

VIEWPAY SOURCE CODE

MainActivity.java:

```
package com.example.viewpay1;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Context;
import android.content.Intent;
import android.os.Bundle;
import android.os.Handler;
import android.view.WindowManager;
import android.view.animation.Animation;
import android.view.animation.AnimationUtils;
import android.widget.ImageView;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

    private static int SPLASH_SCREEN=2500;
    ImageView imageView;
    TextView textView;
    Animation top,bottom;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
```

```
getWindow().setFlags(WindowManager.LayoutParams.FLAG_FULLSCREEN,  
WindowManager.LayoutParams.FLAG_FULLSCREEN);
```

```
    setContentView(R.layout.activity_main);
```

```
    imageView=findViewById(R.id.imageView);
```

```
    textView=findViewById(R.id.textView);
```

```
    top=AnimationUtils.loadAnimation( this, R.anim.top);
```

```
    bottom=AnimationUtils.loadAnimation(this, R.anim.bottom);
```

```
    imageView.setAnimation(top);
```

```
    textView.setAnimation(bottom);
```

```
    new Handler().postDelayed(new Runnable() {
```

```
        @Override
```

```
        public void run() {
```

```
            Intent i = new Intent(MainActivity.this,Login.class);
```

```
            startActivity(i);
```

```
            finish();
```

```
        }
```

```
    },SPLASH_SCREEN);
```

```
}
```

```
}
```

Activity_main.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:layout_gravity="center"
    android:background="@color/light"
    android:gravity="center"
    tools:context=".MainActivity">
```

<ImageView

```
    android:id="@+id/imageView"
    android:layout_width="367dp"
    android:layout_height="675dp"
    android:layout_marginLeft="8dp"
    android:layout_marginTop="8dp"
    android:layout_marginRight="8dp"
    android:layout_marginBottom="8dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintLeft_toLeftOf="parent"
    app:layout_constraintRight_toRightOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.447"
    app:srcCompat="@drawable/vp" />
```

```
<TextView
    android:id="@+id/textView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="80dp"
    android:fontFamily="cursive"
    android:text="Use ViewPay To View Your Pay"
    android:textAlignment="center"
    android:textColor="@color/black"
    android:textSize="20dp"
    android:textStyle="bold"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.498"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.647" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

Animation File:

Top.xml

```
<?xml version="1.0" encoding="utf-8"?>
<set xmlns:android="http://schemas.android.com/apk/res/android">
    <translate
        android:duration="1500"
```

```
        android:fromXDelta="0% "  
        android:fromYDelta="-50% "/>  
    <alpha  
        android:duration="1500"  
        android:fromAlpha="0.1 "  
        android:toAlpha="1.0"/>  
</set>
```

Bottom.xml:

```
<?xml version="1.0" encoding="utf-8"?>  
<set xmlns:android="http://schemas.android.com/apk/res/android">  
    <translate  
        android:duration="1500"  
        android:fromXDelta="0% "  
        android:fromYDelta="-50% "/>  
    <alpha  
        android:duration="1500"  
        android:fromAlpha="0.1 "  
        android:toAlpha="1.0"/>  
</set>
```

Login.java:

```
package com.example.viewpay1;
```

```
import androidx.annotation.NonNull;
```

```
import androidx.appcompat.app.AlertDialog;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.content.DialogInterface;
```

```
import android.content.Intent;
```

```
import android.os.Bundle;
```

```
import android.util.Log;
```

```
import android.view.LayoutInflater;
```

```
import android.view.View;
```

```
import android.widget.Button;
```

```
import android.widget.EditText;
```

```
import android.widget.TextView;
```

```
import android.widget.Toast;
```

```
import com.google.android.gms.tasks.OnFailureListener;
```

```
import com.google.android.gms.tasks.OnSuccessListener;
```

```
import com.google.firebase.auth.AuthResult;
```

```
import com.google.firebase.auth.FirebaseAuth;
```

```
import com.google.firebase.auth.FirebaseUser;
```

```
import com.google.firebase.firestore.DocumentReference;
```

```
import com.google.firebase.firestore.DocumentSnapshot;
```

```
import com.google.firebase.firestore.FirebaseFirestore;
```

```
public class Login extends AppCompatActivity {  
    EditText email,password;  
    TextView gotoRegister,forget_password;  
    Button loginBtn;  
    boolean valid = true;  
    FirebaseAuth fAuth;  
    FirebaseFirestore fStore;  
    AlertDialog.Builder reset_alert;  
    LayoutInflater inflater;  
    FirebaseUser user;  
  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_login);  
  
        fAuth=FirebaseAuth.getInstance();  
        fStore=FirebaseFirestore.getInstance();  
  
        reset_alert=new AlertDialog.Builder(this);  
        inflater=this.getLayoutInflater();  
  
        email = findViewById(R.id.loginEmail);  
        password = findViewById(R.id.loginPassword);  
        loginBtn = findViewById(R.id.loginBtn);  
        gotoRegister = findViewById(R.id.gotoRegister);  
    }  
}
```

```

forget_password = findViewById(R.id.forget_password);
forget_password.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {

        View view1=inflater.inflate(R.layout.reset_pop,null);

        reset_alert.setTitle("Reset Forget password")
            .setMessage("Enter your Email Id to get password reset link")
            .setPositiveButton("Reset", new
DialogInterface.OnClickListener() {
                @Override
                public void onClick(DialogInterface dialogInterface, int i) {

                    EditText
email=view1.findViewById(R.id.reset_email_pop);

                    if(email.getText().toString().isEmpty()){
                        email.setError("Required Field");
                        return;
                    }

fAuth.sendPasswordResetEmail(email.getText().toString()).addOnSuccessListener(new OnSuccessListener<Void>() {
                            @Override
                            public void onSuccess(Void aVoid) {
                                Toast.makeText(Login.this,"Reset Email
sent",Toast.LENGTH_SHORT).show();

                            }

                        }).addOnFailureListener(new OnFailureListener() {

```



```

        @Override
        public void onFailure(@NonNull Exception e) {

Toast.makeText(Login.this,e.getMessage(),Toast.LENGTH_SHORT).show();

        }

    });

```

```

    }

    ).setNegativeButton("Cancel",null)
    .setView(view1)
    .create().show();

}

});

```

```

loginBtn.setOnClickListener(new View.OnClickListener() {

    @Override
    public void onClick(View view) {

        checkField(email);
        checkField(password);
        Log.d("TAG","onClick" + email.getText().toString());
        if(valid)
        {

fAuth.signInWithEmailAndPassword(email.getText().toString(),password.getText().toString()).addOnSuccessListener(new OnSuccessListener<AuthResult>()
{

```

```

        @Override

```

```
        public void onSuccess(AuthResult authResult) {  
            Toast.makeText(Login.this,"Logged In  
Successfully",Toast.LENGTH_SHORT).show();  
            checkUserAccessLevel(authResult.getUser().getUid());  
        }  
    }).addOnFailureListener(new OnFailureListener() {  
        @Override  
        public void onFailure(@NonNull Exception e) {  
            Toast.makeText(Login.this,e.getMessage(),Toast.LENGTH_SHORT).show();  
        }  
    });  
}  
};
```

```
gotoRegister.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View view) {  
        startActivity(new Intent(getApplicationContext(), Register.class));  
    }  
});
```

```
}
```

```
private void checkUserAccessLevel(String uid) {
```

```

        DatabaseReference df=fStore.collection("User").document(uid);
        df.get().addOnSuccessListener(new
        OnSuccessListener<DocumentSnapshot>() {
            @Override
            public void onSuccess(DocumentSnapshot documentSnapshot) {
                Log.d("TAG","OnSuccess:" + documentSnapshot.getData());

                if(documentSnapshot.getString("isRetailer") != null){
                    startActivity(new Intent(getApplicationContext(),Admin.class));
                    finish();
                }

                if(documentSnapshot.getString("isCustomer") != null){
                    startActivity(new Intent(getApplicationContext(),User.class));
                    finish();
                }

            }
        });
    }

```

```

public boolean checkField(EditText textField){
    if(textField.getText().toString().isEmpty()){
        textField.setError("Error");
    }
}

```

```
        valid = false;
    }else {
        valid = true;
    }
}
```

```
    return valid;
}
```

```
@Override
```

```
protected void onStart(){
```

```
    super.onStart();
```

```
    if(FirebaseAuth.getInstance().getCurrentUser() != null){
```

```
        DatabaseReference
```

```
df=FirebaseFirestore.getInstance().collection("Users").document(FirebaseAuth.
getInstance().getCurrentUser().getUid());
```

```
        df.get().addOnSuccessListener(new
OnSuccessListener<DocumentSnapshot>() {
```

```
            @Override
```

```
            public void onSuccess(DocumentSnapshot documentSnapshot) {
```

```
                if(documentSnapshot.getString("isRetailer") != null){
```

```
                    startActivity(new Intent(getApplicationContext(),Admin.class));
```

```
                    finish();
```

```
                }
```

```
                if(documentSnapshot.getString("isCustomer") != null){
```

```
                    startActivity(new Intent(getApplicationContext(),User.class));
```

```
                    finish();
```

```
                }
```

```
            }
```

```

    }).addOnFailureListener(new OnFailureListener() {
        @Override
        public void onFailure(@NonNull Exception e) {
            FirebaseAuth.getInstance().signOut();
            startActivity(new Intent(getApplicationContext(),Login.class));
            finish();
        }
    });
}
}
}

```

Activity_login.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:background="@color/white"
    tools:context=".Login">

    <androidx.cardview.widget.CardView
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_marginStart="8dp"

```

```
android:layout_marginTop="8dp"
android:layout_marginEnd="8dp"
android:layout_marginBottom="8dp"
app:cardCornerRadius="5dp"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent">
```

```
<androidx.constraintlayout.widget.ConstraintLayout
    android:layout_width="match_parent"
    android:layout_height="416dp"
    android:background="@color/white">
```

```
<TextView
    android:id="@+id/textView3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="171dp"
    android:layout_marginTop="24dp"
    android:layout_marginEnd="166dp"
    android:layout_marginBottom="25dp"
    android:text="ViewPay"
    android:textColor="@color/black"
    android:textStyle="bold"
    android:fontFamily="cursive"
```

```
android:textSize="30dp"
app:layout_constraintBottom_toTopOf="@+id/loginEmail"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

<EditText

```
android:id="@+id/loginEmail"
android:layout_width="0dp"
android:layout_height="wrap_content"
android:layout_marginStart="16dp"
android:layout_marginTop="68dp"
android:layout_marginEnd="16dp"
android:ems="10"
android:backgroundTint="@android:color/black"
android:hint="Email Id"
android:textColorHint="@color/grey"
android:textColor="@color/black"
android:inputType="textEmailAddress"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="1.0"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
android:focusableInTouchMode="true"/>
```

<EditText

```
android:id="@+id/loginPassword"
```

```
android:layout_width="0dp"
android:layout_height="wrap_content"
android:layout_marginStart="16dp"
android:layout_marginTop="8dp"
android:layout_marginEnd="16dp"
android:ems="10"
android:backgroundTint="@android:color/black"
android:hint="Password"
android:textColorHint="@color/grey"
android:textColor="@color/black"
android:inputType="textPassword"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/loginEmail"
android:focusableInTouchMode="true"/>
```

<Button

```
android:id="@+id/loginBtn"
android:layout_width="0dp"
android:layout_height="wrap_content"
android:layout_marginStart="16dp"
android:layout_marginTop="16dp"
android:layout_marginEnd="16dp"
android:backgroundTint="@color/light"
android:text="LOGIN"
android:textColor="@color/black"
android:textSize="20dp"
```



```
app:layout_constraintEnd_toEndOf="parent"  
app:layout_constraintStart_toStartOf="parent"  
app:layout_constraintTop_toBottomOf="@+id/loginPassword" />
```

```
<TextView
```

```
    android:id="@+id/gotoRegister"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_marginStart="16dp"  
    android:layout_marginTop="32dp"  
    android:layout_marginEnd="16dp"  
    android:textColor="@color/purple_500"  
    android:text="Create Account"  
    app:layout_constraintEnd_toEndOf="parent"  
    app:layout_constraintHorizontal_bias="0.962"  
    app:layout_constraintStart_toStartOf="parent"  
    app:layout_constraintTop_toBottomOf="@+id/loginBtn" />
```

```
<TextView
```

```
    android:id="@+id/forget_password"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_marginStart="16dp"  
    android:layout_marginTop="8dp"  
    android:layout_marginEnd="16dp"  
    android:text="Forget Password?"  
    android:textColor="@color/purple_500"
```

```
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="@+id/gotoRegister"
app:layout_constraintHorizontal_bias="0.0"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/loginBtn"
app:layout_constraintVertical_bias="0.15" />
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

```
</androidx.cardview.widget.CardView>
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

Reset_pop.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">
```

```
<EditText
```

```
android:id="@+id/reset_email_pop"
```

```
android:layout_width="0dp"
```

```
android:layout_height="wrap_content"
```

```
android:layout_marginStart="8dp"
```

```
android:layout_marginTop="8dp"
```

```
        android:layout_marginEnd="8dp"
        android:ems="10"
        android:hint="Email Id"
        android:inputType="textEmailAddress"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

Register.java:

```
package com.example.viewpay1;

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

import android.annotation.SuppressLint;
import android.annotation.TargetApi;
import android.os.Bundle;
import android.os.Build;
import android.view.View;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.CompoundButton;
import android.widget.EditText;
import android.widget.Toast;
```

```
import com.google.android.gms.tasks.OnFailureListener;
import com.google.android.gms.tasks.OnSuccessListener;
import com.google.firebase.auth.AuthResult;
import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.auth.FirebaseUser;
import com.google.firebase.firestore.DocumentReference;
import com.google.firebase.firestore.FirebaseFirestore;
```

```
import java.util.HashMap;
import java.util.Map;
```

```
public class Register extends AppCompatActivity {
    EditText fullName,email,password,phone;
    Button registerBtn,goToLogin;
    boolean valid = true;
    FirebaseAuth fAuth;
    FirebaseFirestore fStore;
    CheckBox isRetailerBox,isCustomerBox;

    @SuppressWarnings("MissingInflatedId")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_register);

        fAuth = FirebaseAuth.getInstance();
```

```
fStore = FirebaseFirestore.getInstance();
```

```
fullName = findViewById(R.id.registerName);
```

```
email = findViewById(R.id.registerEmail);
```

```
password = findViewById(R.id.registerPassword);
```

```
phone = findViewById(R.id.registerPhone);
```

```
registerBtn = findViewById(R.id.registerBtn);
```

```
goToLogin = findViewById(R.id.gotoLogin);
```

```
isRetailerBox = findViewById(R.id.isRetailer);
```

```
isCustomerBox = findViewById(R.id.isCustomer);
```

```
isCustomerBox.setOnCheckedChangeListener(new  
CompoundButton.OnCheckedChangeListener() {
```

```
    @Override
```

```
    public void onCheckedChanged(CompoundButton compoundButton,  
boolean b) {
```

```
        if(compoundButton.isChecked()){
```

```
            isRetailerBox.setChecked(false);
```

```
        }
```

```
    }
```

```
});
```

```
registerBtn.setOnClickListener(new View.OnClickListener() {
```

```
    @Override
```

```
    public void onClick(View view) {
```

```
        checkField(fullName);
```

```

        checkField(email);
        checkField(password);
        checkField(phone);

        if(!(isRetailerBox.isChecked() || isCustomerBox.isChecked())){
            Toast.makeText(Register.this,"Select The Account
Type",Toast.LENGTH_SHORT).show();
            return;
        }

        if(valid){

fAuth.createUserWithEmailAndPassword(email.getText().toString(),password.
getText().toString()).addOnSuccessListener(new
OnSuccessListener<AuthResult>() {

            @Override

            public void onSuccess(AuthResult authResult) {

                FirebaseUser user=fAuth.getCurrentUser();

                Toast.makeText(Register.this,"Account
Created",Toast.LENGTH_SHORT).show();

                DocumentReference
df=fStore.collection("User").document(user.getUid());

                Map<String,Object>userInfo=new HashMap<>();
                userInfo.put("FullName",fullName.getText().toString());
                userInfo.put("UserEmail",email.getText().toString());
                userInfo.put("PhoneNumber",phone.getText().toString());
                userInfo.put("isUser","1");

```

```

        if(isRetailerBox.isChecked()){
            userInfo.put("isRetailer","1");
        }
        if(isCustomerBox.isChecked()){
            userInfo.put("isCustomer","1");
        }

        df.set(userInfo);

        if(isRetailerBox.isChecked()){
            startActivity(new
Intent(getApplicationContext(),Admin.class));
            finish();
        }
        if(isCustomerBox.isChecked()){
            startActivity(new
Intent(getApplicationContext(),User.class));
            finish();
        }

    }

}).addOnFailureListener(new OnFailureListener(){
    @Override
    public void onFailure(@NonNull Exception e){
        Toast.makeText(Register.this,"Failed to
create",Toast.LENGTH_SHORT).show();
    }
});

```

```

        }
    }

});

goToLogin.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        startActivity(new Intent(getApplicationContext(),Login.class));
    }
});

}

public boolean checkField(EditText textField){
    if(textField.getText().toString().isEmpty()){
        textField.setError("Error");
        valid = false;
    }else {
        valid = true;
    }

    return valid;
}
}

```

Activity_register.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:background="@color/white"
tools:context=".Register">
```

```
<androidx.cardview.widget.CardView
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_marginStart="8dp"
    android:layout_marginTop="8dp"
    android:layout_marginEnd="8dp"
    app:cardCornerRadius="5dp"
    android:background="@color/white"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent">
```

```
<androidx.constraintlayout.widget.ConstraintLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@color/white">
```

```
<TextView
    android:id="@+id/textView3"
    android:layout_width="wrap_content"
```

```
android:layout_height="wrap_content"
android:layout_marginStart="171dp"
android:layout_marginTop="24dp"
android:layout_marginEnd="166dp"
android:layout_marginBottom="25dp"
android:text="ViewPay"
android:textColor="@color/black"
android:textStyle="bold"
android:fontFamily="cursive"
android:textSize="30dp"
app:layout_constraintBottom_toTopOf="@+id/registerName"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

<EditText

```
android:id="@+id/registerName"
android:layout_width="0dp"
android:layout_height="wrap_content"
android:layout_marginStart="16dp"
android:layout_marginTop="68dp"
android:layout_marginEnd="16dp"
android:backgroundTint="@android:color/black"
android:ems="10"
android:hint="Full Name"
android:inputType="textPersonName"
```

```
android:textColor="@color/black"
android:textColorHint="@color/grey"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.0"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

<EditText

```
android:id="@+id/registerEmail"
android:layout_width="0dp"
android:layout_height="wrap_content"
android:layout_marginStart="16dp"
android:layout_marginTop="8dp"
android:layout_marginEnd="16dp"
android:ems="10"
android:textColor="@color/black"
android:textColorHint="@color/grey"
android:backgroundTint="@android:color/black"
android:hint="Email Id"
android:inputType="textEmailAddress"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/registerName" />
```

<EditText

```
android:id="@+id/registerPassword"
android:layout_width="0dp"
```

```
android:layout_height="wrap_content"
android:layout_marginStart="16dp"
android:layout_marginTop="8dp"
android:layout_marginEnd="16dp"
android:ems="10"
android:backgroundTint="@android:color/black"
android:hint="Password"
android:textColor="@color/black"
android:textColorHint="@color/grey"
android:inputType="textPassword"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/registerEmail" />
```

<EditText

```
android:id="@+id/registerPhone"
android:layout_width="0dp"
android:layout_height="wrap_content"
android:layout_marginStart="16dp"
android:layout_marginTop="8dp"
android:layout_marginEnd="16dp"
android:ems="10"
android:backgroundTint="@android:color/black"
android:hint="Phone Number"
android:inputType="phone"
android:textColorHint="@color/grey"
android:textColor="@color/black"
```

```
app:layout_constraintEnd_toEndOf="parent"  
app:layout_constraintStart_toStartOf="parent"  
app:layout_constraintTop_toBottomOf="@+id/registerPassword" />
```

```
<CheckBox
```

```
    android:id="@+id/isRetailer"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_marginStart="16dp"  
    android:layout_marginTop="8dp"  
    android:text="Register As Retailer"  
    android:textColor="@color/black"  
    app:layout_constraintStart_toStartOf="parent"  
    app:layout_constraintTop_toBottomOf="@+id/registerPhone" />
```

```
<CheckBox
```

```
    android:id="@+id/isCustomer"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_marginTop="8dp"  
    android:layout_marginEnd="16dp"  
    android:text="Register as Customer"  
    android:textColor="@color/black"  
    app:layout_constraintEnd_toEndOf="parent"  
    app:layout_constraintStart_toEndOf="@+id/isRetailer"  
    app:layout_constraintTop_toBottomOf="@+id/registerPhone" />
```

<TextView

```
    android:id="@+id/textView7"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="24dp"
    android:layout_marginTop="36dp"
    android:layout_marginEnd="64dp"
    android:layout_marginBottom="45dp"
    android:text="Are you Merchant too?"
    android:textColor="@color/black"
    app:layout_constraintBottom_toTopOf="@+id/registerBtn"
    app:layout_constraintEnd_toStartOf="@+id/radioButton"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/isRetailer"
    app:layout_constraintVertical_bias="0.0" />
```

<RadioButton

```
    android:id="@+id/radioButton"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="44dp"
    android:layout_marginTop="16dp"
    android:text="Yes"
    android:textColor="@color/black"
    app:layout_constraintStart_toEndOf="@+id/textView7"
    app:layout_constraintTop_toBottomOf="@+id/isCustomer" />
```

<RadioButton

```
    android:id="@+id/radioButton2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="49dp"
    android:layout_marginTop="19dp"
    android:layout_marginEnd="13dp"
    android:layout_marginBottom="33dp"
    android:text="No"
    android:textColor="@color/black"
    app:layout_constraintBottom_toTopOf="@+id/registerBtn"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.0"
    app:layout_constraintStart_toEndOf="@+id/radioButton"
    app:layout_constraintTop_toBottomOf="@+id/isCustomer"
    app:layout_constraintVertical_bias="1.0" />
```

<Button

```
    android:id="@+id/registerBtn"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_marginStart="16dp"
    android:layout_marginTop="40dp"
    android:layout_marginEnd="16dp"
    android:backgroundTint="@color/light"
    android:text="Create Account"
```

```
android:textColor="@color/black"
android:textSize="15dp"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.0"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/radioButton2" />
```

<Button

```
android:id="@+id/gotoLogin"
android:layout_width="0dp"
android:layout_height="wrap_content"
android:layout_marginStart="16dp"
android:layout_marginTop="8dp"
android:layout_marginEnd="16dp"
android:layout_marginBottom="16dp"
android:text="Login"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/registerBtn" />
```

</androidx.constraintlayout.widget.ConstraintLayout>

</androidx.cardview.widget.CardView>

</androidx.constraintlayout.widget.ConstraintLayout>

Admin.java:

```
package com.example.viewpay1;
```

```
import android.os.Bundle;
```

```
import android.view.View;
```

```
import android.view.Menu;
```

```
import com.google.android.material.snackbar.Snackbar;
```

```
import com.google.android.material.navigation.NavigationView;
```

```
import androidx.navigation.NavController;
```

```
import androidx.navigation.Navigation;
```

```
import androidx.navigation.ui.AppBarConfiguration;
```

```
import androidx.navigation.ui.NavigationUI;
```

```
import androidx.drawerlayout.widget.DrawerLayout;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import com.example.viewpay1.databinding.ActivityAdminBinding;
```

```
public class Admin extends AppCompatActivity {
```

```
    private AppBarConfiguration mAppBarConfiguration;
```

```
    private ActivityAdminBinding binding;
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
binding = ActivityAdminBinding.inflate(getLayoutInflater());
setContentView(binding.getRoot());

setSupportActionBar(binding.appBarAdmin.toolbar);

binding.appBarAdmin.fab.setOnClickListener(new
View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Snackbar.make(view, "Replace with your own action",
Snackbar.LENGTH_LONG)
            .setAction("Action", null).show();
    }
});
DrawerLayout drawer = binding.drawerLayout;
NavigationView navigationView = binding.navView;

mAppBarConfiguration = new AppBarConfiguration.Builder(
    R.id.nav_home, R.id.nav_gallery, R.id.nav_slideshow)
    .setOpenableLayout(drawer)
    .build();

NavController navController = Navigation.findNavController(this,
R.id.nav_host_fragment_content_admin);

NavigationUI.setupActionBarWithNavController(this, navController,
mAppBarConfiguration);
NavigationUI.setupWithNavController(navigationView, navController);
}
```

```
@Override
```

```
public boolean onCreateOptionsMenu(Menu menu) {
```

```
    getMenuInflater().inflate(R.menu.admin, menu);
```

```
    return true;
```

```
}
```

```
@Override
```

```
public boolean onSupportNavigateUp() {
```

```
    NavController navController = Navigation.findNavController(this,  
    R.id.nav_host_fragment_content_admin);
```

```
    return NavigationUI.navigateUp(navController, mAppBarConfiguration)
```

```
        || super.onSupportNavigateUp();
```

```
}
```

```
}
```

Activity_admin.xml:

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<androidx.drawerlayout.widget.DrawerLayout
```

```
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:id="@+id/drawer_layout"
```

```
    android:layout_width="match_parent"
```

```
    android:layout_height="match_parent"
```

```
    android:fitsSystemWindows="true"
```

```
    android:backgroundTint="@color/black"
```

```
    android:background="@color/black"
```

```
tools:openDrawer="start">
```

```
<include
```

```
    android:id="@+id/app_bar_admin"
```

```
    layout="@layout/app_bar_admin"
```

```
    android:layout_width="match_parent"
```

```
    android:layout_height="match_parent" />
```

```
<com.google.android.material.navigation.NavigationView
```

```
    android:id="@+id/nav_view"
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="match_parent"
```

```
    android:layout_gravity="start"
```

```
    android:fitsSystemWindows="true"
```

```
    app:itemIconTint="#000000"
```

```
    app:headerLayout="@layout/nav_header_admin"
```

```
    app:menu="@menu/activity_main_drawer" />
```

```
</androidx.drawerlayout.widget.DrawerLayout>
```

App_bar_admin.xml:

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<androidx.coordinatorlayout.widget.CoordinatorLayout
```

```
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:background="@color/black"
```

```
tools:context=".Admin">
```

```
<com.google.android.material.appbar.AppBarLayout  
    android:id="@+id/appBarLayout"  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:background="@color/black"  
    android:theme="@style/Theme.ViewPay1.AppBarOverlay">
```

```
</com.google.android.material.appbar.AppBarLayout>
```

```
<include layout="@layout/content_admin" />
```

```
<com.google.android.material.floatingactionbutton.FloatingActionButton  
    android:id="@+id/fab"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_gravity="bottom|end"  
    android:layout_marginEnd="@dimen/fab_margin"  
    android:backgroundTint="@color/light"  
    android:layout_marginBottom="16dp"  
    android:background="@color/black"  
    app:srcCompat="@drawable/ic_baseline_chat_24" />
```

```
<androidx.appcompat.widget.Toolbar
```

```
android:id="@+id/toolbar"
android:layout_width="match_parent"
android:layout_height="?attr/actionBarSize"
android:background="@color/light"
app:layout_anchor="@+id/appBarLayout"
app:layout_anchorGravity="center"
app:popupTheme="@style/Theme.ViewPay1.PopupOverlay">
```

```
<ImageView
```

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:src="@drawable/ic_baseline_menu_24" />
```

```
<TextView
```

```
    android:layout_width="150dp"
    android:layout_height="wrap_content"
    android:fontFamily="cursive"
    android:text="ViewPay"
    android:textAlignment="center"
    android:textColor="@color/black"
    android:textSize="30dp"
    android:textStyle="bold" />
```

```
<ImageView
```

```
    android:layout_width="100dp"
    android:layout_height="wrap_content"
    android:src="@drawable/ic_baseline_search_24"/>
```

```
<ImageView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:src="@drawable/ic_baseline_mic_24"/>
```

```
</androidx.appcompat.widget.Toolbar>
```

```
</androidx.coordinatorlayout.widget.CoordinatorLayout>
```

Nav_header_admin.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"
    android:layout_width="match_parent"
    android:layout_height="@dimen/nav_header_height"
    android:background="@color/light"
    android:gravity="bottom"
    android:orientation="vertical"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:theme="@style/ThemeOverlay.AppCompat.Dark">
```

```
<ImageView
    android:id="@+id/imageView"
```

```
android:layout_width="125dp"
android:layout_height="90dp"
android:background="@color/white"
android:contentDescription="@string/nav_header_desc"
android:paddingTop="@dimen/nav_header_vertical_spacing"
app:srcCompat="@drawable/profile" />
```

```
<TextView
```

```
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:paddingTop="@dimen/nav_header_vertical_spacing"
    android:textColor="@color/black"
    android:text="Suganya"
    android:textAppearance="@style/TextAppearance.AppCompat.Body1" />
```

```
<TextView
```

```
    android:id="@+id/textView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:textColor="@color/black"
    android:text="@string/nav_header_subtitle" />
```

```
</LinearLayout>
```

User.java:

```
package com.example.viewpay1;
```



```
import android.os.Bundle;
import android.view.View;
import android.view.Menu;

import com.google.android.material.snackbar.Snackbar;
import com.google.android.material.navigation.NavigationView;

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

import com.example.viewpay1.databinding.ActivityUserBinding;

public class User extends AppCompatActivity {

    private AppBarConfiguration mAppBarConfiguration;
    private ActivityUserBinding binding;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);

        binding = ActivityUserBinding.inflate(getLayoutInflater());
        setContentView(binding.getRoot());
```

```

        setSupportActionBar(binding.appBarUser.toolbar);
        binding.appBarUser.fab.setOnClickListener(new View.OnClickListener()
        {
            @Override
            public void onClick(View view) {
                Snackbar.make(view, "Replace with your own action",
                Snackbar.LENGTH_LONG)
                    .setAction("Action", null).show();
            }
        });
        DrawerLayout drawer = binding.drawerLayout;
        NavigationView navigationView = binding.navView;
        mAppBarConfiguration = new AppBarConfiguration.Builder(
            R.id.nav_home, R.id.nav_gallery, R.id.nav_slideshow)
            .setOpenableLayout(drawer)
            .build();
        NavController navController = Navigation.findNavController(this,
        R.id.nav_host_fragment_content_user);
        NavigationUI.setupActionBarWithNavController(this, navController,
        mAppBarConfiguration);
        NavigationUI.setupWithNavController(navigationView, navController);
    }

    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        // Inflate the menu; this adds items to the action bar if it is present.
        getMenuInflater().inflate(R.menu.user, menu);
        return true;
    }

```

```

    }

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

```

Activity_user.xml:

```

<?xml version="1.0" encoding="utf-8"?>

<androidx.drawerlayout.widget.DrawerLayout
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:id="@+id/drawer_layout"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:fitsSystemWindows="true"
    tools:openDrawer="start">

    <include
        android:id="@+id/app_bar_user"
        layout="@layout/app_bar_user"
        android:layout_width="match_parent"
        android:layout_height="match_parent" />

```

```
<com.google.android.material.navigation.NavigationView
    android:id="@+id/nav_view"
    android:layout_width="wrap_content"
    android:layout_height="match_parent"
    android:layout_gravity="start"
    android:fitsSystemWindows="true"
    app:headerLayout="@layout/nav_header_user"
    app:menu="@menu/activity_admin_drawer" />
</androidx.drawerlayout.widget.DrawerLayout>
```

Nav_header_user.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"
    android:layout_width="match_parent"
    android:layout_height="@dimen/nav_header_height"
    android:background="@color/light"
    android:gravity="bottom"
    android:orientation="vertical"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:theme="@style/ThemeOverlay.AppCompat.Dark">

<ImageView
```

```
android:id="@+id/imageView"  
android:layout_width="125dp"  
android:layout_height="90dp"  
android:background="@color/white"  
android:contentDescription="@string/nav_header_desc"  
android:paddingTop="@dimen/nav_header_vertical_spacing"  
app:srcCompat="@drawable/profile" />
```

```
<TextView
```

```
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:paddingTop="@dimen/nav_header_vertical_spacing"  
    android:textColor="@color/black"  
    android:text="Suganya"  
    android:textAppearance="@style/TextAppearance.AppCompat.Body1" />
```

```
<TextView
```

```
    android:id="@+id/textView"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:textColor="@color/black"  
    android:text="@string/nav_header_subtitle" />
```

```
</LinearLayout>
```

Activity.chat.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"
    tools:context=".Chat">

    <androidx.recyclerview.widget.RecyclerView
        android:id="@+id/recyclerView"
        android:layout_width="match_parent"
        android:layout_height="0dp"
        android:layout_weight="1"
        android:background="@color/textBackground"/>

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:background="@color/inputBackground"
        android:padding="5dp">

        <EditText
            android:id="@+id/msgInput"
            android:layout_width="0dp"
```

```
    android:layout_height="wrap_content"
    android:padding="10dp"
    android:layout_weight="1"
    android:maxLines="2"
    android:hint="@string/message"
    android:inputType="text"
    android:textSize="14sp"
    android:background="@drawable/rounded_corner"/>
```

```
<ImageButton
```

```
    android:id="@+id/msgButton"
    android:layout_width="40dp"
    android:layout_height="40dp"
    android:layout_marginLeft="5dp"
    android:background="@drawable/circular_button"
    android:src="@drawable/outline_send_white_24dp"
    android:padding="5dp"
    android:scaleType="fitCenter"/>
```

```
</LinearLayout>
```

```
</LinearLayout>
```

Activity_message.xml:

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<LinearLayout
```

```
xmlns:android="http://schemas.android.com/apk/res/android"
android:orientation="vertical"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:padding="5dp"
android:background="@color/textBackground">
```

```
<LinearLayout
```

```
    android:id="@+id/receivedLayout"
    android:orientation="vertical"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="left"
    android:background="@drawable/message_received">
```

```
<TextView
```

```
    android:id="@+id/receivedTextView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:layout_margin="10dp"
    android:textColor="#fff"/>
```

```
</LinearLayout>
```

```
<LinearLayout
```

```
    android:id="@+id/sentLayout"
```



```
android:orientation="vertical"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_gravity="right"
android:background="@drawable/message_sent">
```

```
<TextView
    android:id="@+id/sentTextView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:layout_margin="10dp"
    android:textColor="#fff"/>
```

```
</LinearLayout>
```

```
</LinearLayout>
```

getRequest.java:

```
import android.content.Context;
import android.util.Log;
import android.widget.Toast;

import com.android.volley.Request;
import com.android.volley.RequestQueue;
import com.android.volley.Response;
import com.android.volley.VolleyError;
```

```
import com.android.volley.toolbox.JsonObjectRequest;
import com.android.volley.toolbox.Volley;

import org.json.JSONException;
import org.json.JSONObject;

public class getRequest {
    private RequestQueue queue;
    private String APIkey = "[API Key]";
    private String brainID = "[Brain id]";
    private String reply;
    private char[] illegalChars = {'#', '<', '>', '$', '+', '%', '!', '~', '&',
        '*', '\\', '\"', '|', '{', '}', '/', '\\', ':', '@'};

    public getRequest(Context context){
        queue = Volley.newRequestQueue(context);
    }

    public interface VolleyResponseListener {
        void onError(String message);

        void onResponse(String reply);
    }

    private String formatMessage(String message){

        message = message.replace(' ', '-');
```

```
for(char illegalChar : illegalChars){  
    message = message.replace(illegalChar, '-');  
}  
return message;  
}
```

```
public void getResponse(String message, final VolleyResponseListener  
volleyResponseListener){  
    message = formatMessage(message);  
  
    String url = "http://api.brainshop.ai/get?bid=" + brainID+ "&key=" +  
APIkey + "&uid=1&msg=" + message;  
  
    Log.d("URL", url);  
  
    JSONObjectRequest request = new  
JSONObjectRequest(Request.Method.GET, url, null,  
        new Response.Listener<JSONObject>(){  
            @Override  
            public void onResponse(JSONObject response){  
                try {  
                    reply = response.getString("cnt");  
                    Log.d("RESPONSE", reply);  
                    volleyResponseListener.onResponse(reply);  
  
                } catch (JSONException e) {  
                    e.printStackTrace();  
                    volleyResponseListener.onError("JSON Exception");  
                }  
            }  
        }  
    )  
}
```

```

    },
    new Response.ErrorListener(){
        @Override
        public void onErrorResponse(VolleyError error){
            error.printStackTrace();
            volleyResponseListener.onError("Volley Error");
        }
    });
    queue.add(request);
}
}

```

Chat.java:

```

import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.ImageButton;

import java.util.ArrayList;

public class MainActivity extends AppCompatActivity {
    private ArrayList<Message> messages;
    private RecyclerView recyclerView;
    private recyclerAdapter adapter;

```

```
private ImageButton sendButton;
private EditText msgInput;
private getRequest request;

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

    request = new getRequest(this);

    recyclerView = findViewById(R.id.recyclerView);
    // Set RecyclerView layout manager.
    RecyclerView.LayoutManager layoutManager = new
LinearLayoutManager(this);
    recyclerView.setLayoutManager(layoutManager);
    // Set an animation
    recyclerView.setItemAnimator(new DefaultItemAnimator());

    messages = new ArrayList<>();
    adapter = new recyclerAdapter(messages);
    recyclerView.setAdapter(adapter);

    sendButton = (ImageButton) findViewById(R.id.msgButton);
    msgInput = (EditText) findViewById(R.id.msgInput);

    sendButton.setOnClickListener(new View.OnClickListener() {
        @Override
```

```

public void onClick(View v) {
    String message = msgInput.getText().toString();
    if(message.length() != 0){
        messages.add(new Message(true, message));
        int newPosition = messages.size() - 1;
        adapter.notifyItemInserted(newPosition);
        recyclerView.scrollToPosition(newPosition);
        msgInput.setText("");
        getReply(message);
    }
}

});

}

private void getReply(String message) {
    request.getResponse(message, new getRequest.VolleyResponseListener()
    {
        @Override
        public void onError(String message) {
            Log.d("REQUEST ERROR", message);
        }

        @Override
        public void onResponse(String reply) {
            messages.add(new Message(false, reply));
            int newPosition = messages.size() - 1;

```

```
        adapter.notifyItemInserted(newPosition);
        recyclerView.scrollToPosition(newPosition);
    }
});

}

}
```

Message.java:

```
public class Message {
    // Type 0 for sent, 1 for received
    private boolean type;
    // Message content
    private String message;

    public Message(boolean type, String message) {
        this.type = type;
        this.message = message;
    }

    public String getMessage() {
        return message;
    }

    public boolean getType() {
        return this.type;
    }
}
```

```
public void setMessage(String message) {  
    this.message = message;  
}  
  
public void setType(boolean type) {  
    this.type = type;  
}  
}
```

recycleAdapter.java:

```
import android.view.LayoutInflater;  
import android.view.View;  
import android.view.ViewGroup;  
import android.widget.LinearLayout;  
import android.widget.TextView;  
  
import androidx.annotation.NonNull;  
import androidx.recyclerview.widget.RecyclerView;  
  
import java.util.ArrayList;  
  
public class recycleAdapter extends  
RecyclerView.Adapter<recycleAdapter.MessageViewHolder> {  
    private ArrayList<Message> messages;  
  
    public recycleAdapter(ArrayList<Message> messages){
```



```
    this.messages = messages;
}
```

```
public class MessageViewHolder extends RecyclerView.ViewHolder {
    private LinearLayout sentLayout;
    private LinearLayout receivedLayout;
    private TextView sentText;
    private TextView receivedText;

    public MessageViewHolder(final View itemView) {
        super(itemView);
        sentLayout = itemView.findViewById(R.id.sentLayout);
        receivedLayout = itemView.findViewById(R.id.receivedLayout);
        sentText = itemView.findViewById(R.id.sentTextView);
        receivedText= itemView.findViewById(R.id.receivedTextView);
    }
}
```

@NonNull

@Override

```
public recyclerAdapter.MessageViewHolder
onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {
    View itemView =
    LayoutInflater.from(parent.getContext()).inflate(R.layout.message, parent,
    false);
    return new MessageViewHolder(itemView);
}
```

@Override

```
public void onBindViewHolder(@NonNull
recyclerViewAdapter.MessageViewHolder holder, int position) {

    String message = messages.get(position).getMessage();
    boolean type = messages.get(position).getType();

    if(type){
        //If a message is sent
        holder.sentLayout.setVisibility(LinearLayout.VISIBLE);
        holder.sentText.setText(message);
        // Set visibility as GONE to remove the space taken up
        holder.receivedLayout.setVisibility(LinearLayout.GONE);
    }
    else{
        //Message is received
        holder.receivedLayout.setVisibility(LinearLayout.VISIBLE);
        holder.receivedText.setText(message);
        // Set visibility as GONE to remove the space taken up
        holder.sentLayout.setVisibility(LinearLayout.GONE);
    }
}
```

@Override

```
public int getItemCount() {
    return messages.size();
}
}
```

Profile_main.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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:background="@color/grey"
    android:orientation="vertical"
    tools:context=".ProfileActivity">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="240dp"
        android:background="#293859" />

    <!--Top Header Layout-->
    <LinearLayout
        android:id="@+id/topbar"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:gravity="center_vertical"
        android:padding="16dp">

        <ImageView
            android:layout_width="40dp"
```

```
android:layout_height="40dp"  
android:padding="10dp"  
android:src="@drawable/ic_arrow_back_24dp" />
```

<Space

```
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_weight="1" />
```

<TextView

```
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:text="Profile"  
android:textColor="@color/white"  
android:textSize="20sp"  
android:textStyle="bold" />
```

<Space

```
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_weight="1" />
```

<RelativeLayout

```
android:layout_width="50dp"  
android:layout_height="50dp">
```

<ImageView

```
android:layout_width="40dp"
android:layout_height="40dp"
android:layout_centerInParent="true"
android:padding="6dp"
android:src="@drawable/ic_notifications_white_24dp" />
```

```
<ImageView
```

```
    android:layout_width="20dp"
    android:layout_height="20dp"
    android:layout_alignParentTop="true"
    android:layout_alignParentEnd="true"
    android:layout_margin="8dp"
    android:padding="4dp"
    android:src="@drawable/circleyellowfil" />
```

```
</RelativeLayout>
```

```
</LinearLayout>
```

```
<ScrollView
```

```
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:scrollbars="none"
    android:layout_below="@+id/topbar">
```

```
<LinearLayout
```

```
    android:layout_width="match_parent"
    android:layout_height="match_parent"
```

```
android:orientation="vertical"
android:paddingLeft="20dp"
android:paddingTop="10dp"
android:paddingRight="20dp">
```

```
<!--Top Profile Section -->
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:background="@drawable/circularbordersolid"
    android:gravity="center"
    android:orientation="vertical"
    android:padding="16dp">
```

```
<androidx.cardview.widget.CardView
    android:layout_width="150dp"
    android:layout_height="90dp"
    app:cardCornerRadius="6dp"
    app:cardElevation="0dp">
```

```
<ImageView
    android:layout_width="150dp"
    android:layout_height="90dp"
    android:scaleType="centerCrop"
    android:src="@drawable/pp" />
```

```
</androidx.cardview.widget.CardView>
```

```
<LinearLayout
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:orientation="vertical">
```

```
    <TextView
```

```
        android:layout_width="wrap_content"
```

```
        android:layout_height="wrap_content"
```

```
        android:layout_marginTop="10dp"
```

```
        android:fontFamily="@font/proximanovaregular"
```

```
        android:text="Sanskar Tiwari"
```

```
        android:textColor="#424242"
```

```
        android:textSize="21sp"
```

```
        android:textStyle="bold" />
```

```
    <TextView
```

```
        android:layout_width="wrap_content"
```

```
        android:layout_height="wrap_content"
```

```
        android:fontFamily="@font/proximanovaregular"
```

```
        android:text="Android Developer"
```

```
        android:textSize="14sp" />
```

```
</LinearLayout>
```

```
<LinearLayout
```

```
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginTop="10dp"
android:paddingBottom="10dp">
```

```
<LinearLayout
```

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="2"
    android:gravity="center"
    android:padding="8dp">
```

```
<ImageView
```

```
    android:layout_width="35dp"
    android:layout_height="35dp"
    android:background="@drawable/circular_grey_bordersolid"
    android:padding="10dp"
    android:src="@drawable/tickinsidecircle" />
```

```
<LinearLayout
```

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="10dp"
    android:orientation="vertical">
```

```
<TextView
```

```
    android:layout_width="wrap_content"
```



```
        android:layout_height="wrap_content"
        android:text="97%"
        android:textSize="12sp"
        android:textStyle="bold" />
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="2dp"
    android:text="@string/job_success"
    android:textSize="12sp" />
```

```
</LinearLayout>
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="2"
    android:gravity="center"
    android:padding="8dp">
```

```
<ImageView
    android:layout_width="35dp"
    android:layout_height="35dp"
    android:background="@drawable/circular_grey_bordersolid"
    android:padding="10dp"
    android:src="@drawable/star" />
```

```
<LinearLayout
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="10dp"
    android:orientation="vertical">
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="4.8/5"
    android:textSize="12sp"
    android:textStyle="bold" />
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="2dp"
    android:text="@string/ratings"
    android:textSize="12sp" />
```

```
</LinearLayout>
```

```
</LinearLayout>
```

```
</LinearLayout>
```

```
</LinearLayout>
```

```
<!--Option Bar-->
```

<LinearLayout

android:layout_width="match_parent"

android:layout_height="wrap_content"

android:layout_marginTop="10dp"

android:layout_marginBottom="10dp"

android:background="@drawable/circularbordersolid"

android:gravity="center"

android:orientation="horizontal">

<TextView

android:id="@+id/personalinfobtn"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_weight="2"

android:fontFamily="@font/proximanovaregular"

android:gravity="center"

android:padding="13dp"

android:text="User Info"

android:textAllCaps="true"

android:textColor="@color/blue"

android:textSize="14sp"

android:textStyle="bold" />

<LinearLayout

android:layout_width="1dp"

android:layout_height="match_parent"

```
android:background="@color/lightgrey" />
```

```
<TextView
```

```
    android:id="@+id/experiencebtn"
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:layout_weight="2"
```

```
    android:fontFamily="@font/proximanovaregular"
```

```
    android:gravity="center"
```

```
    android:padding="13dp"
```

```
    android:text="Experience"
```

```
    android:textAllCaps="true"
```

```
    android:textColor="@color/lightgrey"
```

```
    android:textSize="14sp"
```

```
    android:textStyle="bold" />
```

```
<LinearLayout
```

```
    android:layout_width="1dp"
```

```
    android:layout_height="match_parent"
```

```
    android:background="@color/lightgrey" />
```

```
<TextView
```

```
    android:id="@+id/reviewbtn"
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:layout_weight="2"
```

```
    android:fontFamily="@font/proximanovaregular"
```

```
        android:gravity="center"
        android:padding="13dp"
        android:text="Review"
        android:textAllCaps="true"
        android:textColor="@color/lightgrey"
        android:textSize="14sp"
        android:textStyle="bold" />
```

```
</LinearLayout>
```

```
<!--Bottom Cards with sections-->
```

```
<LinearLayout
```

```
    android:id="@+id/personalinfo"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical">
```

```
<!--About Me Card-->
```

```
<LinearLayout
```

```
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:background="@drawable/circularbordersolid"
    android:orientation="vertical"
    android:padding="16dp">
```

```
<LinearLayout
```

```
    android:layout_width="match_parent"
```

```
android:layout_height="wrap_content"  
android:orientation="vertical">
```

```
<LinearLayout  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content">
```

```
<TextView  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:text="@string/about_me"  
    android:fontFamily="@font/proximanovaregular"  
    android:textSize="17sp"  
    android:textStyle="bold" />
```

```
<Space  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_weight="1" />
```

```
<TextView  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:text="Edit"  
    android:fontFamily="@font/proximanovaregular"  
    android:textColor="#FFCF66"  
    android:layout_marginEnd="10dp"
```

```
        android:textSize="14sp" />
    </LinearLayout>
```

```
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="10dp"
        android:text="@string/my_desc" />
</LinearLayout>
```

```
</LinearLayout>
```

```
<!--Contact Details-->
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="10dp"
    android:background="@drawable/circularbordersolid"
    android:orientation="vertical"
    android:padding="16dp">
```

```
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content">
```

```
        <TextView
            android:layout_width="wrap_content"
```

```
        android:layout_height="wrap_content"
        android:text="@string/contact"
        android:textSize="17sp"
        android:fontFamily="@font/proximanovaregular"
        android:textStyle="bold" />
```

```
<Space
```

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1" />
```

```
<TextView
```

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Edit"
    android:textColor="#FFCF66"
    android:layout_marginEnd="10dp"
    android:textSize="14sp" />
```

```
</LinearLayout>
```

```
<LinearLayout
```

```
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="10dp"
    android:orientation="vertical">
```

```
<LinearLayout
```



```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:gravity="center_vertical"
android:paddingRight="8dp">
```

```
<ImageView
```

```
    android:layout_width="40dp"
    android:layout_height="40dp"
```

```
android:background="@drawable/circular_grey_bordersolid"
    android:padding="10dp"
    android:src="@drawable/ic_call_24dp" />
```

```
<TextView
```

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="20dp"
    android:text="+91 7999193854"
    android:textSize="15sp"
    android:textColor="@color/goodgrey"
    android:fontFamily="@font/proximanovaregular" />
```

```
</LinearLayout>
```

```
<LinearLayout
```

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="10dp"
    android:gravity="center_vertical"
```

```
android:paddingRight="8dp">
```

```
<ImageView
```

```
    android:layout_width="40dp"
```

```
    android:layout_height="40dp"
```

```
    android:background="@drawable/circular_grey_bordersolid"
```

```
    android:padding="10dp"
```

```
    android:src="@drawable/ic_email_24dp" />
```

```
<TextView
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:layout_marginLeft="20dp"
```

```
    android:textColor="@color/goodgrey"
```

```
    android:text="sanskar@theindianappguy.com"
```

```
    android:textSize="15sp"
```

```
    android:fontFamily="@font/proximanovaregular" />
```

```
</LinearLayout>
```

```
<LinearLayout
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:layout_marginTop="10dp"
```

