

M S RAMAIAH INSTITUTE OF TECHNOLOGY

(Autonomous Institute Affiliated to VTU)

Department of Information Science and Engineering



Jan-May 2017

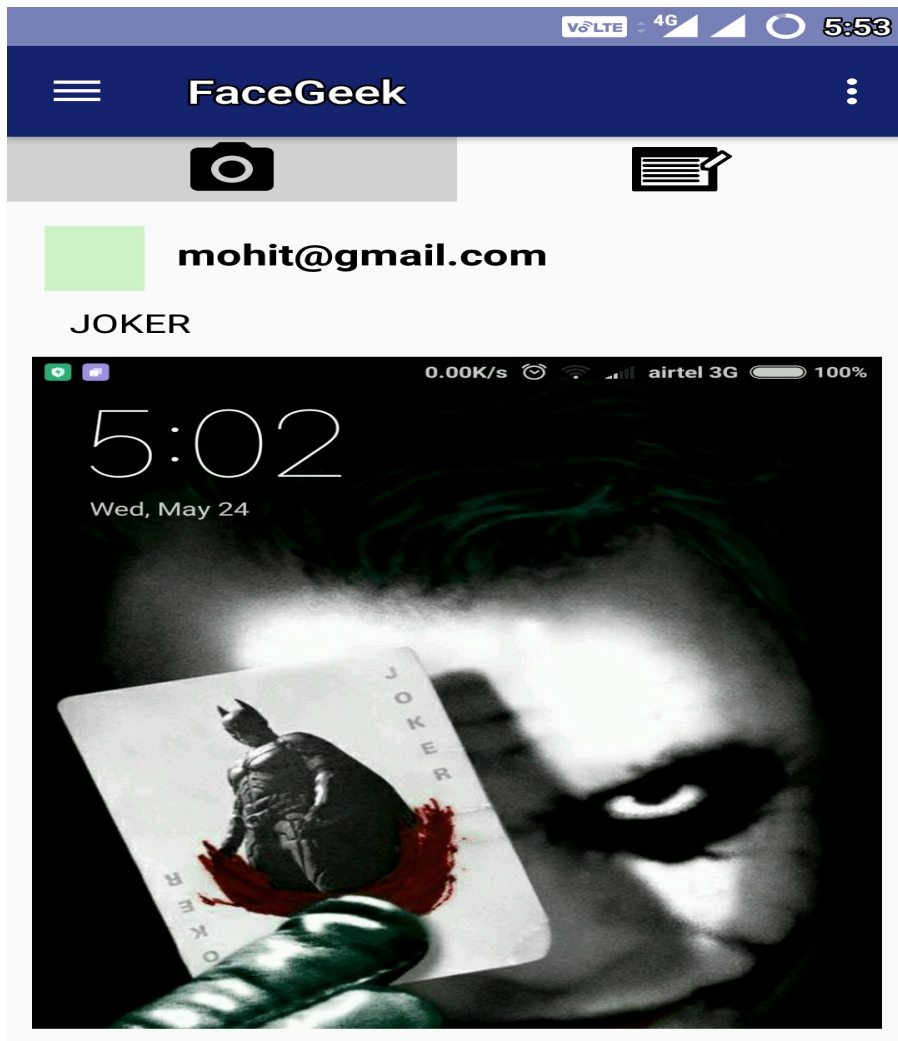
A Codesprint Presentation

FACEGEEK(SOCIAL MEDIA APP)

BY

MOHIT AGRAWAL

1MS14IS063



FACEGEEK

This app is for all the social media lover's who loves to share every moment of their life with everyone else around with photo's and status.

FaceGeek is a social media app. Login into their accounts and experience vast features.

MANIFEST FILE

```
<uses-permission android:name="android.permission.INTERNET" />
```

```
<application
  android:allowBackup="true"
  android:icon="@mipmap/ic_launcher"
  android:label="@string/app_name"
  android:roundIcon="@mipmap/ic_launcher_round"
  android:supportRtl="true"
  android:theme="@style/AppTheme">
  <activity android:name=".MainActivity">
    <intent-filter>
      <action android:name="android.intent.action.MAIN" />
      <category android:name="android.intent.category.LAUNCHER" />
    </intent-filter>
  </activity>
  <activity android:name=".LoginActivity" />
  <activity android:name=".ProfileActivity" />
```

```
<activity
  android:name=".Main2Activity"
  android:label="@string/title_activity_main2"
  android:theme="@style/AppTheme.NoActionBar" />

  <activity android:name=".uploadimage" />
  <activity android:name=".inlarge" />
  <activity android:name=".statusyahanhai" />
  <activity android:name=".profilepicture"/>
  <activity android:name=".timelinepicture"/>
  <activity android:name=".chatroom">
  </activity>
</application>
```

