

**B.R.A.C.T's. Vishwakarma Institute of Information
Technology**

Pune



Department of Information Technology

A Project Report

On

“CovidSSavy App”

Submitted By

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1. INTRODUCTION

The ‘COVID SSavy’ project developed to overcome the problems that are caused by the pandemic caused by COVID-19

The following project is a great way to minimize the damage caused by the present conditions of COVID-19 and help the general public in all possible ways. The following project also has the database of COVID vaccination centers and also all the basic data as required for someone to know whether they are suffering from the disease. The app also has collects the data of the patient and the problems that the patient is going through at any moment and also helps the hospitals identify the patient state at any moment of time

This project will surely help the general public and everyone to locate the nearest COVID centre and get themselves treated. The app also collects the data from the consumer/sufferer and shares it to the doctors thus saving the time and helping everyone out.

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2. NEED OF APPLICATION

This application can and will act as a major tool to decrease fatalities due to COVID as the general consensus will find it easy to locate the testing as well as treatment centers near them.

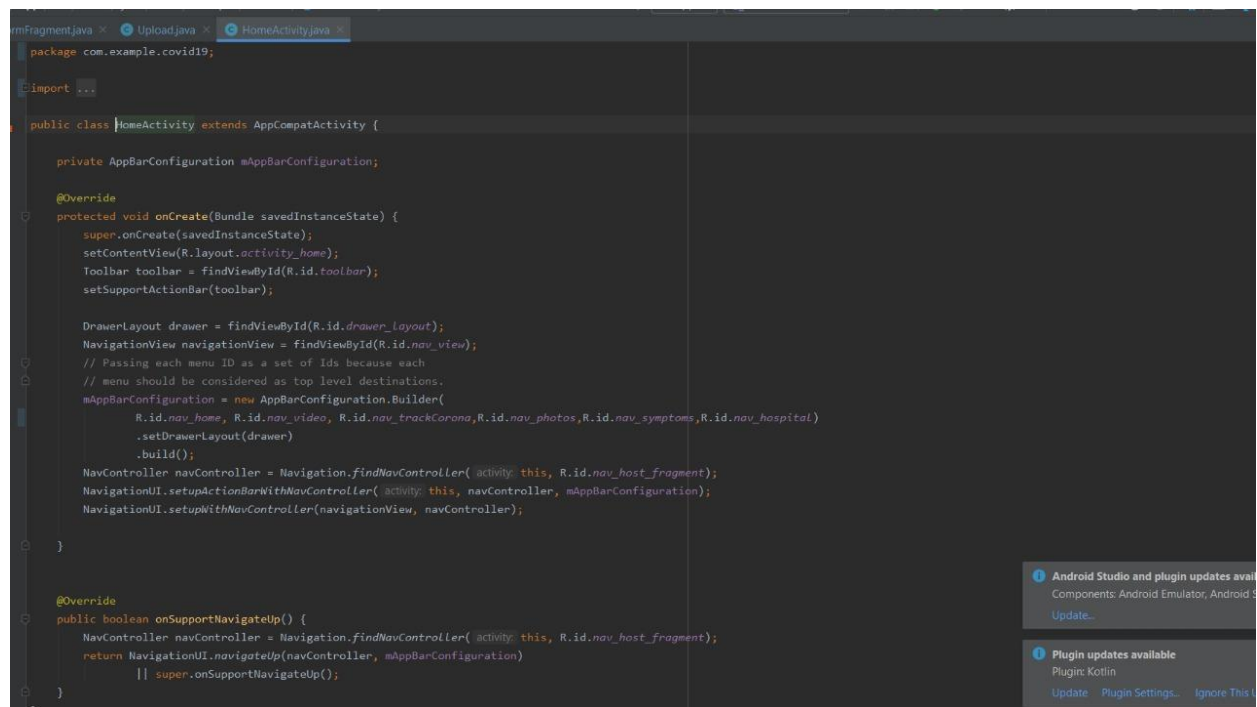
This app also features the locations of clusters in the users neighborhood and thus helping the consumer to locate all the needful.

3. SYSTEM FEATURES

- Collects data from the patient about their symptoms
- Shows the videos to neutralize the effects of COVID-19 and how to avoid
- Contains visual description in the form of photos to guide any individual to get through COVID-19
- Also provides the information about clusters of disease nearby
- Helps patient to not panic and directly sends data to doctor thus helping in direct consultation

4. IMPLEMENTATION

HomeActivity.java



```
package com.example.covid19;

import androidx.appcompat.app.AppCompatActivity;
import androidx.appcompat.widget.Toolbar;
import androidx.drawerlayout.widget.DrawerLayout;
import androidx.navigation.NavController;
import androidx.navigation.Navigation;
import androidx.navigation.ui.NavigationUI;
import androidx.navigation.ui.app.AppBarConfiguration;

public class HomeActivity extends AppCompatActivity {

    private AppBarConfiguration mAppBarConfiguration;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_home);
        Toolbar toolbar = findViewById(R.id.toolbar);
        setSupportActionBar(toolbar);

        DrawerLayout drawer = findViewById(R.id.drawer_layout);
        NavigationView navigationView = findViewById(R.id.nav_view);
        // Passing each menu ID as a set of IDs because each
        // menu should be considered as top level destinations.
        mAppBarConfiguration = new AppBarConfiguration.Builder(
            R.id.nav_home, R.id.nav_video, R.id.nav_trackCorona, R.id.nav_photos, R.id.nav_symptoms, R.id.nav_hospital)
            .setDrawerLayout(drawer)
            .build();
        NavController navController = Navigation.findNavController(this, R.id.nav_host_fragment);
        NavigationUI.setupActionBarWithNavController(this, navController, mAppBarConfiguration);
        NavigationUI.setupWithNavController(navigationView, navController);
    }

    @Override
    public boolean onSupportNavigateUp() {
        NavController navController = Navigation.findNavController(this, R.id.nav_host_fragment);
        return NavigationUI.navigateUp(navController, mAppBarConfiguration)
            || super.onSupportNavigateUp();
    }
}
```

MainActivity.java

```
package com.example.covid19;

import ...

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        this.requestWindowFeature(Window.FEATURE_NO_TITLE);
        setContentView(R.layout.activity_main);

        final Intent myintent = new Intent( packageContext: this, HomeActivity.class);

        new Thread((Runnable) () -> {
            try {
                Thread.sleep( milliseconds: 3000);
            } catch (InterruptedException e) {
                e.printStackTrace();
            }
            FragmentTransaction fragmentTransaction = getSupportFragmentManager().beginTransaction();
            // fragmentTransaction.add(R.id.fragment_container, new HomeActivity());
            // fragmentTransaction.commit();
            startActivity(myintent);
            finish();
        }).start();
    }
}
```

Android Studio and plugin updates available
Components: Android Emulator, Android S...
Update...

Plugin updates available
Plugin: Kotlin
Update Plugin Settings... Ignore This Up...

