

```

import pyrebase
import time
import RPi.GPIO as GPIO

x = 0
y = 0
z = 0
while y < 1:
    GPIO.setwarnings(False)
    config = {
        "apiKey": "x",
        "authDomain": "x",
        "databaseURL": "x",
        "storageBucket": "x",
        "serviceAccount": "x"
    }

    firebase = pyrebase.initialize_app(config)

    """
    initialize app with config
    """
    #firebase = pyrebase.initialize_app(config)

    """
    authenticate a user
    """
    #auth = firebase.auth()
    #user = auth.sign_in_with_email_and_password("youremail@domain.com",
    "youStrongPassword")

    auth = firebase.auth()
    #authenticate a user
    user = auth.sign_in_with_email_and_password("x", "x")

    db = firebase.database()

    """
    Create using push
    """
    data = { "name" : "Joe Tilsed" }

```

```
archer = {"name": "Sterling Archer", "agency": "Figgis Agency"}
db.child("agents").push(archer, user['idToken'])
```

```
pam = {"name": "Pam Poovey", "agency": "Figgis Agency"}
```

```
while x < 1:
```

```
    GPIO.setmode(GPIO.BCM)
```

```
    TRIG = 18
```

```
    ECHO = 24
```

```
    GPIO.setup(TRIG, GPIO.OUT)
```

```
    GPIO.setup(ECHO, GPIO.IN)
```

```
    GPIO.output(TRIG, True)
```

```
    time.sleep(0.0001)
```

```
    GPIO.output(TRIG, False)
```

```
    while GPIO.input(ECHO) == False:
```

```
        start = time.time()
```

```
    while GPIO.input(ECHO) == True:
```

```
        end = time.time()
```

```
    sig_time = end-start
```

```
    distance = sig_time / 0.000148
```

```
    #print('d:{0} in'.format(distance))
```

```
    GPIO.cleanup()
```

```
    if distance < 9:
```

```
        if distance > 1:
```

```
            z = z+1
```

```
            print (z)
```

```
            db.child("today").push (data, user['idToken']),
```

```
            #db.child("month").push (pam, user['idToken']),
```

```
            db.child("year").push (pam, user['idToken']),
```

```
            db.child("week").push (pam, user['idToken'])
```

```
        else:
```

```
            db.child("month").push (pam, user['idToken']),
```

```
'''
```

```
    Create using set
```

```
'''
```

```

    lana = {"name": "Lana Kane", "agency": "Figgis Agency"}
    db.child("agents").child("Lana").set(lana, user['idToken'])

    kreiger = {"name": "Algernop Kreiger", "agency": "Figgis Agency"}
    db.child("staff").child("Krieger").set(kreiger, user['idToken'])

'''
    Get all users
'''
all_agents = db.child("agents").get(user['idToken'])
#print "all_agents: ", all_agents

'''
    Get specific value from object
'''
lana_data = db.child("agents").child("Lana").get(user['idToken']).val()
#print "lana_data: ", lana_data["agency"]

'''
    Update existing user
'''
db.child("staff").child("Lana").update({"name": "Lana Anthony Kaee"},
user['idToken'])

'''
    Delete entire object
'''
##db.child("staff").remove(user['idToken'])

'''
    Delete specific value from object
'''
##db.child("agents").child("Lana").remove(user['idToken'])

```