

Home Security

Project Exhibition -1
Group - 77

Presented To:-
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Team Members

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Building an android application

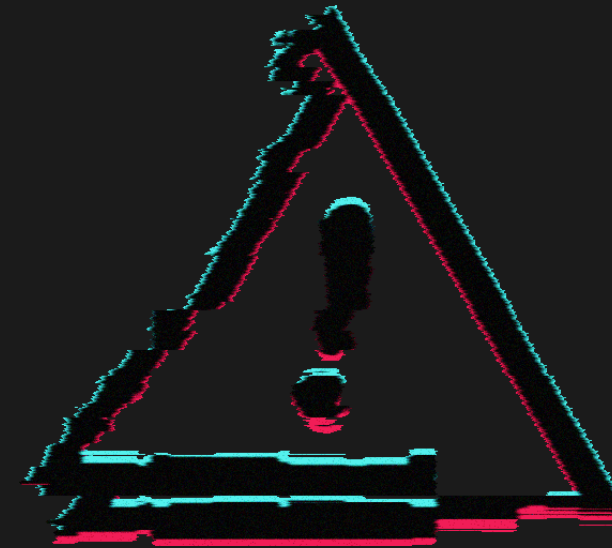


...

What the app does?



Gives notification
to the user if
someone known
arrives at his oor.



Warns the user if
someone unknown
arrives at the door.



Works remotely.
i.i.e. user receives
notification
anywhere in the
world.

Technologies Used



ANDROID STUDIO

Android Studio is the official integrated development environment for Google's Android operating system, built on JetBrains' IntelliJ IDEA software and designed specifically for Android development. It is available for download on Windows, macOS and Linux based operating systems



FIREBASE

Firebase is a set of hosting services for any type of application. It offers NoSQL and real-time hosting of databases, content, social authentication, and notifications, or services, such as a real-time communication server.

Objective

•	Our idea is to send a push notification request from our python code and to receive it in our android app.
•	We are using firebase FCM for this purpose.

... Code Section

In python file:-

```
13 # Content of notification to be sent as alert
14 headers = {
15     'Content-Type': 'application/json',
16     'Authorization': 'key=' + serverToken,
17 }
18 body = {
19     'notification': {'title': 'Alert',
20                     'body': 'Unknown person detected...'},
21     'to':
22         deviceToken,
23     'priority': 'high',
24 }
25
```




```
body1 = {  
    'notification': {'title': 'Alert',  
                    'body': (name)+' arrived..'},  
    'to':  
        deviceToken,  
        'priority': 'high',  
}
```

If unknown person arrives content of body will be sent as notification.

```
response = requests.post("https://fcm.googleapis.com/fcm/send", headers = headers, data=json.dumps(body))
```

If known person arrives content of body1 will be sent as notification.

```
response1 = requests.post("https://fcm.googleapis.com/fcm/send", headers = headers, data=json.dumps(body1))
```




Output



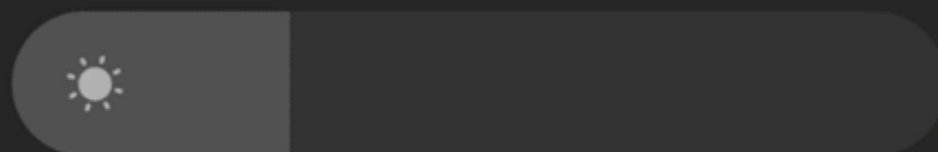
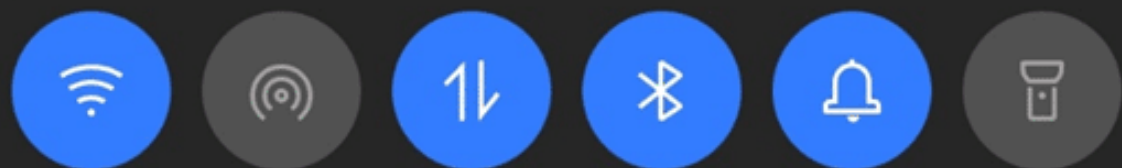
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10:39

21.0 KB/s

Sun, 25 Sep



Alerting notifications

HomeSecurity

now

Alert

HARSH arrived..

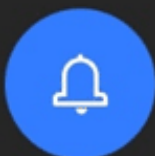
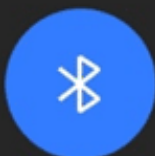
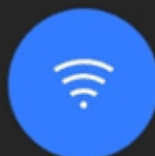
Try the new cross-platform PowerShell <https://aka.ms/pscore6>

```
PS C:\Users\asus\Desktop\PE2> python -u "c:\Users\asus\Desktop\pe\Home security\projectExhibition.py"
['aneesh.png', 'arpit.png', 'Harsh.png', 'pradeep.png']
200
{'multicast_id': 86044440381832812043, 'success': 0, 'failure': 1, 'canonical_ids': 0, 'results': [{'error': 'NotRegistered'}]}
HARSH
0.42532982437785194
HARSH
0.40328003472996393
```

10:39

Sun, 25 Sep

21.0 KB/S



A

Alerting notifications



HomeSecurity



now



Alert

HARSH arrived..

Try the new cross-platform PowerShell <https://aka.ms/pscore6>

```
PS C:\Users\asus\Desktop\PE2> python -u "c:\Users\asus\Desktop\pe\Home security\projectExhibition.py"
```

```
['aneesh.png', 'arpit.png', 'Harsh.png', 'pradeep.png']
```

```
Unknown person is waiting at door
```

```
200
```

```
{'multicast_id': 1617310053258789685, 'success': 0, 'failure': 1, 'canonical_ids': 0, 'results': [{'error': 'NotRegistered'}]}
```

```
Do you know this person? y/n
```

```
|
```




Thank you!