Database Inspector Profiler TODO Terminal Git

FormFragment.java

```
package com.example.covid19.ui.home;

import ...

public class FormFragment extends Fragment {

    public View onCreateView(@NonNull LayoutInflater inflater, ViewGroup container, Bundle savedInstanceState) {
        View root = inflater.inflate(R.layout.fragment_form, container, attachToRoot: false);

        return root;
    }
}
```

Android Studio and plugin updates available
Components: Android Emulator, Android SDK...
Update...

Emulator

HomeFragment.java


```
// getting location of user
final double latitude = location.getLatitude();
final double longitude = location.getLongitude();
// do something with LatLng

try {
    fl.removeAllViews();
} catch (Exception e) {
    Log.i( tag, "error", e.getMessage());
}

Bundle b = new Bundle();
b.putString("latitude", String.valueOf(latitude));
b.putString("longitude", String.valueOf(longitude));

FormFragment ff = new FormFragment();
ff.setArguments(b);

FragmentManager fragmentManager = getFragmentManager();
FragmentTransaction fragmentTransaction = fragmentManager.beginTransaction();
fragmentTransaction.replace(R.id.fragment_container, ff);
fragmentTransaction.commit();
}

@Override
public void onStatusChanged(String provider, int status, Bundle extras) {
}

@Override
public void onProviderEnabled(String provider) {
    // do something
}

@Override
public void onProviderDisabled(String provider) {
    // notify user "GPS or Network provider" not available
}
```

```
package com.example.covid19.ui.home;

import ...

public class HomeFragment extends Fragment {

    protected LocationManager locationManager;
    private Button tapButton;
    private FrameLayout fl;

    public View onCreateView(@NonNull LayoutInflater inflater, ViewGroup container, Bundle savedInstanceState) {
        View root = inflater.inflate(R.layout.fragment_home, container, attachToRoot: false);

        isLocationEnabled();
        fl = (FrameLayout) root.findViewById(R.id.fragment_container);

        tapButton = (Button) root.findViewById(R.id.tapButton);

        tapButton.setOnClickListener((v) -> { getLoc(); });

        return root;
    }

    private void getLoc() {
        locationManager = (LocationManager) getActivity().getSystemService(Context.LOCATION_SERVICE);
        if (ActivityCompat.checkSelfPermission(getActivity().getApplicationContext(), Manifest.permission.ACCESS_FINE_LOCATION) != PackageManager.PERMISSION_GRANTED && ActivityCompat.checkSelfPermissionPermissions();
            return;
        }
        final Location loc = locationManager.getLastKnownLocation(LocationManager.GPS_PROVIDER);
        final LocationListener locationListener = new LocationListener() {
            @Override
            public void onLocationChanged(final Location location) {

                // getting location of user
            }
        }
    }
}
```

```
});
locationManager.requestLocationUpdates(LocationManager.GPS_PROVIDER, minTimeMs: 10000, minDistanceM: 500, locationListener);
locationManager.requestLocationUpdates(LocationManager.NETWORK_PROVIDER, minTimeMs: 10000, minDistanceM: 500, locationListener);

Intent intent = new Intent(this, formFragment.class);
//Toast.makeText(this, "temp Latitude:" + location.getLatitude() + ", Longitude:" + location.getLongitude(), Toast.LENGTH_SHORT).show();
Log.i("temp Latitude:", String.valueOf(location.getLatitude()));
intent.putExtra("Latitude", String.valueOf(location.getLatitude()));
intent.putExtra("Longitude", String.valueOf(location.getLongitude()));
startActivity(intent);
}

private boolean isLocationEnabled() {
    LocationManager locationManager = (LocationManager) getActivity().getApplicationContext().getSystemService(Context.LOCATION_SERVICE);
    return locationManager.isProviderEnabled(LocationManager.GPS_PROVIDER) || locationManager.isProviderEnabled(
        LocationManager.NETWORK_PROVIDER
    );
}

@Override
public void onRequestPermissionsResult(int requestCode, String[] permissions, int[] grantResults) {
    super.onRequestPermissionsResult(requestCode, permissions, grantResults);
    if (requestCode == 1) {
        if (grantResults.length > 0 && grantResults[0] == PackageManager.PERMISSION_GRANTED) {
        }
    }
}

private void requestPermissions() {
    ActivityCompat.requestPermissions(
        getActivity(),

```

NotificationFragment.java

```
package com.example.covid19.ui.home;

import ...

public class NotificationFragment extends Fragment {

    private Button okayButton;

    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container, Bundle savedInstanceState) {
        // Inflate the layout for this fragment

        View root = inflater.inflate(R.layout.fragment_notification, container, attachToRoot: false);

        okayButton = (Button) root.findViewById(R.id.okayButton);

        okayButton.setOnClickListener(v -> {
            FragmentManager fragmentManager = getFragmentManager();
            FragmentTransaction fragmentTransaction = fragmentManager.beginTransaction();
            fragmentTransaction.replace(R.id.fragment_container, new HomeFragment());
            fragmentTransaction.commit();
        });
        return root;
    }
}

NotificationFragment is never used
```

Upload.java

```
package com.example.covid19.ui.home;

public class Upload {

    private String mName;
    private String mCity;
    private String mState;
    private String mCountry;
    private String mNumber;
    private String mLatitude;
    private String mLongitude;
    private String mAddress;
    private String mMacAdd;

    public Upload(){

    }

    public Upload(String name, String Address, String city, String state, String country, String number, String latitude, String longitude, String macAdd) {

        if ( name.trim().equals("") || Address.trim().equals("") || city.trim().equals("") || state.trim().equals("") ||country.trim().equals("") ||number.trim().equals("") || latitude.trim().equ

            name = "No Name";
            Address = "No Address";
            city = "No City";
            state="No state";
            country = "No Country";
            number= "No Class";
            Latitude = "No Latitude";
            Longitude = "No Longitude";
            macAdd = "No Mac Address";

        }

        mName = name;
        mAddress =Address;
        mCity = city;
    }
}
```

Android Studio and plugin updates available
Components: Android Emulator, Android SDK Platform-Tools // Update...

Plugin updates available
Plugin: Kotlin
Update Plugin Settings... Ignore This Update

Database Inspector Profiler TODO Terminal Git
Android Studio and plugin updates available: Components: Android Emulator, Android SDK Platform-Tools // Update... (21 minutes ago)
3:14 LF UTF-8 4 spaces master

```
        mCity = city;
        mState = state;
        mCountry = country;
        mNumber = number;
        mLatitude = latitude;
        mLongitude = longitude;
        mMacAdd = macAdd;
    }

    public String getName(){
        return mName;
    }

    public void setName(String name){
        mName = name;
    }

    public String getAddress(){
        return mAddress;
    }

    public void setAddress(String Address){
        mAddress = Address;
    }

    public String getCity(){
```

Android Studio and plugin updates available
Components: Android Emulator, Android SDK Platform-Tools // Update...

Plugin updates available
Plugin: Kotlin
Update Plugin Settings... Ignore This Update

Database Inspector Profiler TODO Terminal Git
Android Studio and plugin updates available: Components: Android Emulator, Android SDK Platform-Tools // Update... (21 minutes ago)
6:14 LF UTF-8 4 spaces master

```
public String getCity(){
    return mCity;
}

public void setCity(String city){
    mCity = city;
}

public String getState(){
    return mState;
}

public void setState(String state){
    mState = state;
}

public String getCountry(){
    return mCountry;
}

public void setCountry(String country){
    mCountry = country;
}
}

Database Inspector | Profiler | TODO | Terminal | g: Git
io and plugin updates available: Components: Android Emulator, Android SDK Platform-Tools // Update... (21 minutes ago) 105:6 LF UTF-8 4 spaces master
```

```

}

public void setLatitude(String Latitude){
    mLatitude = Latitude;
}

public String getLongitude(){
    return mLongitude;
}

public void setLongitude(String Longitude){
    mLongitude = Longitude;
}

public String getMacAdd(){
    return mMacAdd;
}

public void setMacAdd(String macAdd){
    mMacAdd = macAdd;
}
}

Database Inspector | Profiler | TODO | Terminal | g: Git
dio and plugin updates available: Components: Android Emulator, Android SDK Platform-Tools // Update... (21 minutes ago) 158:1 LF UTF-8 4 spaces master
```

HospitalFragment.java

```
package com.example.covid19.ui.hospital;

import ...

public class HospitalFragment extends Fragment {

    private List<String> purposeList = new ArrayList<>();
    private ArrayAdapter<String> purposeAdapter;
    private Spinner purposeSpinner;
    private ListView listView;
    private ArrayList<String> listItems = new ArrayList<>();
    private ArrayAdapter<String> adapter;
    private String purposeSelected;

    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
                             Bundle savedInstanceState) {
        View root = inflater.inflate(R.layout.fragment_hospital, container,
                                     attachToRoot: false);

        purposeSpinner = root.findViewById(R.id.purpose_spinner);
        listView = root.findViewById(R.id.list_value);

        adapter = new ArrayAdapter<String>(getActivity(), android.R.layout.simple_list_item_1, listItems);
        listView.setAdapter(adapter);

        purposeList.add("Select City...");
        purposeList.add("Nashik");
        purposeList.add("Mumbai");
        purposeList.add("Pune");
        purposeList.add("Nagpur");
        purposeList.add("Ahmednagar");
        purposeAdapter = new ArrayAdapter<String>(getActivity(), android.R.layout.simple_list_item_1, purposeList);
        purposeAdapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
        purposeSpinner.setAdapter(purposeAdapter);
        purposeSpinner.setPrompt("City");

        purposeSpinner.setOnItemSelectedListener(new AdapterView.OnItemSelectedListener() {
            @Override
            public void onItemSelected(AdapterView<?> parent, View view, int position, long id) {
                purposeSelected = parent.getItemAtPosition(position).toString();
                Log.i("tag: \"selected value\", purposeSelected");
                if (purposeSelected.equals("Mumbai")) {
                    adapter.clear();
                    adapter.add("\nBreach Candy Hospital \nAddress: 60 A, Bhulabhai Desai Marg, Breach Candy, Cumballa Hill, Mumbai 400026 \nPhone: 022-23667780\n");
                    adapter.add("\nKing Edward Memorial Hospital \nAddress: Acharya Dadasaheb Bhave Marg, Parl East, Parl, Mumbai 400012 \nPhone: 022-24107000\n");
                    adapter.add("\nLilavati Hospital \nAddress: A-791, Bandra Reclamation Rd, General Arunkumar Vaidya Nagar, Bandra West, Mumbai 400050 \nPhone: 022-24107241\n");
                    adapter.add("\nCooper Hospital \nAddress: U 15, Bhaktivedanta Swami Rd, VPD Scheme, Juhu, Mumbai 400056 \nPhone: 022-26287254\n");
                    adapter.add("\nKokilaben Hospital \nAddress: Rao Saheb, Achut Rao Patwardhan Marg, Four Bungalows, Andheri West, Mumbai 400053 \nPhone: 022-42696969\n");
                } else if (purposeSelected.equals("Pune")) {
                    adapter.clear();
                    adapter.add("\nDeccan Hospital \nAddress: 1160/61, University Rd, Revenue Colony, Shivajinagar, Pune 411005 \nPhone: 020-41095000\n");
                    adapter.add("\nJehangir Hospital \nAddress: 32, Safoor Road Opposite Railway Station, Central Excise Colony, Sangavadi, Pune 411001 \nPhone: 020-66819999\n");
                    adapter.add("\nDeenanath Mangeshkar Hospital \nAddress: Near, Deenanath Mangeshkar Hospital Road, Mhatre Bridge, Erandwane, Pune 411004 \nPhone: 020-48151000\n");
                    adapter.add("\nColumbia Asia Hospital \nAddress: 22, 2A, Mundhwa - Kharadi Rd, Near Nyati Empire, Santipur, Thite Nagar, Kharadi, Pune 411014 \nPhone: 020-61656666\n");
                    adapter.add("\nRanga Hospital \nAddress: 157 / 5, SS Dhage Rd, Mukund Nagar, near Swargate, Pune 411037 \nPhone: 020-24261600\n");
                } else if (purposeSelected.equals("Nashik")) {
                    adapter.clear();
                    adapter.add("\nAshwini Hospital \nAddress: Chowk No 5, Behind Hotel Prakash & Petrol Pump, Mumbai Naka, Govind Nagar, Nashik 422009 \nPhone: 025-32472552\n");
                    adapter.add("\nCitycare Hospital \nAddress: 01, Aditya Jyoti Apartment, Near Nasardi Bridge, Nashik Poona Road, Nashik 422001 \nPhone: 025-32505772\n");
                    adapter.add("\nCitycare Hospital \nAddress: City Center, Opp. Sindhi Colony, Jail Road, Nashik 4212101 \nPhone: 025-32464614\n");
                    adapter.add("\nDeepjyoti Hospital \nAddress: Crown Complex, Sharnapur Road, Opposite Rajiv Gandhi Bhawan, Nashik 422002 \nPhone: 025-36601562\n");
                    adapter.add("\nDr. Bapaye Hospital \nAddress: Old Agre Road, N.D.C.C. Behind the Bank, Nashik 422002 \nPhone: 025-32509421\n");
                } else if (purposeSelected.equals("Nagpur")) {
                    adapter.clear();
                    adapter.add("\nOma Hospital \nAddress: Wardha Road Ramdaspath 3 Farmland Panchsheel Square, Nagpur 440012 \nPhone: 071-26165656\n");
                    adapter.add("\nKRIMS Hospital \nAddress: 275, Central Bazar Road, New Ramdaspath, Ramdaspath, Nagpur 440010 \nPhone: 071-22451188\n");
                    adapter.add("\nKeshavnagar Hospital \nAddress: 1643 North Ambari Road Daga College, beside Lady Amritbai, Shankar Nagar, Nagpur 440015 \nPhone: 071-22536489\n");
                    adapter.add("\nKhamla Road Veer Swarnkar Square Opposite to Jupiter College, Nagpur 440015 \nPhone: 071-22536489\n");
                    adapter.add("\nLata Mangeshkar Hospital \nAddress: YMCA Complex, Maharajbagh Rd, Sitabuldi, Nagpur 440012 \nPhone: 071-22536489\n");
                } else if (purposeSelected.equals("Ahmednagar")) {
                    adapter.clear();
                    adapter.add("\nAnandnandishiji Hospital \nAddress: 124, Kothi - Yash Palace Rd, beside Maniknagar, Maniknagar, Ahmednagar 414001 \nPhone: 020-26165656\n");
                }
            }
        });
    }
}
```

```
purposeSpinner.setOnItemSelectedListener(new AdapterView.OnItemSelectedListener() {
    @Override
    public void onItemSelected(AdapterView<?> parent, View view, int position, long id) {
        purposeSelected = parent.getItemAtPosition(position).toString();
        Log.i("tag: \"selected value\", purposeSelected");
        if (purposeSelected.equals("Mumbai")) {
            adapter.clear();
            adapter.add("\nBreach Candy Hospital \nAddress: 60 A, Bhulabhai Desai Marg, Breach Candy, Cumballa Hill, Mumbai 400026 \nPhone: 022-23667780\n");
            adapter.add("\nKing Edward Memorial Hospital \nAddress: Acharya Dadasaheb Bhave Marg, Parl East, Parl, Mumbai 400012 \nPhone: 022-24107000\n");
            adapter.add("\nLilavati Hospital \nAddress: A-791, Bandra Reclamation Rd, General Arunkumar Vaidya Nagar, Bandra West, Mumbai 400050 \nPhone: 022-24107241\n");
            adapter.add("\nCooper Hospital \nAddress: U 15, Bhaktivedanta Swami Rd, VPD Scheme, Juhu, Mumbai 400056 \nPhone: 022-26287254\n");
            adapter.add("\nKokilaben Hospital \nAddress: Rao Saheb, Achut Rao Patwardhan Marg, Four Bungalows, Andheri West, Mumbai 400053 \nPhone: 022-42696969\n");
        } else if (purposeSelected.equals("Pune")) {
            adapter.clear();
            adapter.add("\nDeccan Hospital \nAddress: 1160/61, University Rd, Revenue Colony, Shivajinagar, Pune 411005 \nPhone: 020-41095000\n");
            adapter.add("\nJehangir Hospital \nAddress: 32, Safoor Road Opposite Railway Station, Central Excise Colony, Sangavadi, Pune 411001 \nPhone: 020-66819999\n");
            adapter.add("\nDeenanath Mangeshkar Hospital \nAddress: Near, Deenanath Mangeshkar Hospital Road, Mhatre Bridge, Erandwane, Pune 411004 \nPhone: 020-48151000\n");
            adapter.add("\nColumbia Asia Hospital \nAddress: 22, 2A, Mundhwa - Kharadi Rd, Near Nyati Empire, Santipur, Thite Nagar, Kharadi, Pune 411014 \nPhone: 020-61656666\n");
            adapter.add("\nRanga Hospital \nAddress: 157 / 5, SS Dhage Rd, Mukund Nagar, near Swargate, Pune 411037 \nPhone: 020-24261600\n");
        } else if (purposeSelected.equals("Nashik")) {
            adapter.clear();
            adapter.add("\nAshwini Hospital \nAddress: Chowk No 5, Behind Hotel Prakash & Petrol Pump, Mumbai Naka, Govind Nagar, Nashik 422009 \nPhone: 025-32472552\n");
            adapter.add("\nCitycare Hospital \nAddress: 01, Aditya Jyoti Apartment, Near Nasardi Bridge, Nashik Poona Road, Nashik 422001 \nPhone: 025-32505772\n");
            adapter.add("\nCitycare Hospital \nAddress: City Center, Opp. Sindhi Colony, Jail Road, Nashik 4212101 \nPhone: 025-32464614\n");
            adapter.add("\nDeepjyoti Hospital \nAddress: Crown Complex, Sharnapur Road, Opposite Rajiv Gandhi Bhawan, Nashik 422002 \nPhone: 025-36601562\n");
            adapter.add("\nDr. Bapaye Hospital \nAddress: Old Agre Road, N.D.C.C. Behind the Bank, Nashik 422002 \nPhone: 025-32509421\n");
        } else if (purposeSelected.equals("Nagpur")) {
            adapter.clear();
            adapter.add("\nOma Hospital \nAddress: Wardha Road Ramdaspath 3 Farmland Panchsheel Square, Nagpur 440012 \nPhone: 071-26165656\n");
            adapter.add("\nKRIMS Hospital \nAddress: 275, Central Bazar Road, New Ramdaspath, Ramdaspath, Nagpur 440010 \nPhone: 071-22451188\n");
            adapter.add("\nKeshavnagar Hospital \nAddress: 1643 North Ambari Road Daga College, beside Lady Amritbai, Shankar Nagar, Nagpur 440015 \nPhone: 071-22536489\n");
            adapter.add("\nKhamla Road Veer Swarnkar Square Opposite to Jupiter College, Nagpur 440015 \nPhone: 071-22536489\n");
            adapter.add("\nLata Mangeshkar Hospital \nAddress: YMCA Complex, Maharajbagh Rd, Sitabuldi, Nagpur 440012 \nPhone: 071-22536489\n");
        } else if (purposeSelected.equals("Ahmednagar")) {
            adapter.clear();
            adapter.add("\nAnandnandishiji Hospital \nAddress: 124, Kothi - Yash Palace Rd, beside Maniknagar, Maniknagar, Ahmednagar 414001 \nPhone: 020-26165656\n");
        }
    }
});
```

```

adapter.add("\nCiticare Hospital \nAddress: 01, Aditya Jyoti Apartment, Near Nacandi Bridge, Nashik Poona Road, Nashik 422001 \nPhone: 025-32505772\n");
adapter.add("\nCriticare Hospital \nAddress: City Center, Opp. Sindhi Colony, Jail Road, Nashik 4212101 \nPhone: 025-32464614\n");
adapter.add("\nDeepjyoti Hospital \nAddress: Crown Complex, Sharanpur Road, Opposite Rajiv Gandhi Bhawan, Nashik 422002 \nPhone: 025-36601562\n");
adapter.add("\nDr. Bapaye Hospital \nAddress: Old Agra Road, N.D.C.C. Behind the Bank, Nashik 422002 \nPhone: 025-32509421\n");
} else if(purposeSelected.equals("Nagpur")){
    adapter.clear();
    adapter.add("\nOma Hospital \nAddress: Wardha Road Ramdaspath 3 Farmland Panchsheel Square, Nagpur 440012 \nPhone: 071-26165656\n");
    adapter.add("\nKRIMS Hospital \nAddress: 275, Central Bazar Road, New Ramdaspath, Ramdaspath, Nagpur 440010 \nPhone: 071-22451188\n");
    adapter.add("\nKockhard Hospital \nAddress: 1643 North Ambazari Road Daga College, beside Lady Amritbai, Shankar Nagar, Nagpur 440033 \nPhone: 8605604444\n");
    adapter.add("\nOrange City Hospital \nAddress: 10, Khawla Road Veer Sawarkar Square Opposite to Jupiter College, Nagpur 440015 \nPhone: 9225260606\n");
    adapter.add("\nLata Mangeshkar Hospital \nAddress: YMCA Complex, Maharaibagh Rd, Sitabuldi, Nagpur 440012 \nPhone: 071-22536409\n");
} else if(purposeSelected.equals("Ahmednagar")){
    adapter.clear();
    adapter.add("\nAnandrishii Hospital \nAddress: 124, Kothi - Yash Palace Rd, beside Maniknagar, Maniknagar, Ahmednagar 414001 \nPhone: 024-12320474\n");
    adapter.add("\nAsian Noble Hospital \nAddress: Shirdi Manmad Road, Chowk, opp. Premdan, Savedi, Ahmednagar 414003 \nPhone: 024-12421290\n");
    adapter.add("\nKhaliker Hospital \nAddress: Station Road, Sattha Colony, Near Patel Hospital, Ahmednagar 414001 \nPhone: 024-12452395\n");
    adapter.add("\nSaideep Hospital \nAddress: Viraj Estate, Ahmednagar 414003 \nPhone: 6262900900\n");
    adapter.add("\nAnbhule Hospital \nAddress: Premdan Chowk, Savedi Rd, Ahmednagar 414003 \nPhone: 024-12426092\n");
} else {
    adapter.clear();
}
}

@Override
public void onNothingSelected(AdapterView? parent) {
}

});

return root;
}

```

PhotoFragment.java

```

package com.example.covid19.ui.photo;

import ...

public class PhotoFragment extends Fragment {

    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
        Bundle savedInstanceState) {
        View root = inflater.inflate(R.layout.fragment_photo, container, attachToRoot: false);

        return root;
    }
}

```


SymptomsFragment.java

```
package com.example.covid19.ui.symptoms;

import androidx.appcompat.app.AppCompatActivity;

public class SymptomsFragment extends Fragment {

    private ImageView photoView;
    private Button resetPhotoButton;
    private EditText nameEditText;
    private EditText emailEditText;
    private EditText numberEditText;
    private Button checkInButton;
    private Button resetButton;

    private static final int MY_CAMERA_PERMISSION_CODE = 100;
    private static final int CAMERA_REQUEST = 1888;

    private Upload upload;
    private DatabaseReference mDatabaseRef;
    private StorageReference mStorageRef;
    private String downloadURLPhoto;
    private Uri ImageURL;

    //private Session session;
    private ProgressDialog progressDialog;

    private ArrayList<String> names = new ArrayList<>();

    private int enterKey=0;

    private String latitude, longitude;

    //private Paragraph p3;
    protected LocationManager locationManager;

    private TextView viewSiteId;

    private CheckBox fever;
    private CheckBox fatigue;
    private CheckBox sore_throat;
    private CheckBox dry_cough;
    private CheckBox joint_muscle_pain;
    private CheckBox shortness_of_breath;
    private CheckBox lack_of_hunger;
    private EditText anyOther;
    private Button submitButton;

    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
                             Bundle savedInstanceState) {
        // Inflate the layout for this fragment
        View root = inflater.inflate(R.layout.fragment_symptoms, container, attachToRoot false);

        photoView = (ImageView) root.findViewById(R.id.photoView);
        resetPhotoButton = (Button) root.findViewById(R.id.resetPhotoButton);
        nameEditText = (EditText) root.findViewById(R.id.nameEditText);
        emailEditText = (EditText) root.findViewById(R.id.emailEditText);
        numberEditText = (EditText) root.findViewById(R.id.numberEditText);
        fever = (CheckBox) root.findViewById(R.id.fever);
        fatigue = (CheckBox) root.findViewById(R.id.fatigue);
        sore_throat = (CheckBox) root.findViewById(R.id.sore_throat);
        dry_cough = (CheckBox) root.findViewById(R.id.dry_cough);
        joint_muscle_pain = (CheckBox) root.findViewById(R.id.joint_muscle_pain);
        shortness_of_breath = (CheckBox) root.findViewById(R.id.shortness_of_breath);
        lack_of_hunger = (CheckBox) root.findViewById(R.id.lack_of_hunger);
        anyOther = (EditText) root.findViewById(R.id.anyOther);

        submitButton = (Button) root.findViewById(R.id.submitButton);

        isStoragePermissionGranted();
    }
}
```

```
isStoragePermissionGranted();
getLocation();

photoView.setOnClickListener((v) -> {
    if (getActivity().checkSelfPermission(Manifest.permission.CAMERA) != PackageManager.PERMISSION_GRANTED) {
        requestPermissions(new String[]{Manifest.permission.CAMERA}, MY_CAMERA_PERMISSION_CODE);
    } else {
        Intent cameraIntent = new Intent(android.provider.MediaStore.ACTION_IMAGE_CAPTURE);
        startActivityForResult(cameraIntent, CAMERA_REQUEST);
    }
});

resetPhotoButton.setOnClickListener((view) -> {
    photoView.setImageResource(R.drawable.ic_camera_alt_black_24dp);
});

submitButton.setOnClickListener((view) -> {
    if (fieldEntry()) {
        StringBuffer result = new StringBuffer();
        if (fever.isChecked()) {
            result.append("Fever,");
        }
        if (fatigue.isChecked()) {
            result.append("Fatigue,");
        }
        if (sore_throat.isChecked()) {
            result.append("Sore Throat,");
        }
        if (dry_cough.isChecked()) {
            result.append("Dry Cough,");
        }
        if (joint_muscle_pain.isChecked()) {
            result.append("Joint Muscle Pain,");
        }
        if (sore_throat.isChecked()) {
            result.append("Sore Throat,");
        }
    }
});

Database Inspector | Profiler | TODO | Terminal | G: GR
and plugin updates available: Components: Android Emulator, Android SDK Platform-Tools // Update... (27 minutes ago)
158:14 LF UTF-8 4 spaces master
```

```
if (shortness_of_breath.isChecked()) {
    result.append("Shortness Of Breath,");
}
if (lack_of_hunger.isChecked()) {
    result.append("Lack Of Hunger,");
}
if (!TextUtils.isEmpty(anyOther.getText().toString().trim())) {
    result.append(anyOther.getText().toString().trim());
}

DateFormat dateFormat = new SimpleDateFormat("yyyy/MM/dd HH:mm:ss");
Date date = new Date();

mDatabaseRef = FirebaseDatabase.getInstance().getReference("Symptoms");

upload = new Upload(emailEditText.getText().toString().trim(), nameEditText.getText().toString().trim(), imageUrl.toString(), numberEditText.getText().toString().trim(), result.toString(), date.toString());

String uploadID = mDatabaseRef.push().getKey();

mDatabaseRef.child(uploadID).setValue(upload);

nameEditText.setText("");
emailEditText.setText("");
numberEditText.setText("");
photoView.setImageResource(R.drawable.ic_camera_alt_black_24dp);
anyOther.setText("");
Toast.makeText(getActivity(), "Submitted", Toast.LENGTH_LONG).show();
});

return root;

private void requestPermissions() {
    ActivityCompat.requestPermissions(
        getActivity(),
        Database Inspector | Profiler | TODO | Terminal | G: GR
plugin updates available: Components: Android Emulator, Android SDK Platform-Tools // Update... (27 minutes ago)
196:14 LF UTF-8 4 spaces master
```



```

private void requestPermissions() {
    ActivityCompat.requestPermissions(
        getActivity(),
        new String[]{Manifest.permission.ACCESS_COARSE_LOCATION, Manifest.permission.ACCESS_FINE_LOCATION},
        requestCode);
}

private boolean fieldEntry() {
    if(TextUtils.isEmpty(nameEditText.getText().toString().trim())){
        Toast.makeText(getActivity(), text: "Enter Name", Toast.LENGTH_SHORT).show();
        return false;
    }else if(TextUtils.isEmpty(emailEditText.getText().toString().trim())){
        Toast.makeText(getActivity(), text: "Enter a Email ID", Toast.LENGTH_SHORT).show();
        return false;
    }else if(TextUtils.isEmpty(numberEditText.getText().toString().trim())){
        Toast.makeText(getActivity(), text: "Enter the Phone Number", Toast.LENGTH_SHORT).show();
        return false;
    }else if(TextUtils.isEmpty(imageUrl.toString())){
        Toast.makeText(getActivity(), text: "Click a Photo", Toast.LENGTH_SHORT).show();
        return false;
    }
    return true;
}

private void getLoc() {
    locationManager = (LocationManager) getActivity().getSystemService(Context.LOCATION_SERVICE);
    if (ActivityCompat.checkSelfPermission(getActivity().getApplicationContext(), Manifest.permission.ACCESS_FINE_LOCATION) != PackageManager.PERMISSION_GRANTED && ActivityCompat.checkSelfPermission(
        requestPermissions();
        return;
    }
    final Location loc = locationManager.getLastKnownLocation(LocationManager.GPS_PROVIDER);
    final LocationListener locationListener = new LocationListener() {
        @Override
        public void onLocationChanged(final Location location) {

```

Upload.java

```
package com.example.covid19.ui.symptoms;
```

```
public class Upload {
```

```

    private String mName;
    private String mImageUrl;
    private String mphoneNumber;
    private String mEmailID;
    private String mDate;
    private String mSymptoms;
    private String mLatitude;
    private String mLongitude;
    public Upload() {

```

```

    }

```

```

    public Upload(String emailID, String name, String imageUrl, String
phoneNumber, String symptoms, String date, String latitude, String longitude)
{

```

```

        if (name.trim().equals("") || phoneNumber.trim().equals("") ||
symptoms.trim().equals("") ) {
            name = "No Name";
            emailID="No Email ID";
            phoneNumber = "No phone Number";
            imageUrl="No image";

```

```

        symptoms="No symptoms";
        date = "No Date";

    }

    mEmailID = emailID;
    mname = name;
    mImageUrl = imageUrl;
    mphoneNumber = phoneNumber;
    mDate = date;
    mLatitude = latitude;
    mLongitude = longitude;
    mSymptoms = symptoms;

}

public String getLatitude(){

    return mLatitude;

}

public void setLatitude(String Latitude){

    mLatitude = Latitude;

}

public String getLongitude(){

    return mLongitude;

}

public void setLongitude(String Longitude){

    mLongitude = Longitude;

}

public String getSymptoms(){

    return mSymptoms;

}

public void setsymptoms(String symptoms){

    mSymptoms = symptoms;

}

public String getEmailid(){

    return mEmailID;

```

```

    }

    public void setEmailid(String emailId){

        mEmailID = emailId;

    }

    public String getDate(){

        return mDate;

    }

    public void setDate(String date){

        mDate = date;

    }

    public String getName(){

        return mname;

    }

    public void setName(String name){

        mname = name;

    }

    public String getImageUrl(){

        return mImageUrl;

    }

    public void setImageUrl(String imageUrl){

        mImageUrl = imageUrl;

    }

    public String getPhoneNumber(){

        return mphoneNumber;

    }

    public void setPhoneNumber(String PhoneNumber){

        mphoneNumber= PhoneNumber;

    }

```

```
}
```

TrackFramgment.java

```
package com.example.covid19.ui.trackCorona;

import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.Button;
import android.widget.ImageView;
import android.widget.TextView;

import androidx.annotation.NonNull;
import androidx.fragment.app.Fragment;

import com.example.covid19.R;

public class trackCoronaFragment extends Fragment {

    public View onCreateView(@NonNull LayoutInflater inflater, ViewGroup
container, Bundle savedInstanceState) {
        View root = inflater.inflate(R.layout.fragment_trackcorona, container,
false);

        Button viewButton;
        ImageView viewPhotoTrack;

        viewButton = (Button) root.findViewById(R.id.viewButton);

        viewButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent browserIntent = new Intent(Intent.ACTION_VIEW,
Uri.parse("https://www.trackcorona.live/map"));
                startActivity(browserIntent);
            }
        });

        viewPhotoTrack = root.findViewById(R.id.viewPhotoTrack);
        viewPhotoTrack.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent browserIntent = new Intent(Intent.ACTION_VIEW,
Uri.parse("https://www.trackcorona.live/map"));
                startActivity(browserIntent);
            }
        });

        return root;
    }
}
```

```
1
```

VideoFragment.java

```
package com.example.covid19.ui.video;

import android.annotation.SuppressLint;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.webkit.WebSettings;
import android.webkit.WebView;
import android.widget.TextView;

import androidx.annotation.NonNull;
import androidx.fragment.app.Fragment;

import com.example.covid19.R;

public class VideoFragment extends Fragment {

    @SuppressLint("SetJavaScriptEnabled")
    public View onCreateView(@NonNull LayoutInflater inflater, ViewGroup
container, Bundle savedInstanceState) {

        View root = inflater.inflate(R.layout.fragment_video, container,
false);

        String frameVideo = "<html><body
style='margin:0;padding:0;'><br><iframe
width=\"365\" height=\"250\"
src=\"https://www.youtube.com/embed/g0XDL5Kh6RE\"
frameborder=\"-5\"
allow=\"accelerometer; autoplay; encrypted-media; gyroscope;
picture-in-picture\" allowfullscreen></iframe></body></html>";
        WebView displayYoutubeVideo = (WebView)
root.findViewById(R.id.videoView);
        WebSettings webSettings = displayYoutubeVideo.getSettings();
        webSettings.setDomStorageEnabled(true);
        webSettings.setJavaScriptEnabled(true);
        displayYoutubeVideo.loadData(frameVideo, "text/html", "utf-8");

        String frameVideo1 = "<html><body
style='margin:0;padding:0;'><br><iframe
width=\"365\" height=\"250\"
src=\"https://www.youtube.com/embed/bPITHEiFWLc\"
frameborder=\"0\"
allow=\"accelerometer; autoplay; encrypted-media; gyroscope;
picture-in-picture\" allowfullscreen></iframe></body></html>";
        WebView displayYoutubeVideo1 = (WebView)
root.findViewById(R.id.videoView1);
        WebSettings webSettings1 = displayYoutubeVideo1.getSettings();
        webSettings1.setDomStorageEnabled(true);
        webSettings1.setJavaScriptEnabled(true);
        displayYoutubeVideo1.loadData(frameVideo1, "text/html", "utf-8");
```

```

        String frameVideo2 = "<html><body
style='margin:0;padding:0;'><br><iframe width=\"365\" height=\"250\"
src=\"https://www.youtube.com/embed/6Ooz1GZsQ70\" frameborder=\"0\"
allow=\"accelerometer; autoplay; encrypted-media; gyroscope;
picture-in-picture\" allowfullscreen></iframe></body></html>";
        WebView displayYoutubeVideo2 = (WebView)
root.findViewById(R.id.videoView2);
        WebSettings webSettings2 = displayYoutubeVideo2.getSettings();
        webSettings2.setDomStorageEnabled(true);
        webSettings2.setJavaScriptEnabled(true);
        displayYoutubeVideo2.loadData(frameVideo2, "text/html", "utf-8");

        String frameVideo3 = "<html><body
style='margin:0;padding:0;'><br><iframe width=\"365\" height=\"250\"
src=\"https://www.youtube.com/embed/qF42qZVm1Bo\" frameborder=\"0\"
allow=\"accelerometer; autoplay; encrypted-media; gyroscope;
picture-in-picture\" allowfullscreen></iframe></body></html>";
        WebView displayYoutubeVideo3 = (WebView)
root.findViewById(R.id.videoView3);
        WebSettings webSettings3 = displayYoutubeVideo3.getSettings();
        webSettings3.setDomStorageEnabled(true);
        webSettings3.setJavaScriptEnabled(true);
        displayYoutubeVideo3.loadData(frameVideo3, "text/html", "utf-8");

        return root;
    }
}

```

5. OUTPUTS

7:51



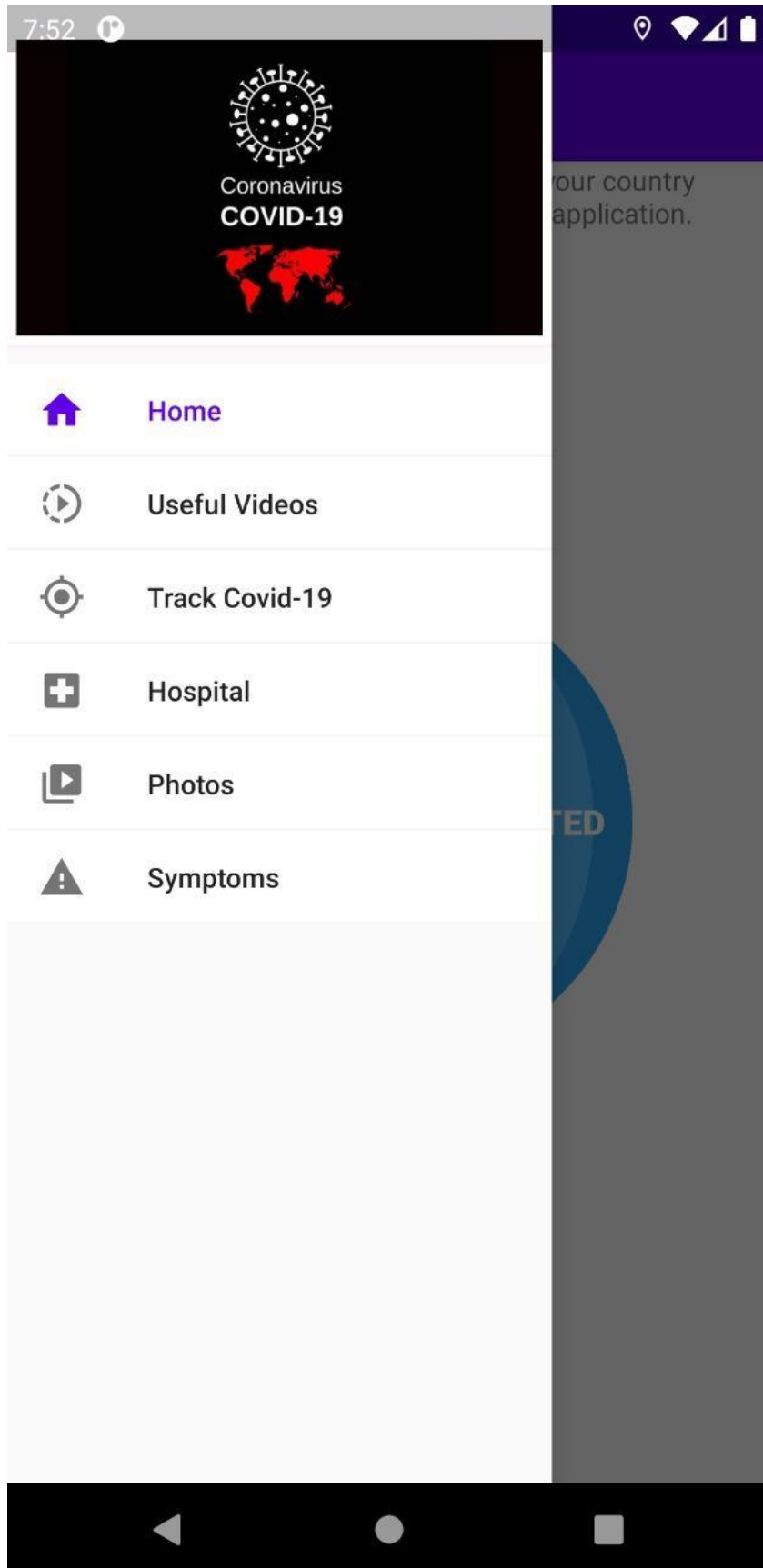
Home

Before using the application, check if your country regulations/laws allow the use of this application.



TAP IF YOU ARE INFECTED

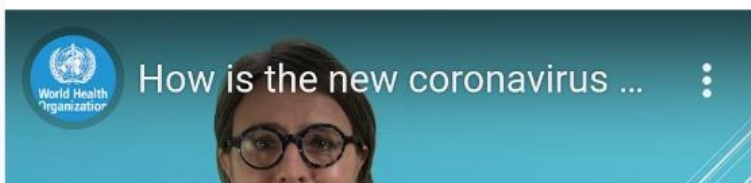




7:52



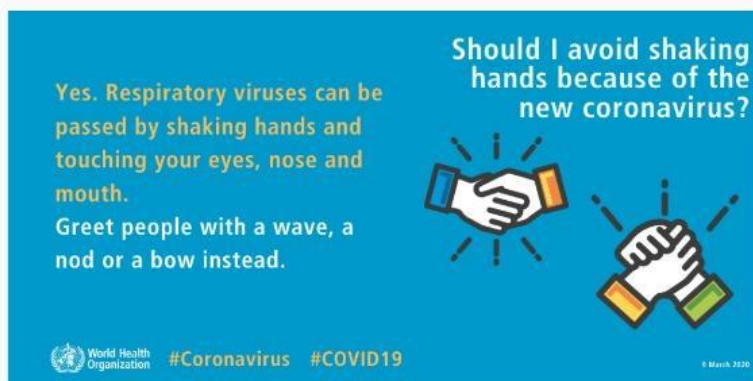
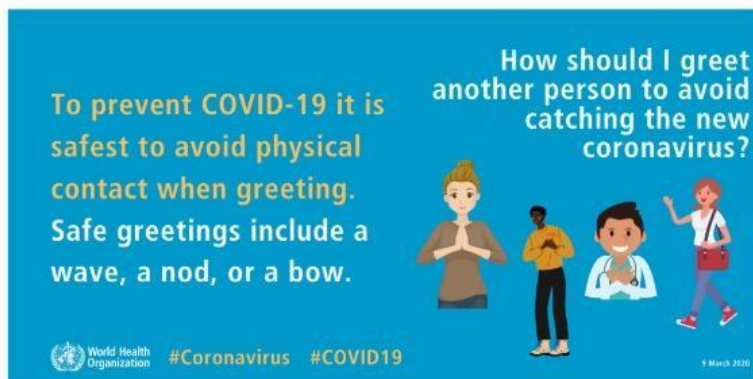
Useful Videos

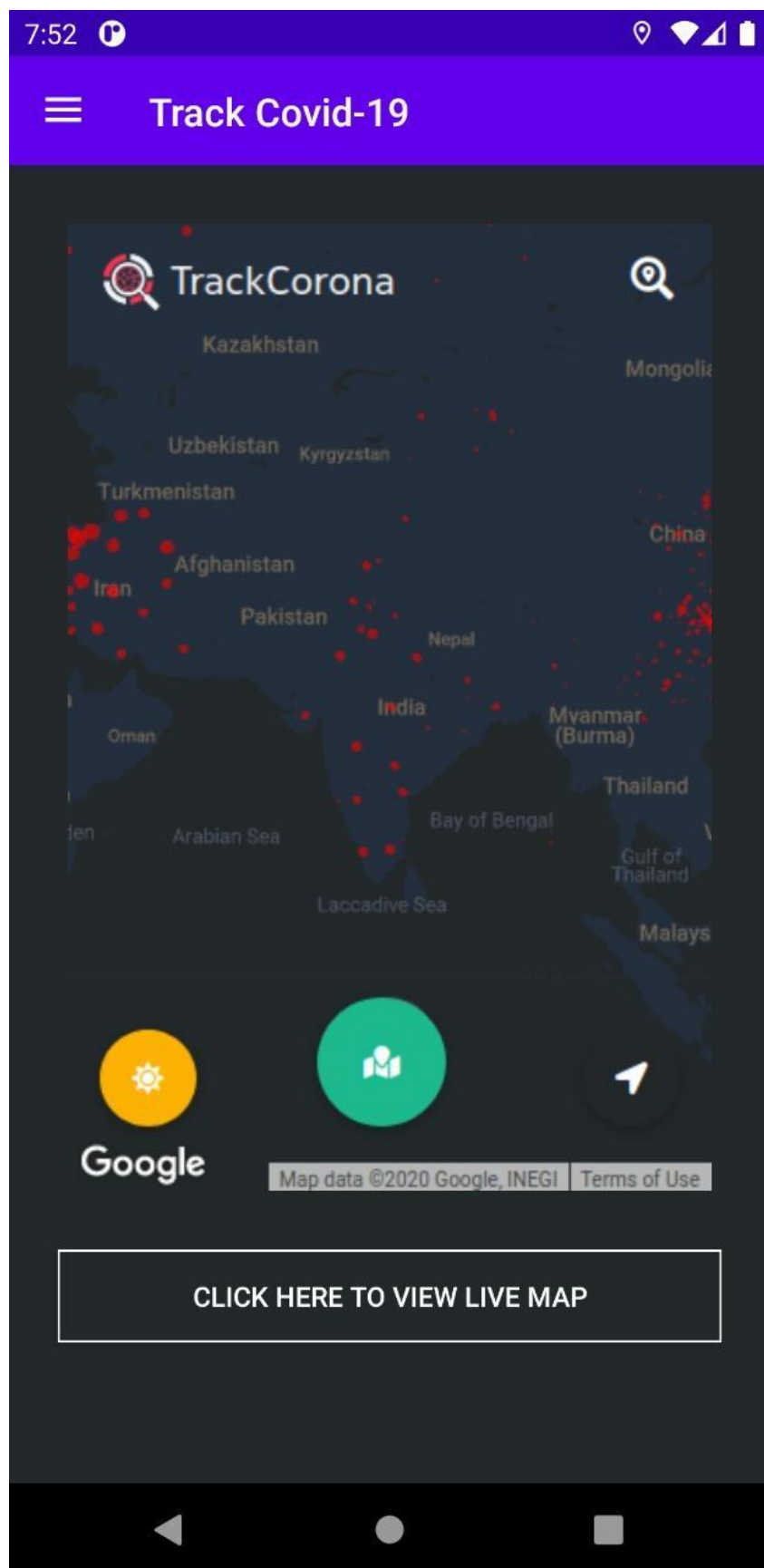


7:53



Photos





7:53



Hospitals

Pune



Deccan Hospital

Address: 1160/61, University Rd, Revenue Colony, Shivajinagar, Pune 411005
Phone: 020-41095000

Jehangir Hospital

Address: 32, Sasoon Road Opposite Railway Station, Central Excise Colony, Sangamvadi, Pune 411001
Phone: 020-66819999

Deenanath Mangeshkar Hospital

Address: Near, Deenanath Mangeshkar Hospital Road, Mhatre Bridge, Erandwane, Pune 411004
Phone: 020-40151000

Columbia Asia Hospital

Address: 22, 2A, Mundhwa - Kharadi Rd, Near Nyati Empire, Santipur, Thite Nagar, Kharadi, Pune 411014
Phone: 020-61656666

Ranka Hospital

Address: 157 / 5, SS Dhage Rd, Mukund Nagar,



7:53



Symptoms

Symptoms Details



RESET PHOTO

Name

Email

code

+ 91

Phone Number

Symptoms

- ☐ Fever
- ☐ Fatigue
- ☐ Sore Throat
- ☐ Dry Cough
- ☐ Joint/Muscle Pain

7:51



Home

Please Fill Out The Form

First Name

Last Name

Address

City

State/Region

Country

Phone Number

SUBMIT





Thank You

Local Administration will get in touch with
you shortly

OKAY



6. REFERENCES

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