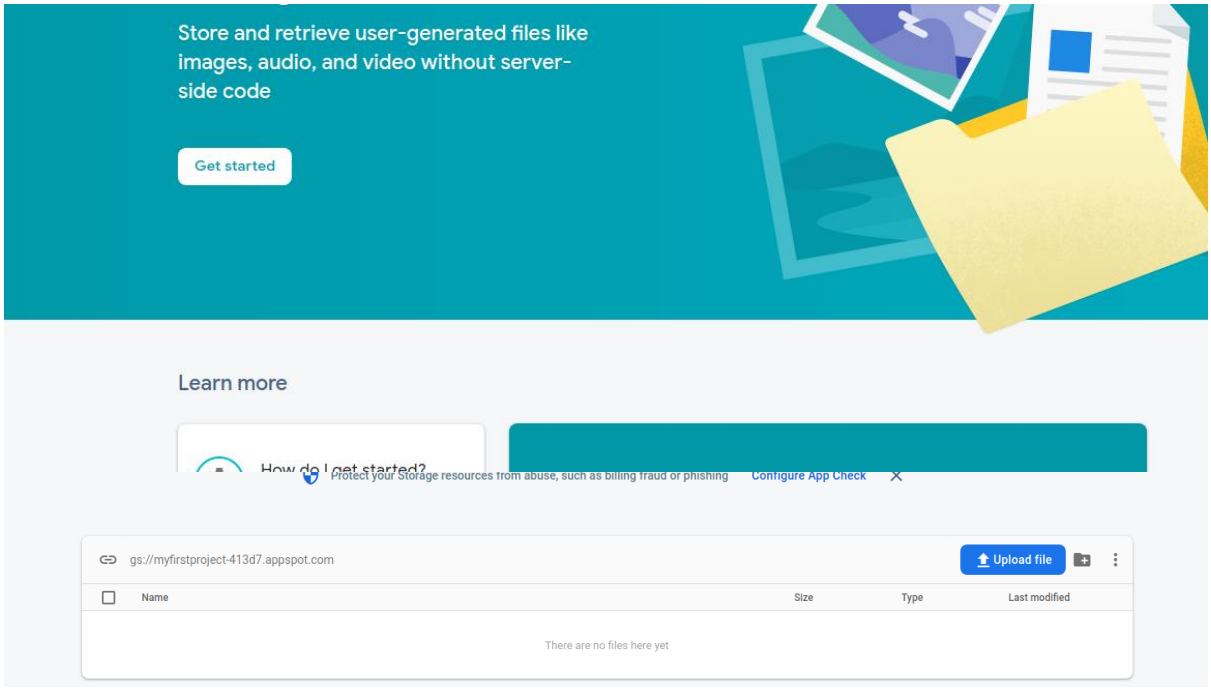
```
{'name': '-NKTH3WkBC-ehYnXZrlk'}
```

We can see Uploaded data on Firebase server database



Sending Images on firebase storage

Go to firebase web and create storage



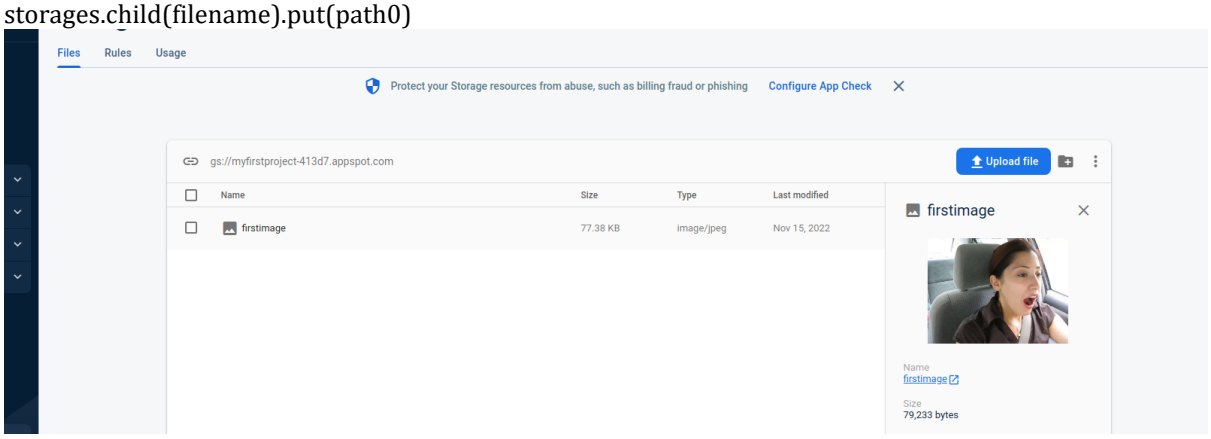
In [12]:

```
```

To send image locate the image path and assign it to path0 as follows.Filename refers to name of file in the
 # Cloud storage

```
path0="./2.jpg"
filename="imtiaz"


storages = firebase.storage()
storages.child(filename).put(path0)
```



In [ ]:

```
```

Retrieving Data

In [8]:

```
```

```
user=db.child("").get()
print(user.val())
```

```
OrderedDict([('-NGv5JaEVWNlG4njmGRB', {'age': 25, 'name': 'Imtiaz'}), ('-NG
v5zrRRgjEtWfH5OA-', {'age': 25, 'name': 'Imtiaz'}), ('-NGv7AZhn6JdRLoXdSky'
, {'age': 25, 'name': 'Imtiaz'}), ('-NKTG884I9T_2WUQzeI0', {'age': 25, 'nam
e': 'Imtiaz'})])
```

In [ ]: