

GEETHANJALI INSTITUTE OF SCIENCE AND TECHNOLOGY

A

Project Report

On

“Smart Andhra App”

For the course

Android App Development

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Introduction

The “Smart Andhra App” is used to help the people to register the problems in their locality in online instead of going to the nearby Government Organization.

In this app people have to register with their phone number and have to register their complaints. After registering their complaints this app will display a page showing their registration is successful.

The Government officials can login to this app with their registered email id and password and can see the list of complaints.

This app helps the people to save time by registering their complaints online instead of going to the government organizations in these tough covid times.

Development Tools

1. We use “Android Studio” as an Integrated Development Environment (IDE) for Android Development.
2. We use xml for layout.
3. Languages: xml, Java.

System Requirements

- Any android mobile device having minimum SDK version API 21: Android 5.0 (Lollipop)

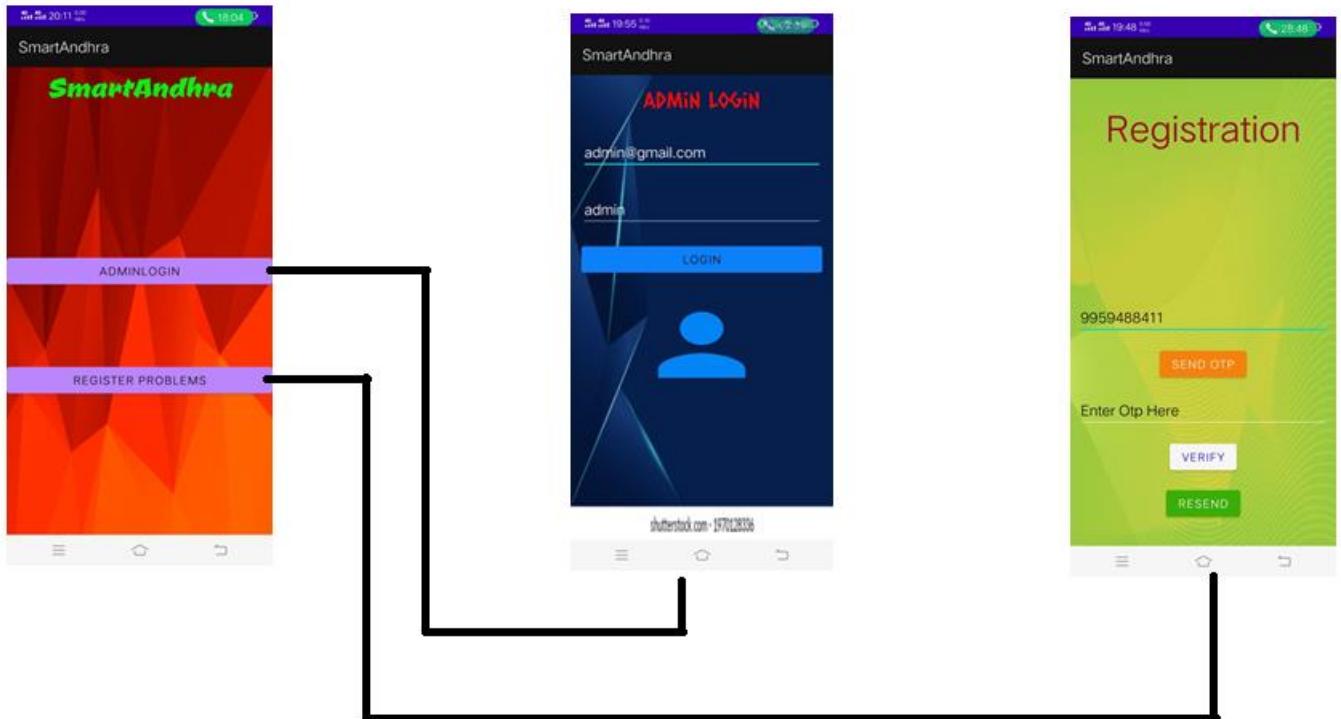
List of Modules:

- Authentication
- Beautiful UI
- Fragments
- Firebase Database
- Recycler View

Design and Components

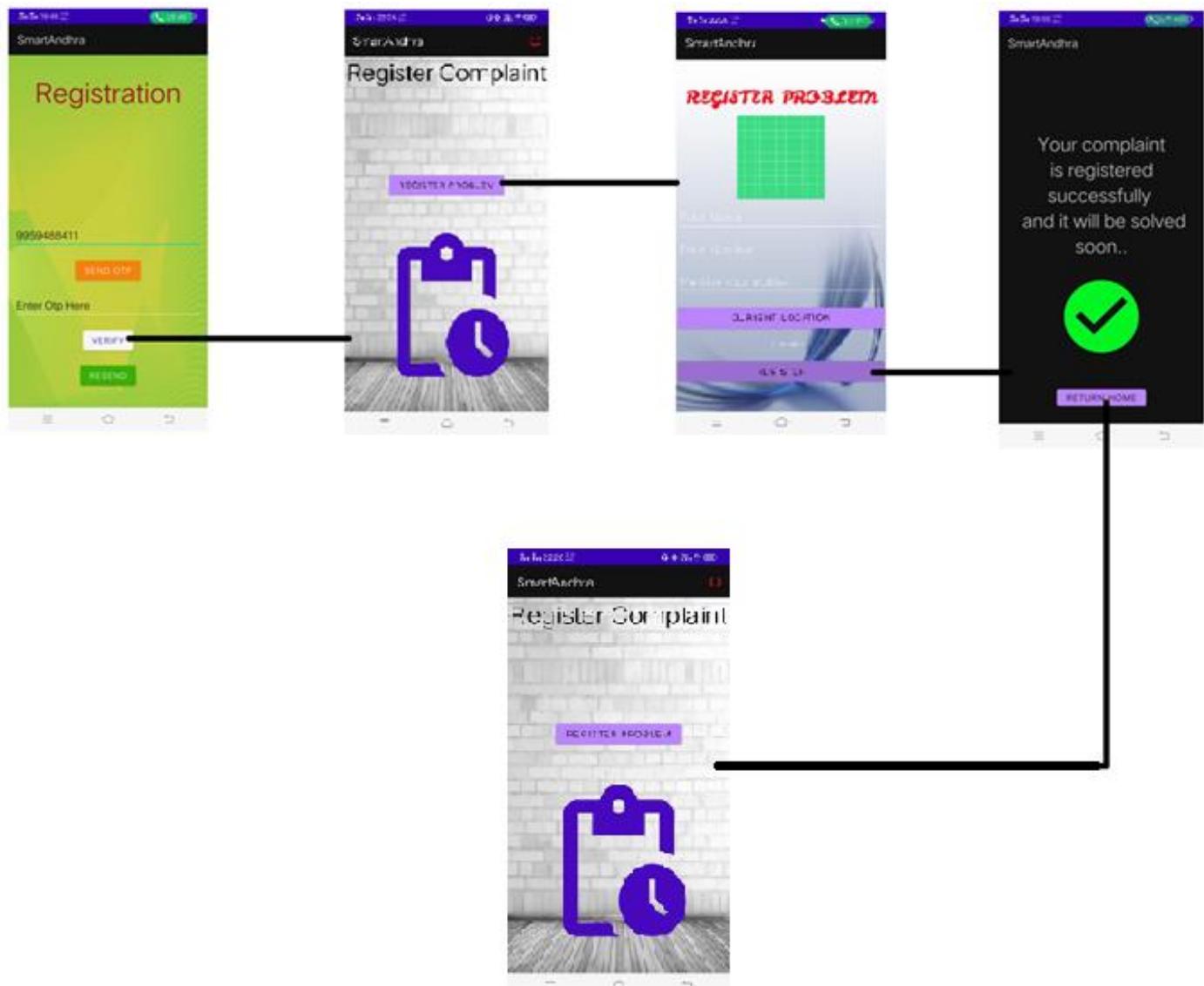
Main Screen

Main screen contains two buttons which starts intent two other fragments called Admin login and Register.



From registration to completion

Register authenticates your phone number and takes you to the fragment Register problem which again takes you to the fragment Your problem after successful registration it will redirect you to Register problem.



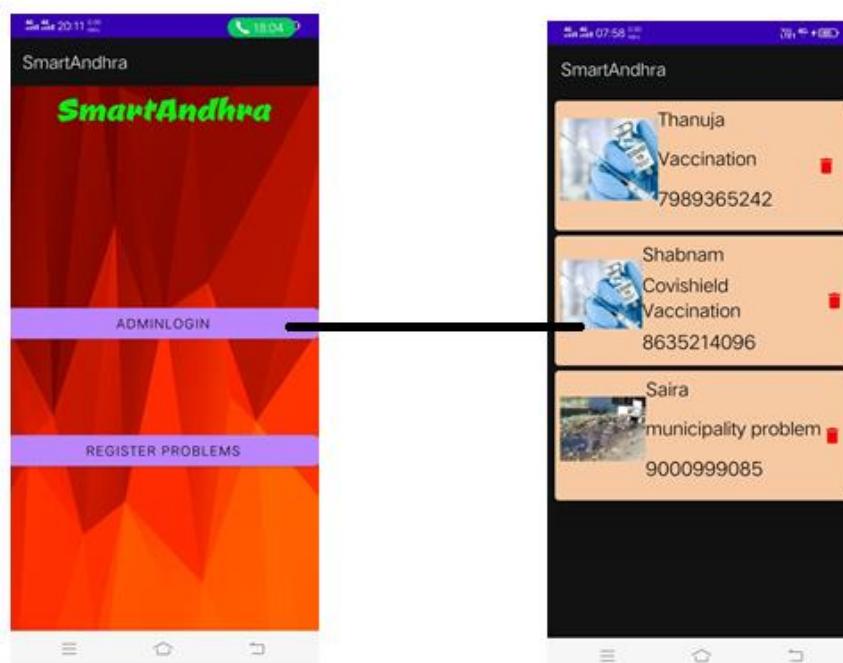
Logout

Logout makes you to move back to the Main screen.



Admin Login

Admin login takes to the fragment that fetches data from the database.



Features

- Security Login – Logout
- Inexpensive
- User friendly
- Easy to Register Complaints
- Fetches data from firebase easily
- Secure Admin login

Conclusion

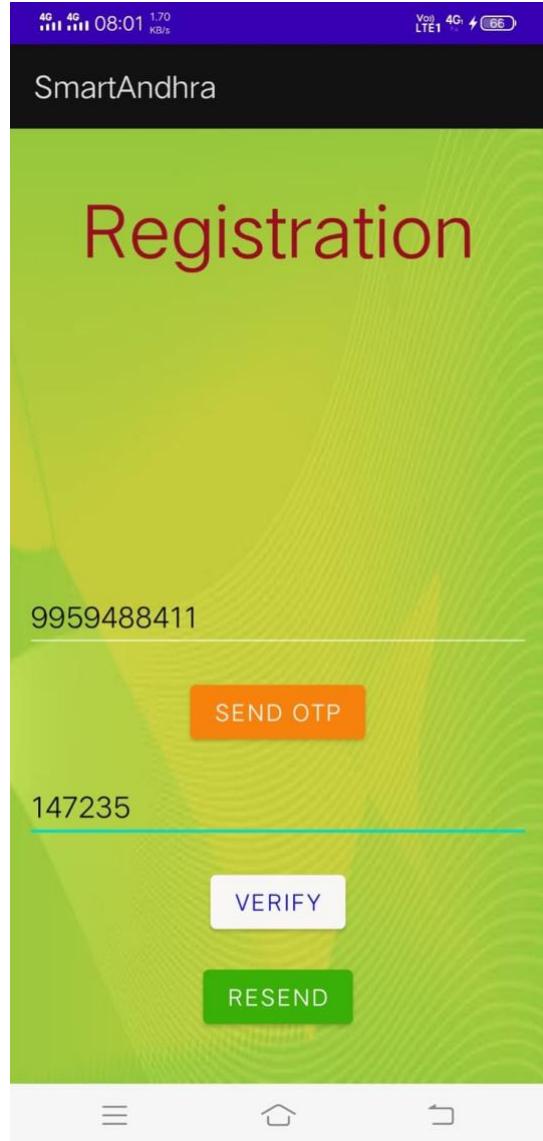
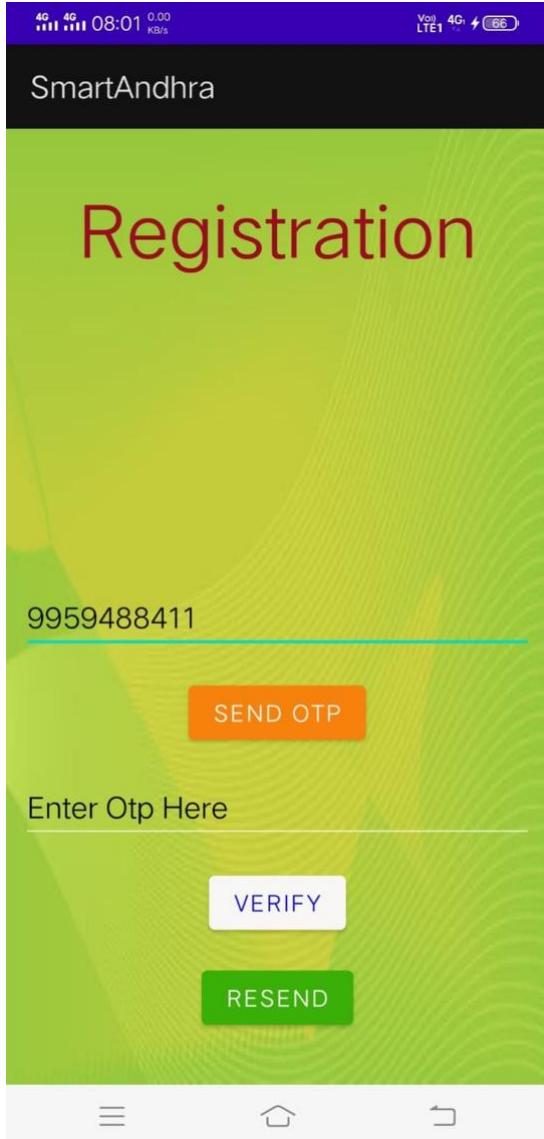
It is the software which helps people to register the complaints via online just by authenticating and registering complaints and admins can also easily identify the problems in their locality and solve them. The user interface is very friendly and can be easily understand by anyone.

Snapshots:



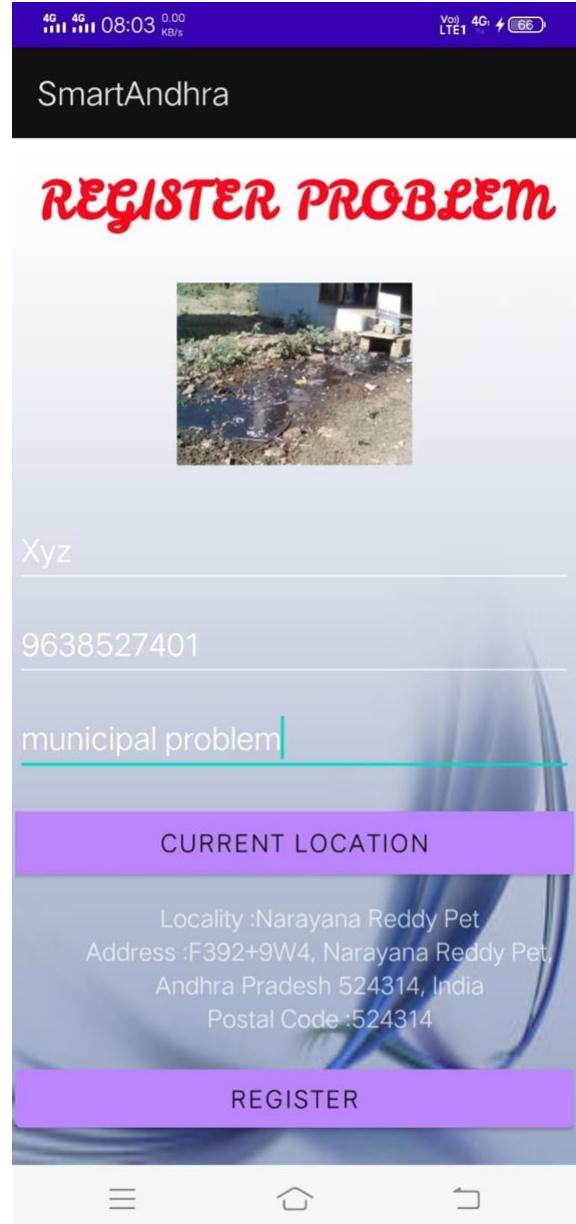
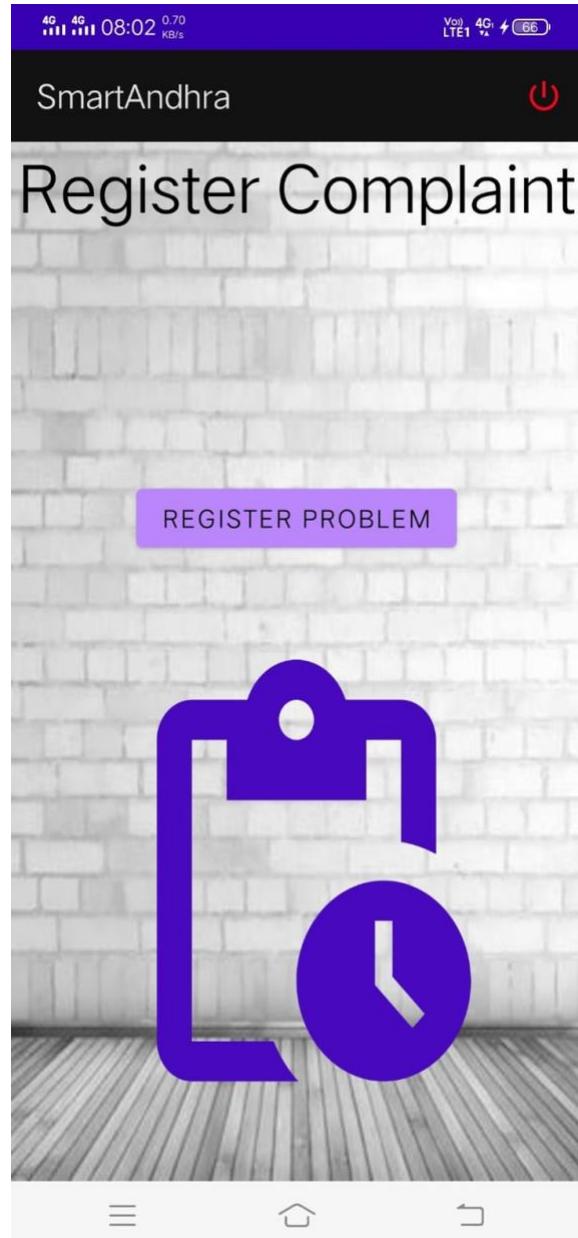
FIG_1 : Home Page

FIG_2 : Login Page



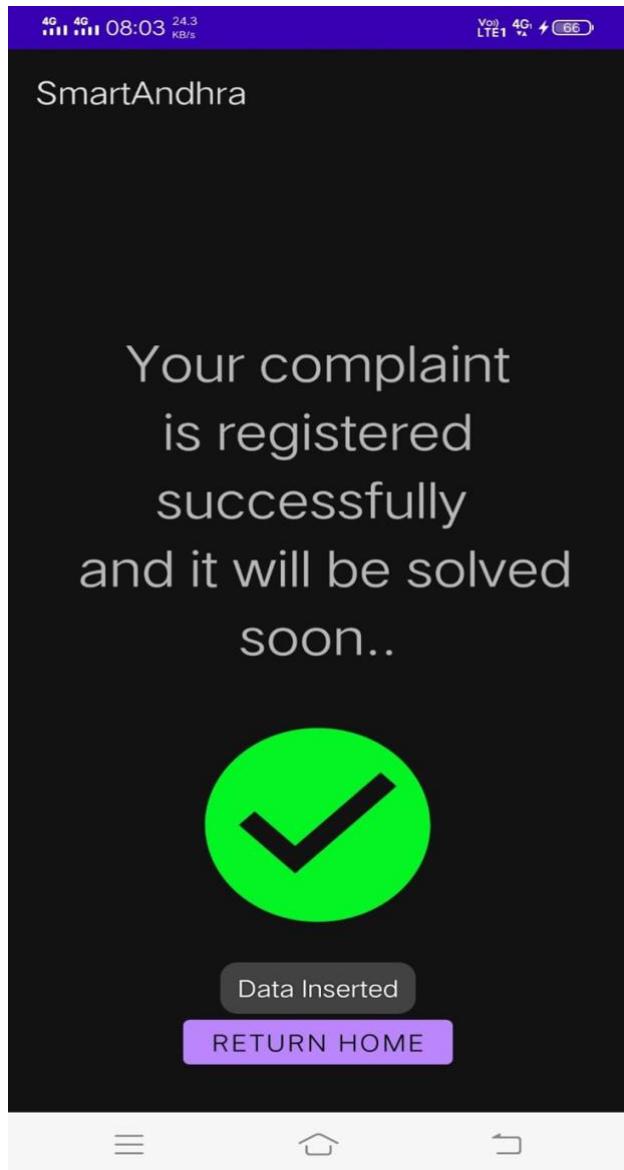
FIG_3 : Register Your Number

FIG_4 : Get OTP and verify



FIG_5 : Register Problem

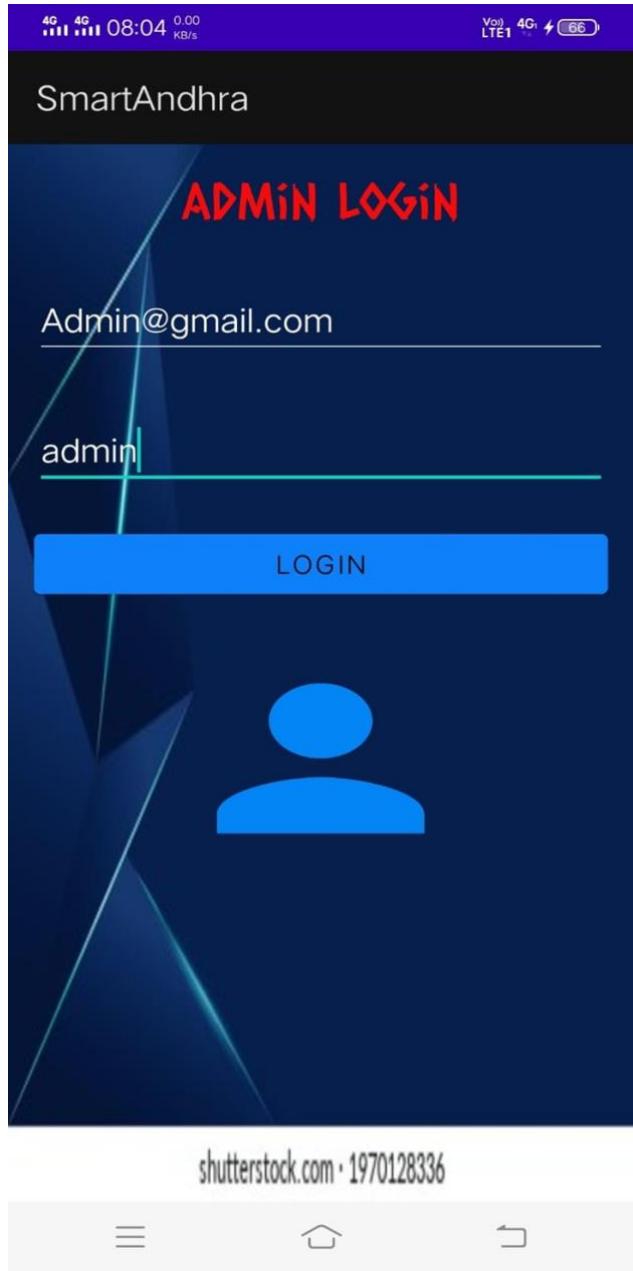
FIG_6 : Fill the details, turn on location



FIG_7 : Registration Completed

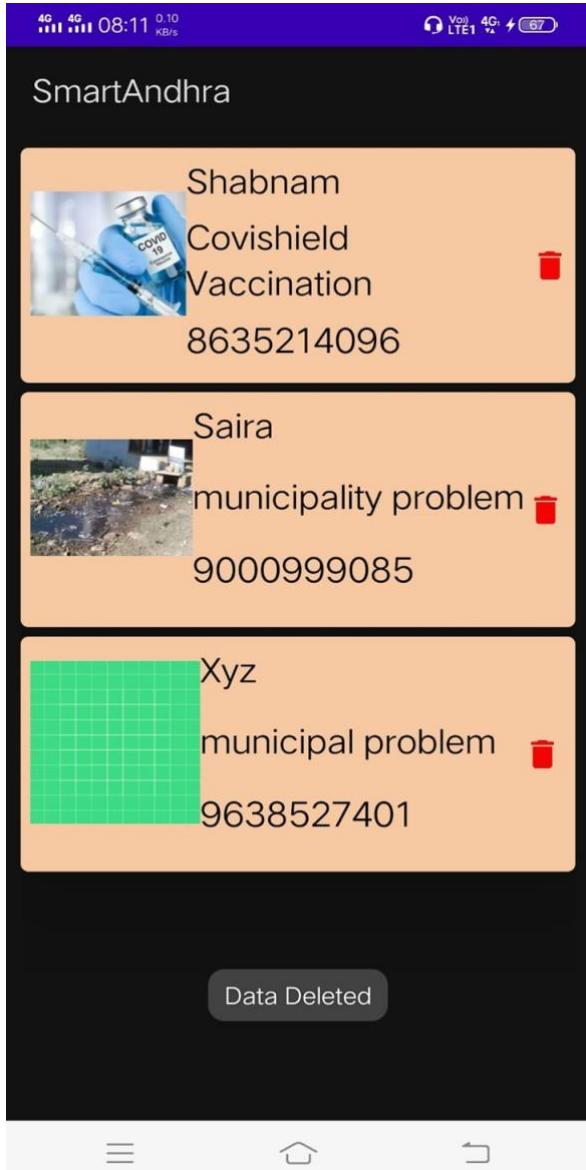


FIG_8 : Return to Homepage and logout



FIG_9 : after Logout, return to main screen

FIG_10 : Admin Login page



FIG_11 : Login and solve problem of Customers

FIG_12 : After completion of task, data can be deleted

SOURCE CODES:

AdminLogin.java:

```
package com.example.smartandhra;

import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.widget.Toast;

public class AdminLogin extends AppCompatActivity {
    EditText email,password;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_admin_login);
    }

    public void login(View view) {
        email = findViewById(R.id.email);
        password = findViewById(R.id.password);

        if(email.getText().toString().equals("Admin@gmail.com")
            && password.getText().toString().equals("admin")){
            //correct password
            Toast.makeText( context: this, text: "Login Successfull",
                Toast.LENGTH_SHORT).show();
            startActivity(new Intent( packageContext: this,DisplayActivity.class));
        } else {
            Toast.makeText( context: this, text: "Invalid email or password",
                Toast.LENGTH_SHORT).show();
            //wrong password
            finish();
        }
    }
}
```

Displayactivity.java:

```
package com.example.smartandhra;

import ...

public class DisplayActivity extends AppCompatActivity {
    RecyclerView rv;
    DatabaseReference reference;
    ArrayList<MyModel> list;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_display);
        rv = findViewById(R.id.rv);
        list = new ArrayList<>();
        reference = FirebaseDatabase.getInstance().getReference(path: "UserData");
        reference.addValueEventListener(new ValueEventListener() {
            @Override
            public void onDataChange(@NonNull DataSnapshot snapshot) {
                list.clear();
                for (DataSnapshot dataSnapshot:snapshot.getChildren()){
                    MyModel myModel = dataSnapshot.getValue(MyModel.class);
                    list.add(myModel);
                }
                MyAdapter adapter = new MyAdapter(ct: DisplayActivity.this,list);
                rv.setAdapter(adapter);
                rv.setLayoutManager(new LinearLayoutManager(context: DisplayActivity.this));
            }
            @Override
            public void onCancelled(@NonNull DatabaseError error) {
                Toast.makeText(context: DisplayActivity.this, text: ""+error,
                        Toast.LENGTH_SHORT).show();
            }
        });
    }
}
```

HomeActivity.java:

```
package com.example.smartandhra;

import ...

public class HomePage extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_home_page);
        FirebaseUser user = FirebaseAuth.getInstance().getCurrentUser();
        if(user != null) {

//put intent to go to mainActivity
            startActivity(new Intent( packageContext: this,Registercomplaint.class));

            this.finish();

        }
    }

    public void adminlogin(View view) {
        startActivity(new Intent( packageContext: HomePage.this,AdminLogin.class));
    }

    public void register(View view) { startActivity(new Intent( packageContext: this, Registrernumber.class)); }

}
```

MainActivity.java:

```
package com.example.smartandhra;

import ...

public class MainActivity extends AppCompatActivity {

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

        new Handler().postDelayed(new Runnable() {
            @Override
            public void run() {
                Intent intent = new Intent(packageContext: MainActivity.this, HomePage.class);
                startActivity(intent);
                finish();
            }
        }, delayMillis: 2000);
    }
}
```

Adapter.java

```
package com.example.smartandhra;
import android.Manifest;
import android.content.Context;
import android.content.pm.PackageManager;
import android.location.Address;
import android.location.Geocoder;
import android.location.Location;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ImageButton;
import android.widget.ImageView;
import android.widget.TextView;
import android.widget.Toast;

import androidx.annotation.NonNull;
import androidx.core.app.ActivityCompat;
import androidx.recyclerview.widget.RecyclerView;

import com.bumptech.glide.Glide;
import com.google.android.gms.location.FusedLocationProviderClient;
import com.google.android.gms.location.LocationServices;
import com.google.android.gms.tasks.OnCompleteListener;
import com.google.android.gms.tasks.Task;
import com.google.firebase.database.DatabaseReference;
import com.google.firebase.database.FirebaseDatabase;
```

```
import java.io.IOException;
import java.util.ArrayList;
import java.util.List;
import java.util.Locale;

public class MyAdapter extends RecyclerView.Adapter<MyAdapter.HoldView> {
    Context ct;
    ArrayList<MyModel> list;

    public MyAdapter(Context ct, ArrayList<MyModel> list) {
        this.ct = ct;
        this.list = list;
    }

    @Override
    public HoldView onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {
        return new HoldView(LayoutInflater.from(ct).inflate(R.layout.row, parent, attachToRoot: false));
    }

    @Override
    public void onBindViewHolder(@NonNull MyAdapter.HoldView holder, int position) {
        Glide.with(ct).load(list.get(position).getImg())
            .placeholder(R.drawable.ic_launcher_background).into(holder.iv);
        holder.name.setText(list.get(position).getName());
        holder.problem.setText(list.get(position).getProblem());
        holder.number.setText(list.get(position).getNumber());
        holder.number.setText(list.get(position).getNumber());
        holder.del.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                DatabaseReference reference = FirebaseDatabase.getInstance().getReference( path: "UserData");
                reference.child(list.get(position).getNumber()).removeValue();
                Toast.makeText(ct, text: "Data Deleted",
                    Toast.LENGTH_SHORT).show();
            }
        });
    }

    @Override
    public int getItemCount() { return list.size(); }

    public class HoldView extends RecyclerView.ViewHolder {
        ImageButton del;
        TextView name, problem, number;
        ImageView iv;

        public HoldView(@NonNull View itemView) {
            super(itemView);
            del = itemView.findViewById(R.id.del);
            name = itemView.findViewById(R.id.name);
            problem = itemView.findViewById(R.id.problem);
            number = itemView.findViewById(R.id.number);
            iv = itemView.findViewById(R.id.iv);
        }
    }
}
```

MyModel.java:

```
package com.example.smartandhra;

public class MyModel{
    String img,name,problem,textview,number;

    public String getImg() { return img; }

    public String getName() { return name; }
    public String getProblem() { return problem; }
    public String getTextview() {return textview;}
    public String getNumber() { return number; }
    public MyModel() {
    }

    public MyModel(String img, String name, String problem, String number, String textview) {
        this.img = img;
        this.name = name;
        this.problem = problem;
        this.number = number;
        this.textview = textview;
    }
}
```

RegisterComplaint.java:

```
package com.example.smartandhra;

import ...

public class Registercomplaint extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_registercomplaint);
    }

    public void registercomplaint(View view) {
        startActivity(new Intent(getApplicationContext(), Yourproblem.class));
    }

    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        //Res >> to access into javafile R.java is used
        //Res >> to access into xml file(@--symbol)
        getMenuInflater().inflate(R.menu.mymenu,menu);
        return super.onCreateOptionsMenu(menu);
    }

    @Override
    public boolean onOptionsItemSelected(@NonNull MenuItem item) {
        if(item.getItemId()==(R.id.logout)) {
            Toast.makeText(context, "Logout", Toast.LENGTH_SHORT).show();
            FirebaseAuth.getInstance().signOut();
        }
    }
}
```

```

        FirebaseAuth.getInstance().signOut();
        startActivity(new Intent(packageContext: this, HomePage.class));
        finish();
    }
    return true;
}
}

```

RegisterNumber.java:

```

package com.example.smartandhra;

import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.widget.Toast;

import com.google.android.gms.tasks.OnCompleteListener;
import com.google.android.gms.tasks.Task;
import com.google.firebase.FirebaseException;
import com.google.firebase.auth.AuthResult;
import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.auth.PhoneAuthCredential;
import com.google.firebase.auth.PhoneAuthOptions;
import com.google.firebase.auth.PhoneAuthProvider;
FirebaseAuth auth;
//To get the Otp, Auto Verification and to capture the failed cases
PhoneAuthProvider.OnVerificationStateChangedCallbacks callbacks;
//This token is used to resend the otp
PhoneAuthProvider.ForceResendingToken token;
//To store the verification id
String id;
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_register_number);
    number = findViewById(R.id.phone);
    code = findViewById(R.id.otp);
    auth = FirebaseAuth.getInstance();
    callbacks = new PhoneAuthProvider.OnVerificationStateChangedCallbacks() {
        @Override
        public void onCodeSent(@NonNull String s, @NonNull PhoneAuthProvider.ForceResendingToken forceResendingToken) {
            super.onCodeSent(s, forceResendingToken);
            //It holds the verification code
            id = s;
            //It holds the token to resend otp
            token = forceResendingToken;
        }

        @Override
        public void onVerificationCompleted(@NonNull PhoneAuthCredential phoneAuthCredential) {
            //To perform Auto Verification
            signPhoneAuth(phoneAuthCredential);
        }
    }
}

```

```
    @Override
    public void onVerificationFailed(@NonNull FirebaseException e) {
        Toast.makeText(context: Registrernumber.this,
                      text: "Failed", Toast.LENGTH_SHORT).show();
    }
};

private void signPhoneAuth(PhoneAuthCredential phoneAuthCredential) {
    auth.signInWithCredential(phoneAuthCredential).addOnCompleteListener(activity: this, new OnCompleteListener<AuthResult>() {
        @Override
        public void onComplete(@NonNull Task<AuthResult> task) {
            if(task.isSuccessful()){
                startActivity(new Intent(packageContext: Registrernumber.this,
                                         Registrernumber.class));
                finish();
            }else {
                Toast.makeText(context: Registrernumber.this, text: "Authentication Failed", Toast.LENGTH_SHORT).show();
            }
        }
    });
}

public void send(View view) {
    String n = number.getText().toString();
    PhoneAuthOptions options= PhoneAuthOptions.newBuilder(auth)
        .setPhoneNumber("+91"+n)
        .setTimeout(timeout: 60L, TimeUnit.SECONDS)
        .setActivity(this)
        .setCallbacks(callbacks)
        .build();
    PhoneAuthProvider.verifyPhoneNumber(options);
}

public void verify(View view) {
    String otp = code.getText().toString().trim();
    if (otp.isEmpty()){
        code.setError("Cant be Empty");
    }else{
        PhoneAuthCredential credential=PhoneAuthProvider.getCredential(id,otp);
        signPhoneAuth(credential);
        startActivity(new Intent(packageContext: this, Registercomplaint.class));
        finish();
    }
}

public void resend(View view) {
    String n = number.getText().toString();
    PhoneAuthOptions options= PhoneAuthOptions.newBuilder(auth)
        .setPhoneNumber("+91"+n)
        .setTimeout(timeout: 60L, TimeUnit.SECONDS)
        .setActivity(this)
        .setCallbacks(callbacks)
        .setForceResendingToken(token)
        .build();
    PhoneAuthProvider.verifyPhoneNumber(options);
}
```

SuccessfulRegistration.java:

```
package com.example.smartandhra;

import ...

public class SuccessfulRegistration extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_successful_registration);
    }

    public void returnhome(View view) { startActivity(new Intent(getApplicationContext(), Registercomplaint.class)); }
}
```

YourProblem.java:

```
package com.example.smartandhra;

import androidx.activity.result.ActivityResultCallback;
import androidx.activity.result.ActivityResultLauncher;
import androidx.activity.result.contract.ActivityResultContracts;
import androidx.annotation.NonNull;
import androidx.annotation.Nullable;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.app.ActivityCompat;
import androidx.databinding.DataBindingUtil;

import android.Manifest;
import android.app.Instrumentation;
import android.content.Intent;
import android.content.pm.PackageManager;
import android.graphics.Bitmap;
import android.location.Address;
import android.location.Geocoder;
import android.location.Location;
import android.net.Uri;
import android.os.Bundle;
import android.provider.MediaStore;
import android.view.View;
import android.widget.TextView;
import android.widget.Toast;
```

```
import com.example.smartandhra.databinding.ActivityYourproblemBinding;
import com.google.android.gms.location.FusedLocationProviderClient;
import com.google.android.gms.location.LocationServices;
import com.google.android.gms.tasks.OnCompleteListener;
import com.google.android.gms.tasks.OnSuccessListener;
import com.google.android.gms.tasks.Task;
import com.google.firebaseio.database.DatabaseReference;
import com.google.firebaseio.database.FirebaseDatabase;
import com.google.firebaseio.storage.FirebaseStorage;
import com.google.firebaseio.storage.StorageReference;
import com.google.firebaseio.storage.UploadTask;

import java.io.IOException;
import java.util.List;
import java.util.Locale;
import java.util.UUID;

public class Yourproblem extends AppCompatActivity {
    DatabaseReference databaseReference;
    StorageReference storageReference;
    ActivityYourproblemBinding binding;
    Uri uri;
    TextView tv;
    FusedLocationProviderClient locationProviderClient;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        /* setContentView(R.layout.activity_main);*/
        binding = DataBindingUtil.setContentView( activity: this,R.layout.activity_yourproblem);
        databaseReference = FirebaseDatabase.getInstance().getReference( path: "UserData");
        storageReference = FirebaseStorage.getInstance().getReference()
            .child("Images/"+ UUID.randomUUID().toString());
        tv = findViewById(R.id.textView);
        locationProviderClient = LocationServices.getFusedLocationProviderClient( activity: this);
    }
}
```

```
ActivityResultLauncher<String> mgetContent = registerForActivityResult(new ActivityResultContracts.GetContent(),
    new ActivityResultCallback<Uri>() {
        @Override
        public void onActivityResult(Uri result) {
            uri = result;
            try {
                Bitmap bitmap = MediaStore.Images.Media.getBitmap(getContentResolver(),uri);
                binding.iv.setImageBitmap(bitmap);
            } catch (IOException e) {
                e.printStackTrace();
            }
        }
    });
});
```

```
binding.iv.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) { mgetContent.launch( input: "image/*"); }
});

public void getDeviceLocationDetail(View view) {
    if (ActivityCompat.checkSelfPermission( context: this, Manifest.permission.ACCESS_FINE_LOCATION)
        != PackageManager.PERMISSION_GRANTED &&
        ActivityCompat.checkSelfPermission( context: this, Manifest.permission.ACCESS_COARSE_LOCATION) != PackageManager.PERMISSION_GRANTED)
        // TODO: Consider calling
        // ActivityCompat#requestPermissions
        // here to request the missing permissions, and then overriding
        // public void onRequestPermissionsResult(int requestCode, String[] permissions,
        //                                         int[] grantResults)
        // to handle the case where the user grants the permission. See the documentation
        // for ActivityCompat#requestPermissions for more details.
    return;
}

locationProviderClient.getLastLocation().addOnCompleteListener(new OnCompleteListener<Location>() {
    @Override
    public void onComplete(@NonNull Task<Location> task) {
        Location location=task.getResult();
        Geocoder geocoder=new Geocoder( context: Yourproblem.this, Locale.getDefault());
        try {
            List<Address> addresses=geocoder.getFromLocation(location.getLatitude(),location.getLongitude(), maxResults: 1);
            String locality=String.valueOf(addresses.get(0).getLocality());
            String address=String.valueOf(addresses.get(0).getAddressLine( index: 0));
            String postalCode=String.valueOf(addresses.get(0).getPostalCode());
            tv.setText("Locality :" +locality+"\n"+ "Address :" +address+"\n"+ "Postal Code :" +postalCode);

        } catch (IOException e) {
            e.printStackTrace();
        }
    }
});

public void register(View view) {
    storageReference.putFile(uri).addOnSuccessListener( activity: this, new OnSuccessListener<UploadTask.TaskSnapshot>() {
        @Override
        public void onSuccess(UploadTask.TaskSnapshot taskSnapshot) {
            storageReference.getDownloadUrl().addOnSuccessListener(new OnSuccessListener<Uri>() {
                @Override
                public void onSuccess(Uri uri) {
                    String url = uri.toString();
                    String name = binding.name.getText().toString();
                    String problem = binding.problem.getText().toString();
                    String num = binding.number.getText().toString();
                    String textView = binding.textView.getText().toString();
                    MyModel myModel = new MyModel(url,name,problem,num,textView);

                    /* String id = databaseReference.push().getKey();*/
                    databaseReference.child(num).setValue(myModel);
                    Toast.makeText( context: Yourproblem.this, text: "Data Inserted",
                        Toast.LENGTH_SHORT).show();
                    startActivity(new Intent( packageContext: Yourproblem.this,SuccessfulRegistration.class));
                    finish();
                }
            });
        }
    });
}
```

AdminLogin.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:padding="15dp"
    android:background="@drawable/adminloginbkgnd"
    tools:context=".AdminLogin">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:fontFamily="@font/caesar_dressing"
        android:gravity="center"
        android:text="Admin Login"
        android:textColor="#F80B0B"
        android:textSize="30dp" />

    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Enter Email"
        android:textColor="#FFFFFF"
        android:id="@+id/email"
        android:layout_marginTop="30dp"/>
    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Enter Password"
        android:textColor="#FFFFFF"
        android:id="@+id/password"
        android:layout_marginTop="30dp"/>
    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Login"
        android:onClick="login"
        android:backgroundTint="#0D80FA"
        android:layout_marginTop="20dp"/>

    <ImageView
        android:layout_width="179dp"
        android:layout_height="135dp"
        android:layout_gravity="center"
        android:layout_marginTop="25dp"
        android:background="@drawable/ic_baseline_person_24" />

```

Display.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:padding="9dp"
    tools:context=".DisplayActivity">
    <androidx.recyclerview.widget.RecyclerView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:id="@+id/rv"/>
</androidx.constraintlayout.widget.ConstraintLayout>
```

Homepage.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".HomePage"
    android:background="@drawable/images"
    android:orientation="vertical">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:fontFamily="@font/ceviche_one"
        android:gravity="center"
        android:text="SmartAndhra"
        android:textColor="#0AEF0D"
        android:textSize="50dp" />

    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="AdminLogin"
        android:onClick="adminlogin" />

```

```
        android:text="AdminLogin"
        android:onClick="adminlogin"
        android:layout_marginTop="200dp"
        tools:layout_editor_absoluteX="0dp"
        tools:layout_editor_absoluteY="294dp" />

    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Register problems"
        android:id="@+id/register"
        android:onClick="register"
        android:layout_marginTop="100dp"
        tools:layout_editor_absoluteX="16dp"
        tools:layout_editor_absoluteY="484dp" />

</LinearLayout>
```

MainActivity.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <ImageView
        android:id="@+id/imageView"
        android:layout_width="0dp"
        android:layout_height="0dp"
        android:background="#000010"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:srcCompat="@drawable/logoandhra"
    />
</androidx.constraintlayout.widget.ConstraintLayout>
```

RegisterNumer.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:padding="10dp"
    android:gravity="center"
    android:background="@drawable/regis"
    tools:context=".Registernumber">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:gravity="center"
        android:text="Registration"
        android:textColor="#9C0C22"
        android:textSize="45sp"
        android:textStyle="bold" />

    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Enter Phone Number"
        android:textColorHint="#000080B"
        android:textColor="#0C0C0C"
        android:id="@+id/phone"
        android:layout_marginTop="200dp"
        android:inputType="phone"/>

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="15dp"
        android:backgroundTint="#F6820D"
        android:gravity="center"
        android:onClick="send"
        android:text="Send Otp"
        android:textColor="#F8F5F5" />

    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Enter Otp Here"
        android:textColorHint="#000080B"
        android:textColor="#0C0C0C"
        android:id="@+id/otp"
```

```
        android:id="@+id/otp"
        android:layout_marginTop="15dp"
        android:inputType="phone"/>
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Verify"
        android:textColor="#0606F3"
        android:backgroundTint="#F8F7F5"
        android:layout_marginTop="15dp"
        android:onClick="verify"/>
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="resend"
        android:textColor="#F8F5F5"
        android:backgroundTint="#3AAF08"
        android:layout_marginTop="15dp"
        android:onClick="resend"/>
</LinearLayout>
```

RegisterComplaint.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:background="@drawable/bakgrnd"
    tools:context=".Registercomplaint">
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Register Complaint"
        android:gravity="center"
        android:textColor="#000000"
        android:textSize="40dp"/>

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:text="Register Problem"
        android:onClick="registercomplaint"
        android:layout_marginTop="150dp"
        tools:layout_editor_absoluteX="133dp"
```

```
        android:onClick="registercomplaint"
        android:layout_marginTop="150dp"
        tools:layout_editor_absoluteX="133dp"
        tools:layout_editor_absoluteY="352dp" />
    <ImageView
        android:layout_width="264dp"
        android:layout_height="294dp"
        android:layout_marginTop="50dp"
        android:layout_gravity="center"
        android:background="@drawable/ic_baseline_pending_actions_24" />

</LinearLayout>
```

SuccessfulRegistration.xml:

```
<?xml version="1.0" encoding="utf-8"?> ⚠ 5 ✘ 2
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:padding="25dp"
    tools:context=".SuccessfulRegistration">
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Your complaint is registered successfully \n and it will be
        solved soon.."
        android:textSize="30sp"
        android:gravity="center"
        android:layout_marginTop="100dp"/>

    <ImageView
        android:layout_width="157dp"
        android:layout_height="151dp"
        android:layout_gravity="center"
        android:layout_marginTop="25dp"
        android:background="@drawable/ic_checkcircle"/>
```

```
        android:layout_width="157dp"
        android:layout_height="151dp"
        android:layout_gravity="center"
        android:layout_marginTop="25dp"
        android:background="@drawable/ic_checkcircle"/>
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Return Home"
        android:onClick="returnhome"
        android:layout_marginTop="45dp"
        android:layout_gravity="center"/>

```

</LinearLayout>

YourProblem.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<layout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools">
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:orientation="vertical"
        android:padding="2dp"
        android:gravity="center"
        android:background="@drawable/registration"
        tools:context=".Yourproblem">

        <TextView
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:fontFamily="@font/leckerli_one"
            android:gravity="center"
            android:text="REGISTER PROBLEM"
            android:textColor="#FB071B"
            android:textColorHighlight="#076716"
            android:textColorHint="#168146"
            android:textSize="30sp"
            android:textStyle="bold" />
    
```

```
<ImageView
    android:layout_width="150dp"
    android:layout_height="150dp"
    android:layout_gravity="center"
    android:src="@drawable/ic_launcher_background"
    android:layout_marginTop="10dp"
    android:id="@+id/iv"
/>
<EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/name"
    android:hint="Enter Name"
    android:layout_marginTop="10dp"/>
<EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/number"
    android:hint="Enter Number"
    android:inputType="phone"
    android:layout_marginTop="10dp"/>
<EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Mention your problem"
    android:id="@+id/problem"
    android:layout_marginTop="10dp" />
<Button
    android:id="@+id/button"
    android:layout_width="375dp"
    android:layout_height="51dp"
    android:layout_marginTop="15dp"
    android:onClick="getDeviceLocationDetail"
    android:text="Current Location"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
<TextView
    android:id="@+id/textView"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginStart="16dp"
```

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```
        android:layout_marginTop="10dp"
        android:layout_marginBottom="10dp"
        android:text="Location"
        android:gravity="center"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/button"
        app:layout_constraintVertical_bias="0.0" />

    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="register"
        android:layout_marginTop="5dp"
        android:onClick="register"/>

</LinearLayout>
</layout>
```

Row.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.cardview.widget.CardView
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    app:cardCornerRadius="5dp"
    app:cardElevation="45dp"
    app:cardBackgroundColor="#F6C9A2"
    android:layout_marginBottom="6dp"
    android:padding="10dp"
    >
    <LinearLayout
        android:orientation="horizontal"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:padding="6dp">

        <ImageView
            android:id="@+id/iv"
            android:layout_width="100dp"
            android:layout_height="124dp"
            android:layout_weight="1"
            android:background="@null"
```

```
    android:src="@drawable/ic_launcher_background" /> ▲ 8 ^ v

<LinearLayout
    android:layout_width="wrap_content"
    android:layout_height="139dp"
    android:layout_weight="3"
    android:orientation="vertical">

    <TextView
        android:id="@+id/name"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="name"
        android:textColor="#000000"
        android:textSize="20sp" />

    <TextView
        android:id="@+id/problem"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="problem"
        android:textColor="#000000"

        android:textSize="20sp" /> ▲ 8

    <TextView
        android:id="@+id/number"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="number"
        android:textColor="#000000"
        android:textSize="21sp" />

</LinearLayout>
<LinearLayout
    android:layout_width="wrap_content"
    android:layout_height="match_parent"
    android:layout_weight="1"
    android:gravity="center"
    android:orientation="vertical">

    <ImageButton
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/del"
        android:layout_weight="1"
```

```
<ImageButton  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:id="@+id/del"  
    android:layout_weight="1"  
    android:background="@null"  
    android:src="@drawable/ic_baseline_delete_24"/>  
  
</LinearLayout>  
</androidx.cardview.widget.CardView>
```

MyMenu.xml:

```
<?xml version="1.0" encoding="utf-8"?>  
<menu xmlns:android="http://schemas.android.com/apk/res/android"  
      xmlns:app="http://schemas.android.com/apk/res-auto">  
  
    <item  
        android:title="Logout"  
        android:id="@+id/logout"  
        app:showAsAction="always"  
        android:icon="@drawable/ic_logout"  
    />  
  
</menu>
```

Manifest file:

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.smartandhra">

    <uses-permission android:name="android.permission.INTERNET" />
    <uses-permission android:name="android.permission.READ_EXTERNAL_STORAGE" />
    <uses-permission android:name="android.permission.MANAGE_EXTERNAL_STORAGE" />
    <uses-permission android:name="android.permission.WRITE_EXTERNAL_STORAGE" />
    <uses-permission android:name="android.permission.ACCESS_FINE_LOCATION" />

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="SmartAndhra"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.SmartAndhra"
        android:usesCleartextTraffic="true">
        <activity android:name=".Registercomplaint"></activity>
        <activity android:name=".HomePage" />
        <activity android:name=".AdminLogin" />
        <activity android:name=".SuccessfulRegistration" />
        <activity android:name=".DisplayActivity" />
        <activity android:name=".Yourproblem" />
        <activity android:name=".Registernumber" />
        <activity android:name=".MainActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>

        <meta-data
            android:name="preloaded_fonts"
            android:resource="@array/preloaded_fonts" />
    </application>

</manifest>
```