UI Event Handling (Activities, Intents, Message Passing)

```
Intent i = new Intent(getContext(),  
inlarge.class);  
String p = imglist.get(position).getUrl();  
String no = "no";  
i.putExtra("url", p);  
i.putExtra("name", item2);  
i.putExtra("no", no);  
startActivity(i);
```

```
ImageView im = (ImageView)  
findViewById(R.id.inlarge);  
Intent i = getIntent();  
final String url = i.getStringExtra("url");  
z = url;  
String decide = i.getStringExtra("no");  
String n = i.getStringExtra("name")
```

```
if (id == R.id.home) {  
    fragmentManager.beginTransaction().replace(R.id.content_main2, frag1).commit();  
}  
else if (id == R.id.upload) {  
    startActivity(new Intent(getApplicationContext(), uploadimage.class));  
}  
else if (id == R.id.myupload) {  
    fragmentManager.beginTransaction().replace(R.id.content_main2, frag3).commit();  
}  
else if (id == R.id.myprofile) {  
    fragmentManager.beginTransaction().replace(R.id.content_main2, frag4).commit();  
}  
else if (id == R.id.feedback) {  
    startActivity(new Intent(getApplicationContext(), chatroom.class));  
}  
else if (id == R.id.status) {  
    startActivity(new Intent(getApplicationContext(), statusyahanhai.class));  
}  
else if (id == R.id.users) {  
    fragmentManager.beginTransaction().replace(R.id.content_main2, frag6).commit();  
}  
else if (id == R.id.notification) {  
    fragmentManager.beginTransaction().replace(R.id.content_main2, frag7).commit();  
}
```




Firebase API

FIREBASE AUTHENTICATION

Email and password based authentication

Authenticate users with their email addresses and passwords. The Firebase Authentication SDK provides methods to create and manage users that use their email addresses and passwords to sign in. Firebase Authentication also handles sending password reset emails.

compile **'com.google.firebase:firebase-auth:10.0.1'**

Authentication				
USERS SIGN-IN METHOD TEMPLATES				
<div><div><div></div><div>Search by email address, phone number, or user UID</div></div><div>ADD USER</div><div></div></div>				
Identifier	Providers	Created	Signed In	User UID ↑
mohit@gmail.com		May 14, 2017	May 24, 2017	30Ga8zFwX7SEqcBOq5iEqjBTY22
mohitkishanmukund@gmail....		May 24, 2017	May 24, 2017	6zM2H2TI9fZbA5LI3nB5Fe7yIr2
soni@gmail.com		May 14, 2017	May 14, 2017	MleitzcaOGRII3PUDfbRWHmmTwj1
Rows per page: 50 1-3 of 3 < >				

Firebase API(continued...)

Email templates ?

Email Types

Email address verification

Password reset

Email address change

SMS Types

SMS verification

Template language
English

Password reset

When a user forgets their password, a password reset email is sent to help them set up a new one.
[Learn more](#)

Sender name

not provided

From

noreply@mohit-28a60.firebaseio.com

Reply to

not provided

Subject

Reset your password for Mohit

Message

Hello,

Follow this link to reset your Mohit password for your %EMAIL% account.

https://mohit-28a60.firebaseio.com/_/auth/action?mode=<action>&oobCode=<code>

If you didn't ask to reset your password, you can ignore this email.

Thanks,

Your Mohit team

Firestore Data Reference

```
img
├── -Kk4MPrrXTRjTulYVkhm
│   ├── likes: 0
│   ├── loader: "mohit@gmail.com"
│   ├── name: "dinner at kannauht palace"
│   └── url: "https://firebasestorage.googleapis.com/v0/b/moh..."
├── -Kk4MXdDF4syzz1tGeR9
│   ├── likes: 0
│   ├── loader: "mohit@gmail.com"
│   ├── name: "starters for beginning"
│   └── url: "https://firebasestorage.googleapis.com/v0/b/moh..."
├── -Kk4Mb3YfCwFYJkLfQdI
│   ├── likes: 0
│   ├── loader: "mohit@gmail.com"
│   ├── name: "oh m q...I cannot believe my eyes dude."
│   └── url: "null"
├── -Kk4QoSvfvFMQvujvldb
│   ├── likes: 0
│   ├── loader: "soni@gmail.com"
│   ├── name: "i was born an artist"
│   └── url: "https://firebasestorage.googleapis.com/v0/b/moh..."
└── -Kk4QuAnFuf3n4zAELks
    ├── likes: 0
    ├── loader: "soni@gmail.com"
    ├── name: "yes I am the artist..."
    └── url: "null" ✖
```

```
mohit-28a60
├── chat
└── images
    ├── mohit@gmail
    │   └── images
    │       ├── -Kk4MPrrfgKlgGGLaRKO
    │       │   ├── likes: 0
    │       │   ├── loader: "mohit@gmail.com"
    │       │   ├── name: "dinner at kannauht palace"
    │       │   └── url: "https://firebasestorage.googleapis.com/v0/b/moh..."
    │       ├── -Kk4MXd9ed7pri5ZVVBd
    │       │   ├── likes: 0
    │       │   ├── loader: "mohit@gmail.com"
    │       │   ├── name: "starters for beginning"
    │       │   └── url: "https://firebasestorage.googleapis.com/v0/b/moh..."
    │       ├── -Kk4Mb3X_K8puS2L42V1
    │       │   ├── likes: 0
    │       │   ├── loader: "mohit@gmail.com"
    │       │   ├── name: "oh m q...I cannot believe my eyes dude."
    │       │   └── url: "null"
    │       ├── -KkttwlvbHgl5Eyg
    │       ├── -KktxH_SAG0cDLH80QOK
    │       ├── -KktxQDj3avQfPMkhufh
    │       ├── -KktxgNqgr2UQDtnpEpB
    │       ├── -Kkty3X7ZAJSA1jyxbCI
    │       ├── -Kku0Jd2H9ii69ytH8jK
    │       │   ├── likes: 0
    │       │   ├── loader: "mohit@gmail.com"
    │       │   ├── name: "Haan tu hi Hai"
    │       │   └── url: "null"
    │       └── -Kku4RpN9BFuyp5SvhBI
    │           ├── likes: 0
    │           ├── loader: "mohit@gmail.com"
    │           ├── name: "Haan tu hi Hai"
    │           └── url: "null"
    └── soni@gmail
        └── images
            ├── -Kk4MPrrfgKlgGGLaRKO
            │   ├── likes: 0
            │   ├── loader: "soni@gmail.com"
            │   ├── name: "dinner at kannauht palace"
            │   └── url: "https://firebasestorage.googleapis.com/v0/b/moh..."
            ├── -Kk4MXd9ed7pri5ZVVBd
            │   ├── likes: 0
            │   ├── loader: "soni@gmail.com"
            │   ├── name: "starters for beginning"
            │   └── url: "https://firebasestorage.googleapis.com/v0/b/moh..."
            ├── -Kk4Mb3X_K8puS2L42V1
            │   ├── likes: 0
            │   ├── loader: "soni@gmail.com"
            │   ├── name: "oh m q...I cannot believe my eyes dude."
            │   └── url: "null"
            ├── -KkttwlvbHgl5Eyg
            ├── -KktxH_SAG0cDLH80QOK
            ├── -KktxQDj3avQfPMkhufh
            ├── -KktxgNqgr2UQDtnpEpB
            ├── -Kkty3X7ZAJSA1jyxbCI
            ├── -Kku0Jd2H9ii69ytH8jK
            │   ├── likes: 0
            │   ├── loader: "soni@gmail.com"
            │   ├── name: "Haan tu hi Hai"
            │   └── url: "null"
            └── -Kku4RpN9BFuyp5SvhBI
                ├── likes: 0
                ├── loader: "soni@gmail.com"
                ├── name: "Haan tu hi Hai"
                └── url: "null"
```

Firestore DataReference

The Firebase Realtime Database is a cloud-hosted database. Data is stored as JSON and synchronized in realtime to every connected client. When you build cross-platform apps with our iOS, Android, and JavaScript SDKs, all of your clients share one Realtime Database instance and automatically receive updates with the newest data.

```
{
  "chat" : {
    "-Kk4RBU3c6vgev8E__Rs" : {
      "message" : "soni@gmail.com",
      "sender" : "hii",
      "time" : 1494739896429
    },
    "-KktmT1YvN2deI8fv4o5" : {
      "message" : "soni@gmail.com",
      "sender" : "hi ppl...I am Mohit...wassup",
      "time" : 1495618150530
    },
    "-KkuQH9ncJ2zAb34UT0s" : {
      "message" : "mohit@gmail.com",
      "sender" : "oh hi...well I will see you later...thanks for ur help👍👍👍xoxo",
      "time" : 1495628850004
    },
    "-Kkv2FnQvAdMcj6_g6T_" : {
      "message" : "mohitkishanmukund@gmail.com",
      "sender" : "hi wassup",
      "time" : 1495639329474
    },
    "-Kkv2GPwqLXJoFA0w26y" : {
      "message" : "mohitkishanmukund@gmail.com",
      "sender" : "where r uh",
      "time" : 1495639332002
    },
    "-Kkv2I7eviux9_5IIQ_g" : {
      "message" : "mohitkishanmukund@gmail.com"
    }
  }
}
```


Firestore Storage

Storage

FILES

RULES

gs://mohit-28a60.appspot.com > mohit@gmail.com

UPLOAD FILE



<input type="checkbox"/>	Name	Size	Type	Last modified
★ Default security rules require users to be authenticated			LEARN MORE	DISMISS
..	1494738902346.jpg	977.55 KB	image/jpeg	May 14, 2017
..	1494738968624.jpg	3.86 MB	image/jpeg	May 14, 2017
..	1494739007497.jpg	2.21 MB	image/jpeg	May 14, 2017
..	1495624609402.jpg	104.1 KB	image/jpeg	May 24, 2017
..	dinner at cannaught palace.jpg	1.75 MB	image/jpeg	May 14, 2017
..	exams.jpg	50.86 KB	image/jpeg	May 24, 2017
..	joker.png	909.3 KB	image/png	May 24, 2017
..	rain.jpg	2.02 MB	image/jpeg	May 24, 2017
..	starters for beginning.jpg	2.46 MB	image/jpeg	May 14, 2017

DATA STRUCTURES USED

ARRAYLIST

The arraylist is an array and having collection of items. The ADD method in the ArrayList class is used to add the new object to the end of the ArrayList and it can be dynamically grow and shrink also we can add different data type of objects in the ArrayList. FaceGeek uses arraylist store list of objects in arraylist and then present the list of object is arrayadapter for the listview to show. It also stores user signup details as objects that is later added to the database for future reference. The get(index) method is a constant time, $O(1)$, operation. The add operation runs in amortized constant time, that is, adding n elements requires $O(n)$ time.

HASHMAP

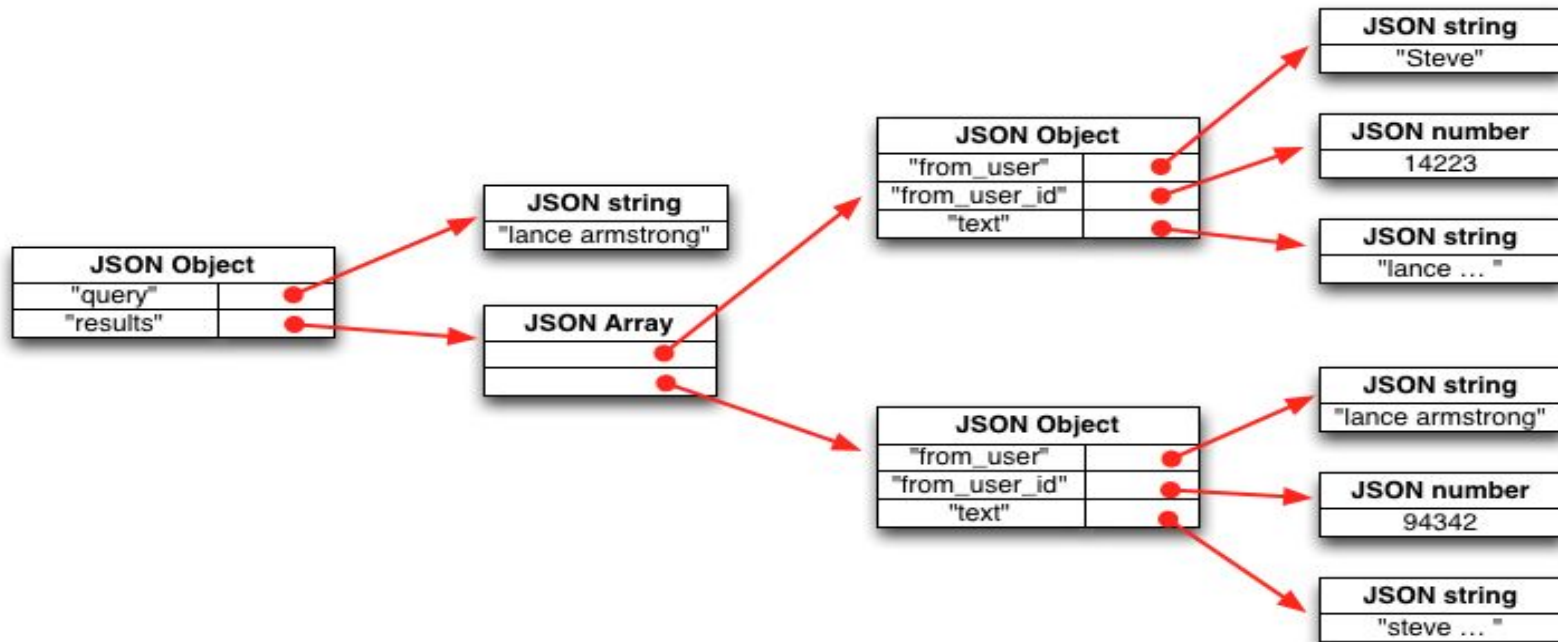
The HashMap class uses a hashtable to implement the Map interface. This allows the execution time of basic operations, such as get() and put(), to remain constant even for large sets.

HashMap works on principle of hashing and internally uses hashcode as a base, for storing key-value pair.

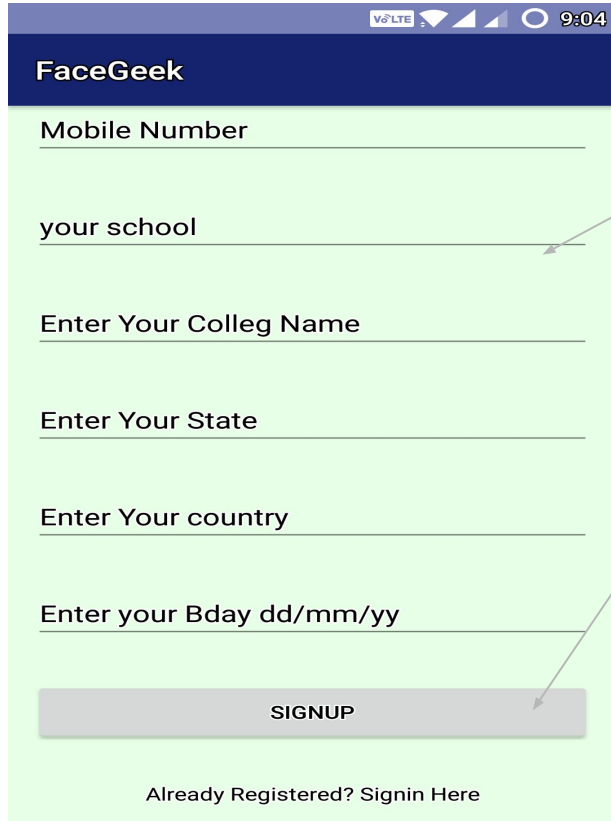
With the help of hashcode, HashMap distribute the objects across the buckets in such a way that hashmap put the objects and retrieve it in constant time $O(1)$.

DATA STRUCTURES (CONTINUED...)

JSON TREE



SCREENSHOTS



FaceGeek

Mobile Number

your school

Enter Your Colleg Name

Enter Your State

Enter Your country

Enter your Bday dd/mm/yy

SIGNUP

Already Registered? Signin Here

ENTER YOUR
DETAILS

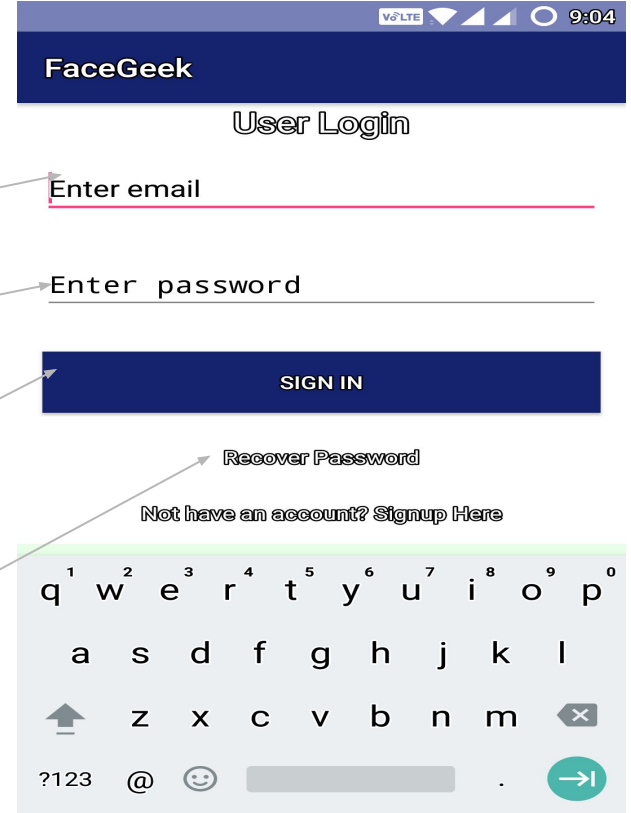
ENTER
EMAIL-ID

ENTER
PASSWORD

SIGN UP

SIGN IN

RECOVER
PASSWORD



FaceGeek

User Login

Enter email

Enter password

SIGN IN

Recover Password

Not have an account? Signup Here

q¹ w² e³ r⁴ t⁵ y⁶ u⁷ i⁸ o⁹ p⁰

a s d f g h j k l

↑ z x c v b n m ×

?123 @ ☺ . →

SCREENSHOTS

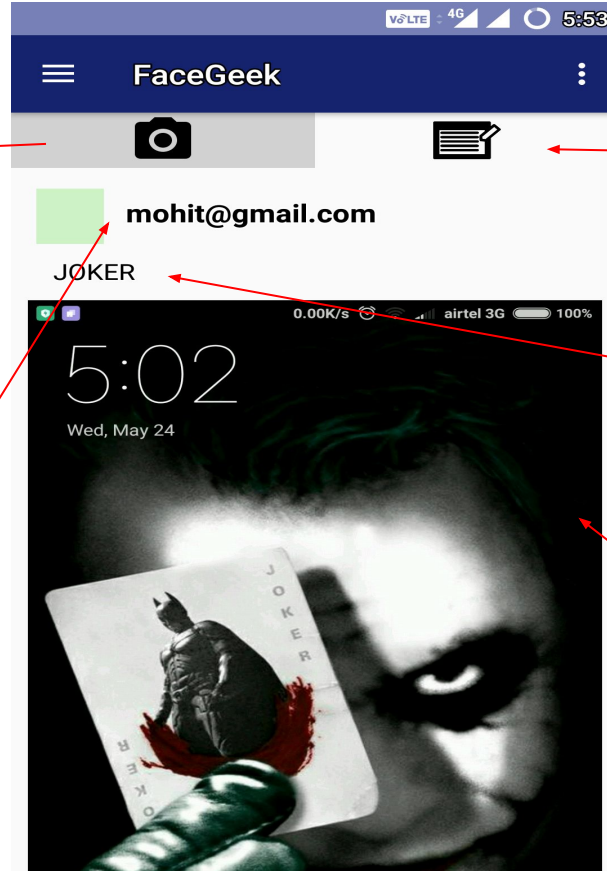
UPLOAD
PHOTO

UPLOAD
STATUS

UPLOADER
EMAIL - ID

DESCRIPTION
OF
IMAGE

UPLOADED
IMAGES



SCREENSHOTS

NAVIGATION
DRAWER
TO ACCESS
DIFFERENT
FEATURE OF APP

TIMELINE
PICTURE

Profile
Picture

LOGOUT
OPTION

EDIT YOUR
DETAILS
ANYTIME

USER DETAILS



EDIT YOUR PROFILE DETAILS

mohit agrawal

Went to School :christ church high school

Went to College :ramalah technology

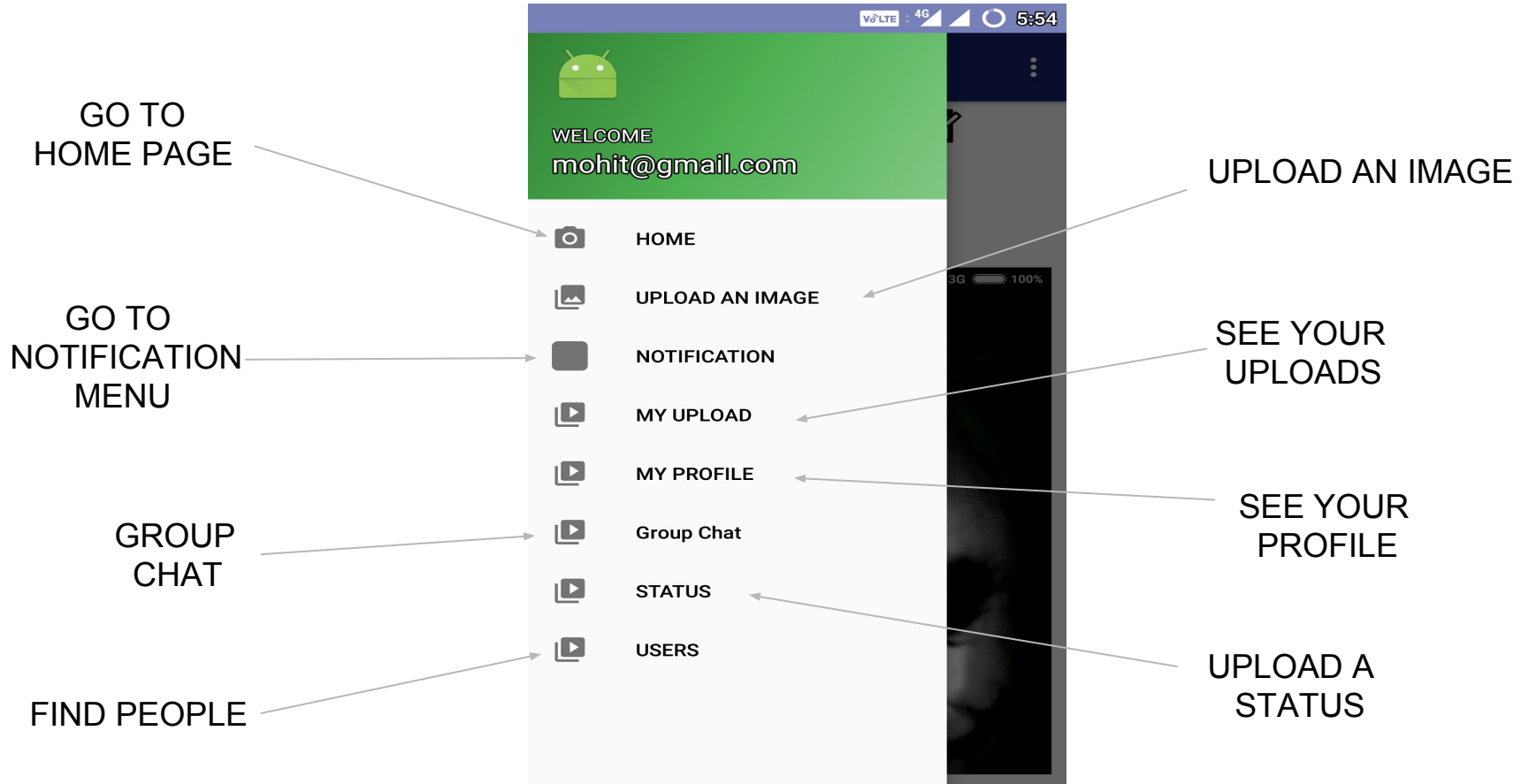
Lives in bihar,india

From bihar,india

BirthDay :15/01/1996

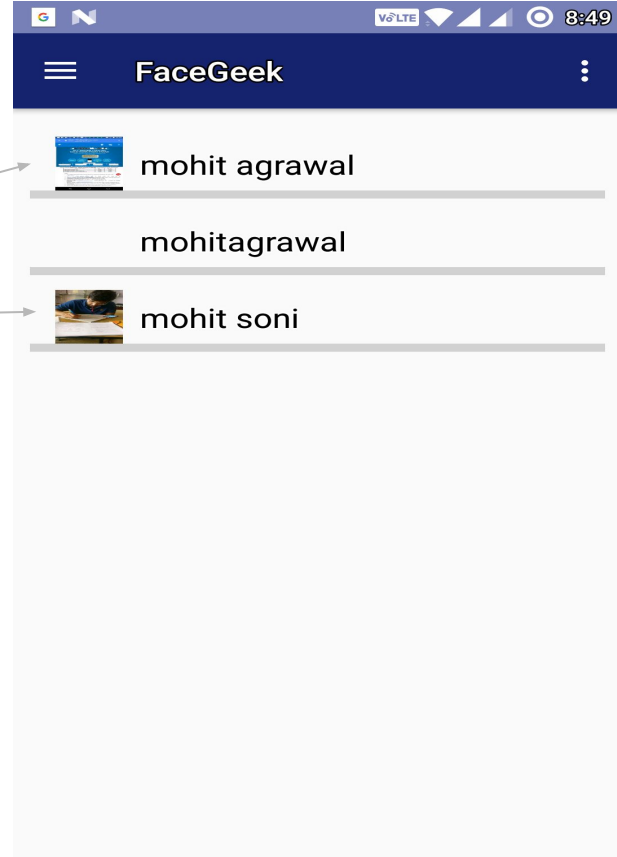
EDIT YOUR TIMELINE PIC

SCREENSHOTS



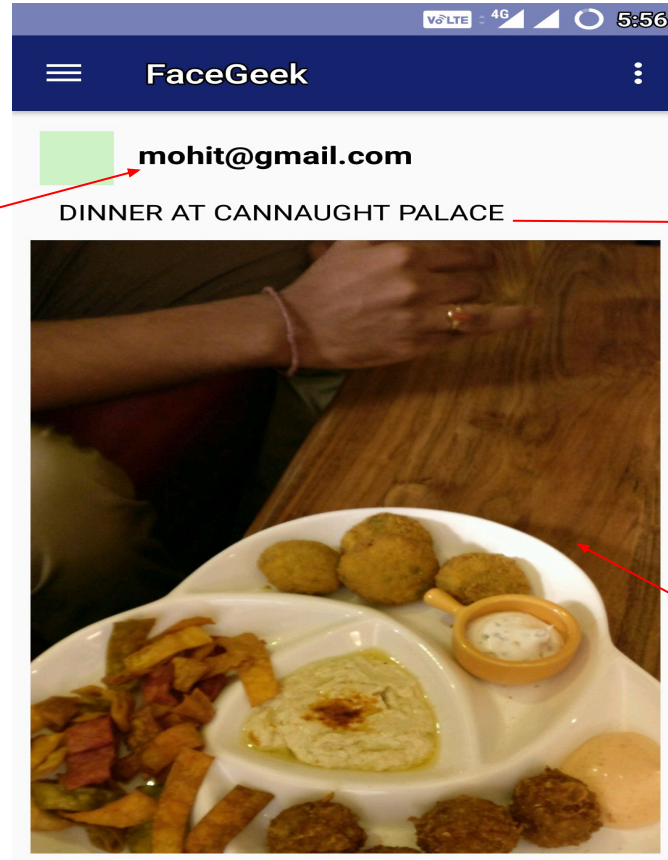
