COVID 19 SPREAD RESISTOR

10.5.2020

RACHIT RANJAN
Individual
Vasant kunj
New delhi,110070
github/rac101ran

Overview

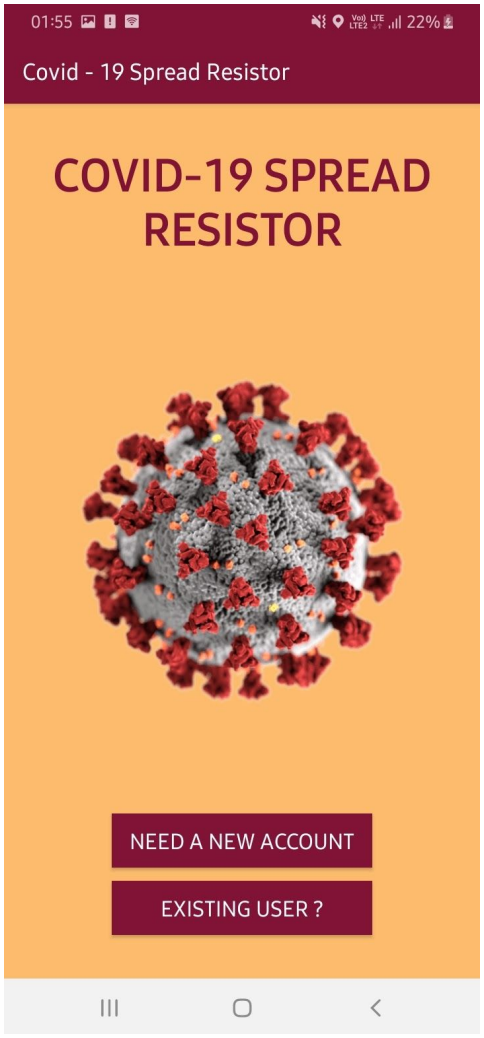
I am looking forward to make an impact towards resisting the spread of covid 19
This is a global pandemic now. I hope to contribute .

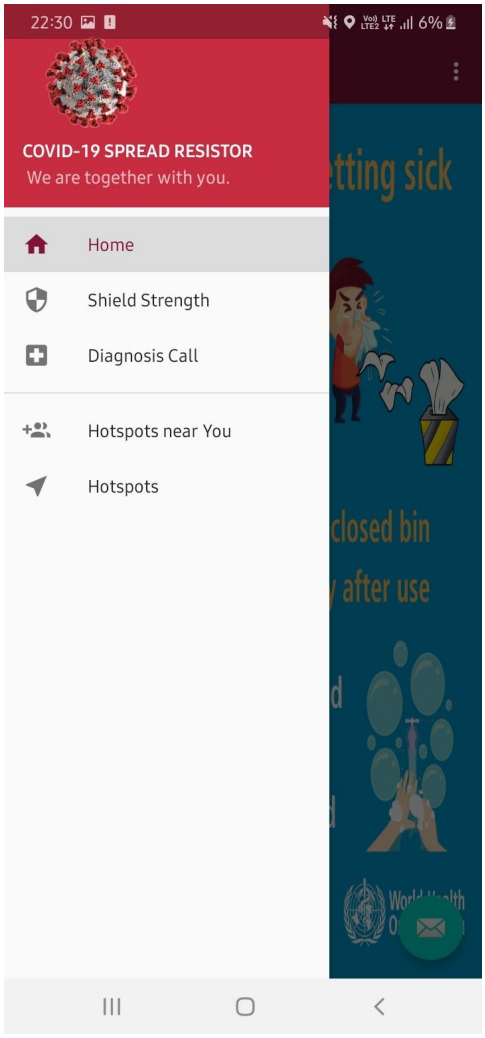
Goals

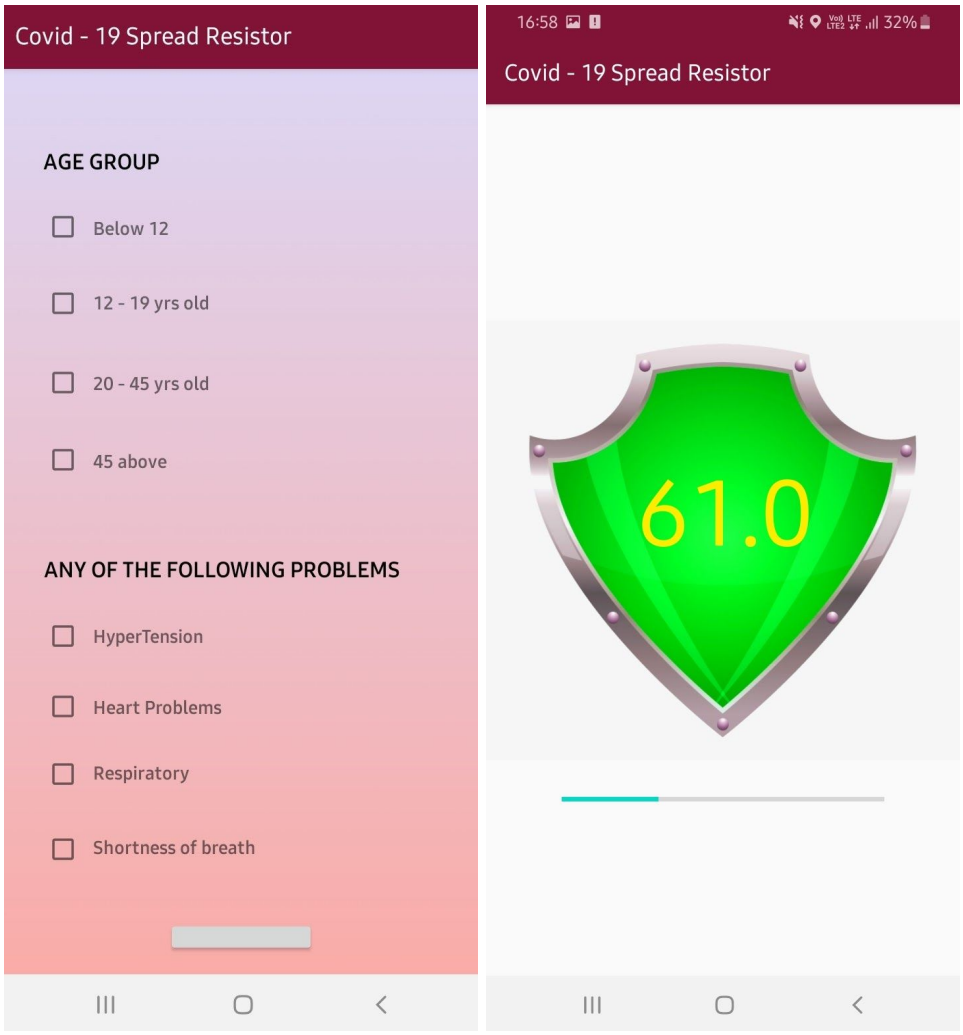
1. To build a secure application that helps people.
2. It makes them follow lockdown , and stay in quarantine.
3. It is an ultimate application for people to stop the spread of covid 19.

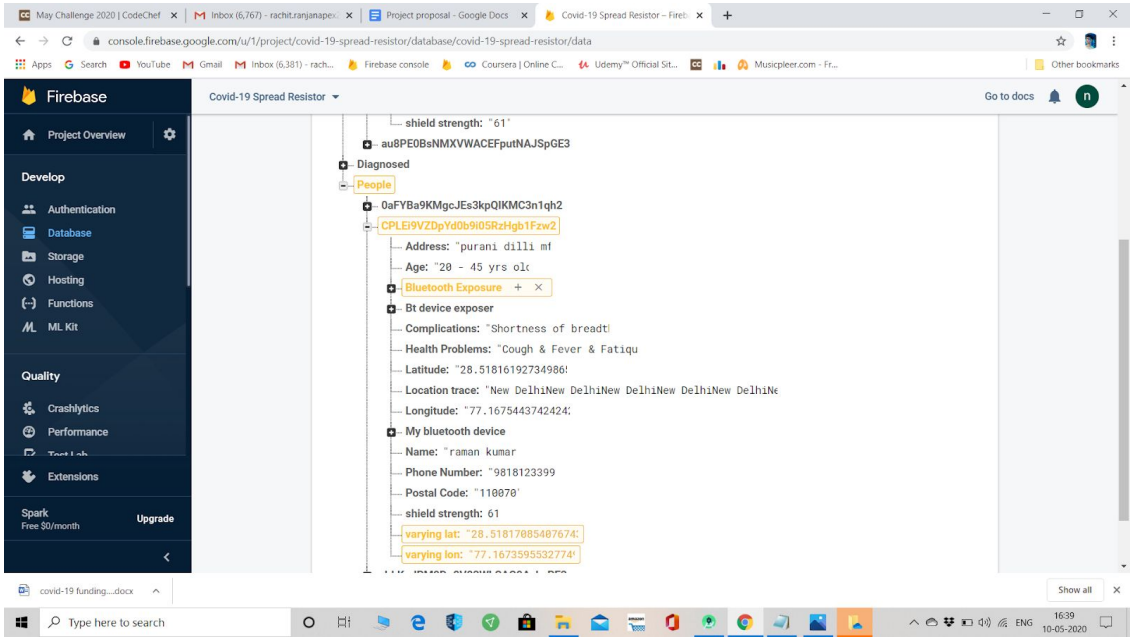
Specifications

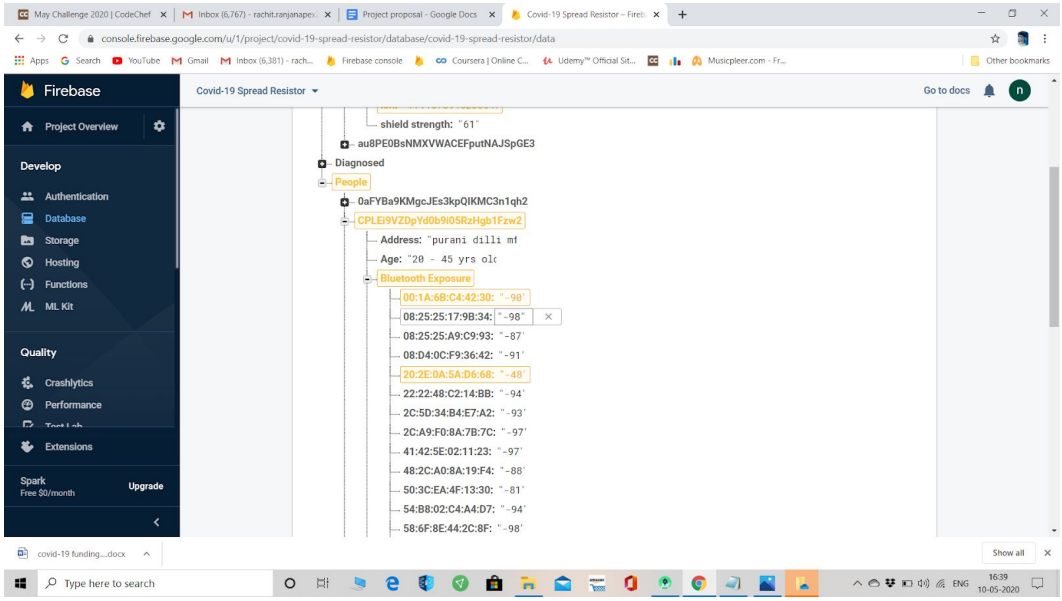
This application is built on android and will surely come on ios as well.
My Application will reduce the spread of covid 19 drastically.
If a person tests positive , all the exposed bluetooth devices in 1- 2metre
range will be notified that they might be infected.
Secondly, this application will have a constant max shield strength of every individual.
The shield strength will vary upon some ques. that the individual answers in the application ie. age , history of diseases , locality , current symptoms if any , and most importantly the going out frequency of the individual ie. the coordinates of shelter versus the current coordinates .If the distance between them is increased beyond 0.2 km, that implies people are going out.THIS APPLICATION WORKS ON BACKGROUND EVEN IF THE SYSTEM KILLS IT FROM RECENTS.
If the GOING OUT FREQUENCY , increases the strength of the people will
decrease. Three types of people will be shown on the map in every particular region ie. GREEN , YELLOW and RED people based on their shield strength .The Government can contact the people with low shield strength or take action against those have more GOING OUT FREQUENCY for random diagnosis tests.This tells how much a person is prone to coronavirus. Every person will know how cautious the people are in the locality.
The application is ready and it's BETA version is successfully tested.

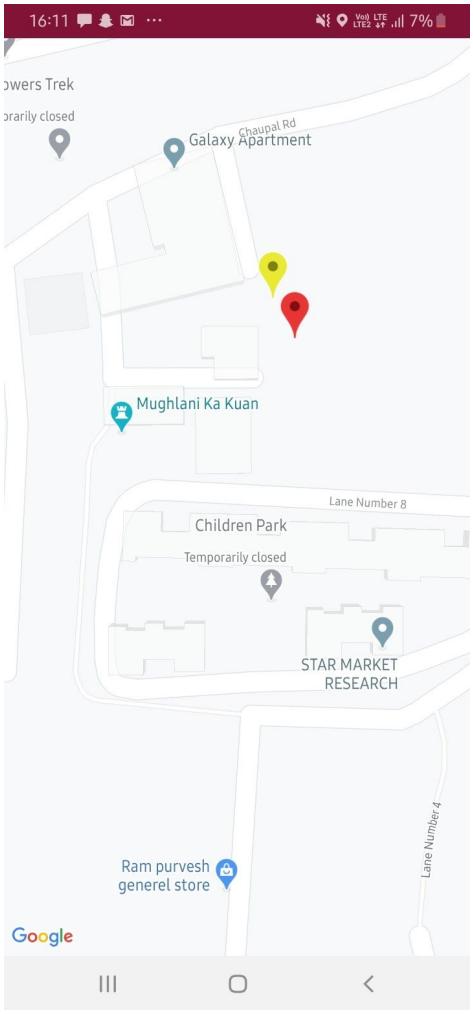

01:55
22%
Covid - 19 Spread Resistor
COVID-19 SPREAD RESISTOR
NEED A NEW ACCOUNT
EXISTING USER ?

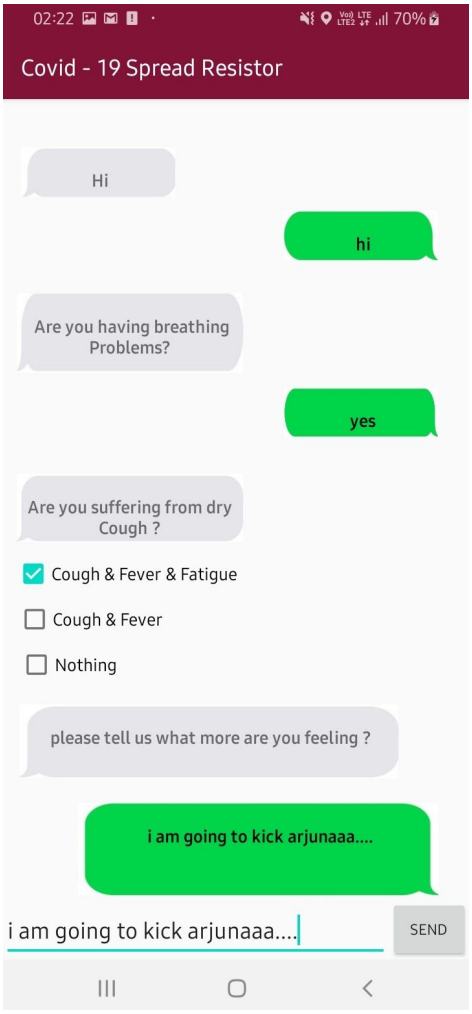

22:30
6%
COVID-19 SPREAD RESISTOR
We are together with you.
Home
Shield Strength
Diagnosis Call
Hotspots near You
Hotspots


Covid - 19 Spread Resistor
AGE GROUP
Below 12
12 - 19 yrs old
20 - 45 yrs old
45 above
ANY OF THE FOLLOWING PROBLEMS
HyperTension
Heart Problems
Respiratory
Shortness of breath
16:58
32%
Covid - 19 Spread Resistor
61.0

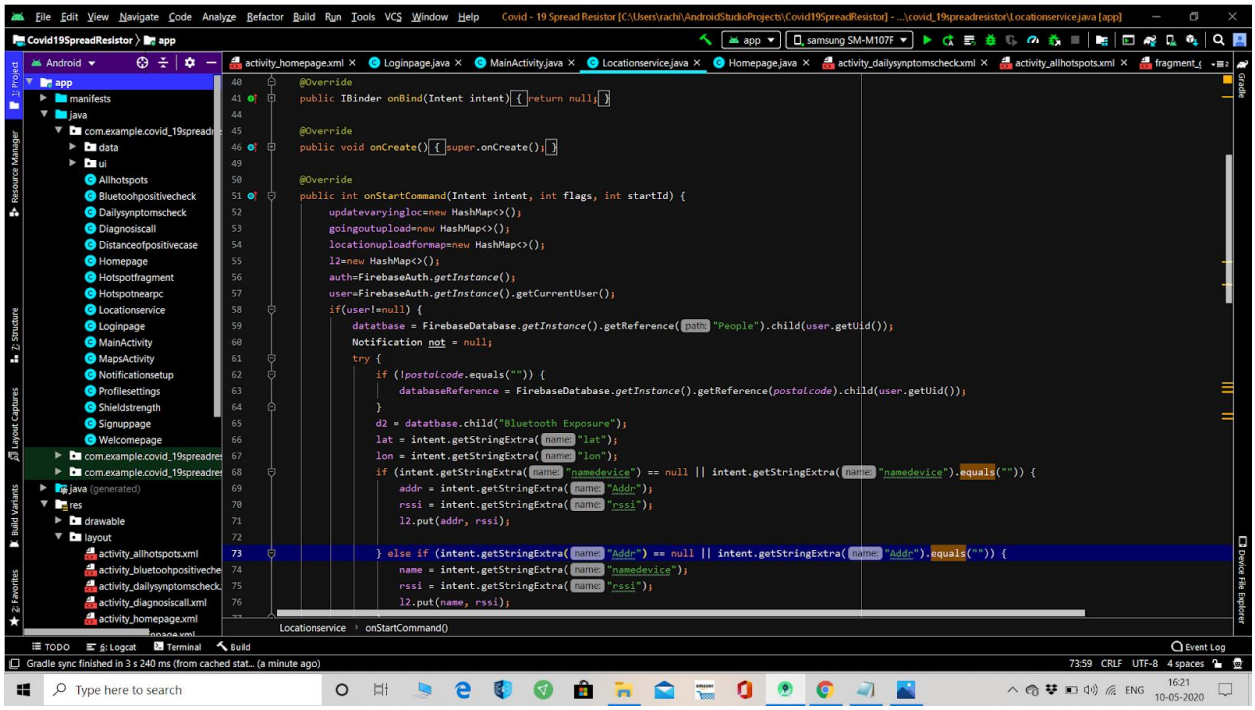

Firebase
Covid-19 Spread Resistor
Go to docs
Project Overview
Develop
Authentication
Database
Storage
Hosting
Functions
ML Kit
Quality
Crashlytics
Performance
Extensions
Spark
Free $0/month
Upgrade
shield strength: "61"
au8PE0BsNMXVWACEFputNAJSpGE3
Diagnosed
People
0aFYBa9KMgcJEs3kpQIKMC3n1qh2
CPLEi9VZDpYd0b9i05RzHgb1Fzw2
Address: "purani dilli mf
Age: "20 - 45 yrs old
Bluetooth Exposure
Bt device exposer
Complications: "Shortness of breadt
Health Problems: "Cough & Fever & Fatiqu
Latitude: "28.51816192734986
Location trace: "New DelhiNew DelhiNew DelhiNew DelhiNew DelhiNe
Longitude: "77.1675443742424
My bluetooth device
Name: "raman kumar
Phone Number: "9818123399
Postal Code: "110070"
shield strength: 61
varying lat: "28.51817085407674
varying lon: "77.1673595532774
Type here to search







RED and YELLOW type people on the BETA version of the application.

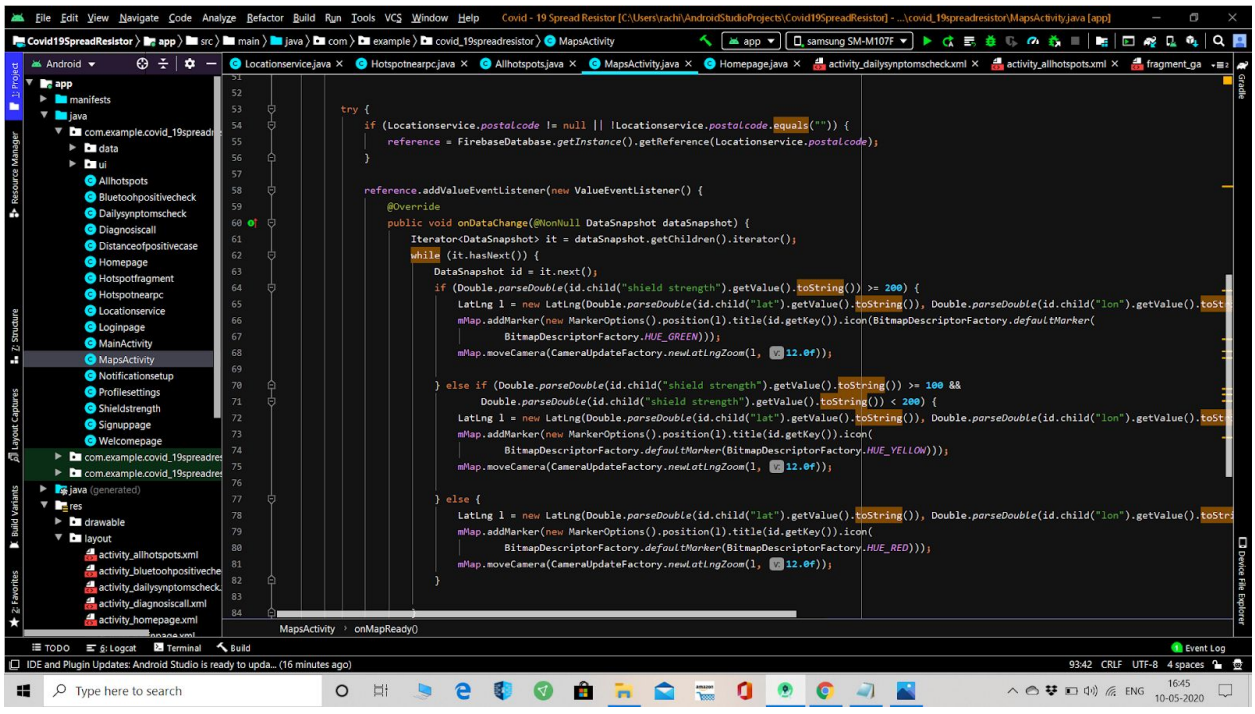


```
@Override
public IBinder onBind(Intent intent) {return null;}

@Override
public void onCreate() {super.onCreate();}

@Override
public int onStartCommand(Intent intent, int flags, int startId) {
    updatevaryingloc=new HashMap<>();
    goingoutupload=new HashMap<>();
    locationuploadformap=new HashMap<>();
    l2=new HashMap<>();
    auth=FirebaseAuth.getInstance();
    user=FirebaseAuth.getInstance().getCurrentUser();
    if(user!=null) {
        datatbase = FirebaseDatabase.getInstance().getReference( path: "People").child(user.getUid());
        Notification not = null;
        try {
            if (!postalcode.equals("")) {
                databaseReference = FirebaseDatabase.getInstance().getReference(postalcode).child(user.getUid());
            }
            d2 = datatbase.child("Bluetooth Exposure");
            lat = intent.getStringExtra( name: "lat");
            lon = intent.getStringExtra( name: "lon");
            if (intent.getStringExtra( name: "namedevice") == null || intent.getStringExtra( name: "namedevice").equals("")) {
                addr = intent.getStringExtra( name: "Addr");
                rssi = intent.getStringExtra( name: "rssi");
                l2.put(addr, rssi);

            } else if (intent.getStringExtra( name: "Addr") == null || intent.getStringExtra( name: "Addr").equals("")) {
                name = intent.getStringExtra( name: "namedevice");
                rssi = intent.getStringExtra( name: "rssi");
                l2.put(name, rssi);
```



```
try {
    if (Locationservice.postalcode != null || !Locationservice.postalcode.equals("")) {
        reference = FirebaseDatabase.getInstance().getReference(Locationservice.postalcode);
    }

    reference.addValueEventListener(new ValueEventListener() {
        @Override
        public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
            Iterator<DataSnapshot> it = dataSnapshot.getChildren().iterator();
            while (it.hasNext()) {
                DataSnapshot id = it.next();
                if (Double.parseDouble(id.child("shield strength").getValue().toString()) >= 200) {
                    LatLng l = new LatLng(Double.parseDouble(id.child("lat").getValue().toString()), Double.parseDouble(id.child("lon").getValue().toSt
                    mMap.addMarker(new MarkerOptions().position(l).title(id.getKey()).icon(BitmapDescriptorFactory.defaultMarker(
                            BitmapDescriptorFactory.HUE_GREEN)));
                    mMap.moveCamera(CameraUpdateFactory.newLatLngZoom(l, 12.0f));

                } else if (Double.parseDouble(id.child("shield strength").getValue().toString()) >= 100 &&
                        Double.parseDouble(id.child("shield strength").getValue().toString()) < 200) {
                    LatLng l = new LatLng(Double.parseDouble(id.child("lat").getValue().toString()), Double.parseDouble(id.child("lon").getValue().toSt
                    mMap.addMarker(new MarkerOptions().position(l).title(id.getKey()).icon(
                            BitmapDescriptorFactory.defaultMarker(BitmapDescriptorFactory.HUE_YELLOW)));
                    mMap.moveCamera(CameraUpdateFactory.newLatLngZoom(l, 12.0f));

                } else {
                    LatLng l = new LatLng(Double.parseDouble(id.child("lat").getValue().toString()), Double.parseDouble(id.child("lon").getValue().toStr
                    mMap.addMarker(new MarkerOptions().position(l).title(id.getKey()).icon(
                            BitmapDescriptorFactory.defaultMarker(BitmapDescriptorFactory.HUE_RED)));
                    mMap.moveCamera(CameraUpdateFactory.newLatLngZoom(l, 12.0f));
                }
```

Thank you.