SCREENSHOTS

**USER'S
WHO
INSTALLED
THE APP**



SCREENSHOTS

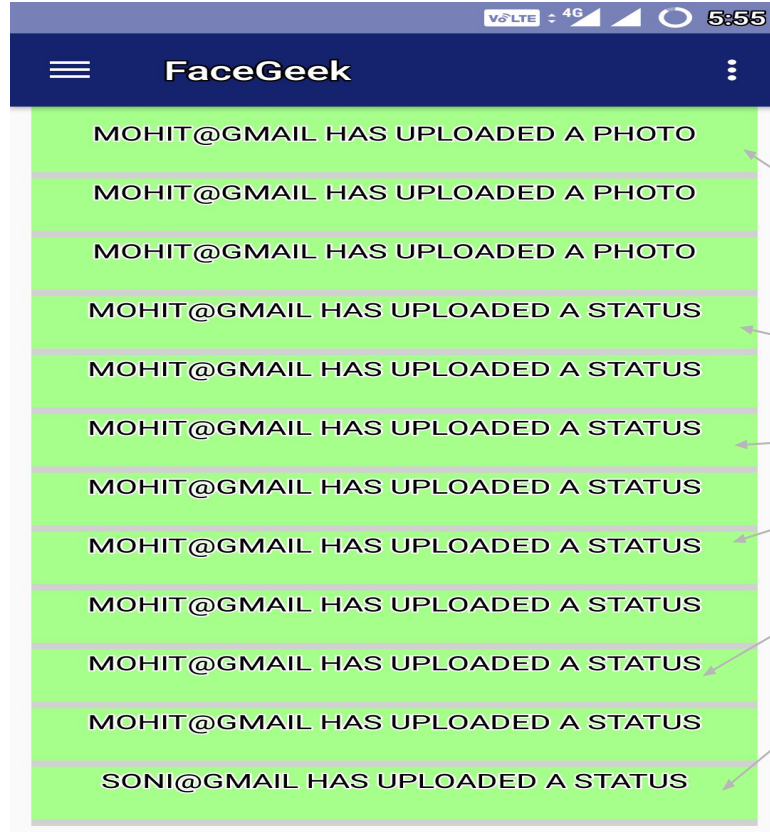
UPLOADER
EMAIL - ID



DESCRIPTION
OF
IMAGE

UPLOADED
IMAGES

SCREENSHOTS



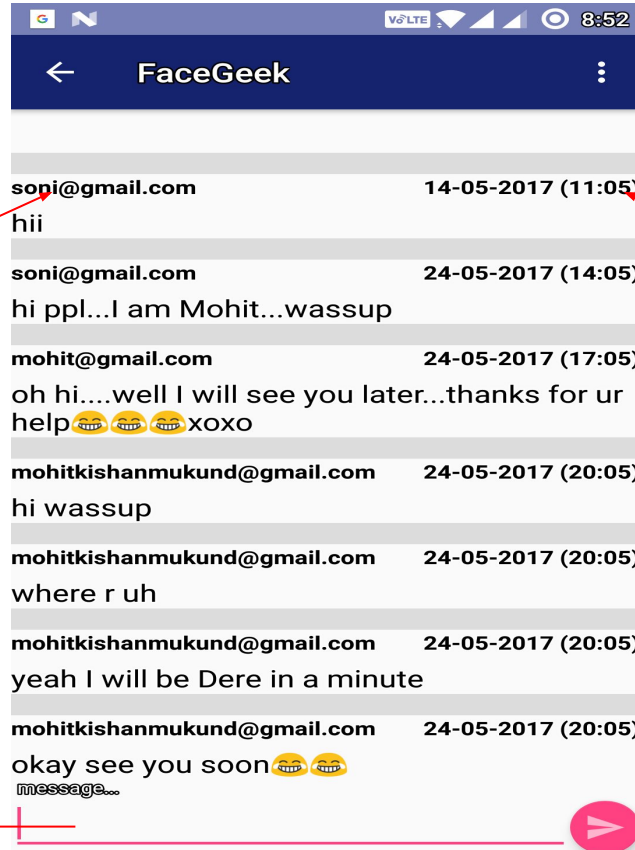
**NOTIFICATIONS
MENU
TO VIEW
NOTIFICATION
FOR IMAGES
AND STATUS**

SCREENSHOTS

MESSAGE
SENDER-ID

TIME OF
MESSAGE

TYPE A MESSAGE
TO SEND



SCREENSHOTS



WRITE THE STATUS

Whats's On Your Mind

UPLOAD STATUS

UPLOAD
STATUS



BROWSE FROM
GALLERY TO
UPLOAD

IMAGE THAT WILL
BE UPLOADED

IMAGE
DESCRIPTION

UPLOAD
IMAGE

BROWSE FROM GALLERY

Image Name

UPLOAD IMAGE