```
    android:gravity="center_vertical"
```

```
    android:paddingRight="8dp">
```

```
<ImageView
```

```
        android:layout_width="40dp"
        android:layout_height="40dp"

        android:background="@drawable/circular_grey_bordersolid"
        android:padding="10dp"
        android:src="@drawable/ic_location_24dp" />

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="20dp"
    android:text="Leeds, United Kingdom"
    android:textSize="15sp"
    android:textColor="@color/goodgrey"
    android:fontFamily="@font/proximanovaregular" />
</LinearLayout>

</LinearLayout>
</LinearLayout>

<!--Skills Details-->
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="10dp"
    android:background="@drawable/circularbordersolid"
    android:orientation="vertical"
    android:padding="16dp">
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content">
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="@string/skills"
    android:textSize="17sp"
    android:textStyle="bold" />
```

```
<Space
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1" />
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Edit"
    android:textColor="#FFCF66"
    android:textSize="14sp" />
```

```
</LinearLayout>
```

```
<LinearLayout
```

```
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginTop="10dp"
android:orientation="vertical">
```

```
<LinearLayout
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:gravity="center_vertical"
    android:paddingRight="8dp">
```

```
<ImageView
    android:layout_width="40dp"
    android:layout_height="40dp"
```

```
    android:background="@drawable/circular_grey_bordersolid"
    android:padding="10dp"
    android:src="@drawable/paintbrush" />
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="20dp"
    android:text="Expert in Photoshop, Adobe XD"
    android:textSize="15sp"/>
```

```
</LinearLayout>
```

```
<LinearLayout
```

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="10dp"
android:gravity="center_vertical"
android:paddingRight="8dp">
```

```
<ImageView
```

```
    android:layout_width="40dp"
    android:layout_height="40dp"
```

```
android:background="@drawable/circular_grey_bordersolid"
    android:padding="10dp"
    android:src="@drawable/ic_email_24dp" />
```

```
<TextView
```

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="20dp"
    android:text="sanskar@theindianappguy.com"
    android:textSize="15sp" />
```

```
</LinearLayout>
```

```
<LinearLayout
```

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="10dp"
    android:gravity="center_vertical"
    android:paddingRight="8dp">
```

```
        <ImageView
            android:layout_width="40dp"
            android:layout_height="40dp"

android:background="@drawable/circular_grey_bordersolid"
            android:padding="10dp"
            android:src="@drawable/ic_location_24dp" />
```

```
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginLeft="20dp"
            android:text="Leeds, United Kingdom"
            android:textSize="15sp" />
    </LinearLayout>
```

```
    </LinearLayout>
</LinearLayout>
</LinearLayout>
```

```
<!--Experience Bottom Cards-->
<LinearLayout
    android:id="@+id/experience"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical">
```

<LinearLayout

```
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:background="@drawable/circularbordersolid"
    android:orientation="horizontal"
    android:padding="20dp">
```

<LinearLayout

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="2"
    android:gravity="center_vertical">
```

<ImageView

```
    android:layout_width="40dp"
    android:layout_height="40dp"
    android:padding="6dp"
    android:src="@drawable/playstore" />
```

<LinearLayout

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="10dp"
    android:orientation="vertical">
```

<TextView


```
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:fontFamily="@font/proximanovaregular"
        android:text="Android Developer"
        android:textSize="14sp"
        android:textStyle="bold" />
```

```
<TextView
```

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="3dp"
    android:fontFamily="@font/proximanovaregular"
    android:text="at TheIndianAppGuy"
    android:textSize="12sp" />
```

```
</LinearLayout>
```

```
</LinearLayout>
```

```
<LinearLayout
```

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="10dp"
    android:gravity="center_vertical">
```

```
<ImageView
```

```
    android:layout_width="9dp"
    android:layout_height="9dp"
    android:padding="1dp"
```

```
        android:src="@drawable/circleyellowfil" />
```

```
    <TextView
```

```
        android:layout_width="wrap_content"
```

```
        android:layout_height="wrap_content"
```

```
        android:layout_marginStart="5dp"
```

```
        android:text="Sep 2010 - Jan 2013"
```

```
        android:textSize="12sp"
```

```
        android:textStyle="bold" />
```

```
    </LinearLayout>
```

```
</LinearLayout>
```

```
<LinearLayout
```

```
    android:layout_width="match_parent"
```

```
    android:layout_height="wrap_content"
```

```
    android:layout_marginTop="10dp"
```

```
    android:background="@drawable/circularbordersolid"
```

```
    android:orientation="horizontal"
```

```
    android:padding="20dp">
```

```
    <LinearLayout
```

```
        android:layout_width="wrap_content"
```

```
        android:layout_height="wrap_content"
```

```
        android:layout_weight="2"
```

```
        android:gravity="center_vertical">
```

```
<ImageView  
    android:layout_width="40dp"  
    android:layout_height="40dp"  
    android:padding="6dp"  
    android:src="@drawable/android" />
```

```
<LinearLayout  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_marginLeft="10dp"  
    android:orientation="vertical">
```

```
<TextView  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:fontFamily="@font/proximanovaregular"  
    android:text="Android Developer"  
    android:textSize="14sp"  
    android:textStyle="bold" />
```

```
<TextView  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_marginTop="3dp"  
    android:fontFamily="@font/proximanovaregular"  
    android:text="at TheIndianAppGuy"  
    android:textSize="12sp" />
```

```
</LinearLayout>
```

```
</LinearLayout>
```

```
<LinearLayout
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:layout_marginLeft="10dp"
```

```
    android:gravity="center_vertical">
```

```
    <ImageView
```

```
        android:layout_width="9dp"
```

```
        android:layout_height="9dp"
```

```
        android:padding="1dp"
```

```
        android:src="@drawable/circleyellowfil" />
```

```
    <TextView
```

```
        android:layout_width="wrap_content"
```

```
        android:layout_height="wrap_content"
```

```
        android:layout_marginStart="5dp"
```

```
        android:text="Sep 2010 - Jan 2013"
```

```
        android:textSize="12sp"
```

```
        android:textStyle="bold" />
```

```
</LinearLayout>
```

```
</LinearLayout>
```

```
<LinearLayout
```

```
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginTop="10dp"
android:background="@drawable/circularbordersolid"
android:orientation="horizontal"
android:padding="20dp">
```

```
<LinearLayout
```

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="2"
    android:gravity="center_vertical">
```

```
<ImageView
```

```
    android:layout_width="40dp"
    android:layout_height="40dp"
    android:padding="6dp"
    android:src="@drawable/search" />
```

```
<LinearLayout
```

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="10dp"
    android:orientation="vertical">
```

```
<TextView
```

```
    android:layout_width="wrap_content"
```

```
        android:layout_height="wrap_content"
        android:fontFamily="@font/proximanovaregular"
        android:text="Android Developer"
        android:textSize="14sp"
        android:textStyle="bold" />
```

```
<TextView
```

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="3dp"
    android:fontFamily="@font/proximanovaregular"
    android:text="at TheIndianAppGuy"
    android:textSize="12sp" />
```

```
</LinearLayout>
```

```
</LinearLayout>
```

```
<LinearLayout
```

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="10dp"
    android:gravity="center_vertical">
```

```
<ImageView
```

```
    android:layout_width="9dp"
    android:layout_height="9dp"
    android:padding="1dp"
    android:src="@drawable/circleyellowfil" />
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="5dp"
    android:text="Sep 2010 - Jan 2013"
    android:textSize="12sp"
    android:textStyle="bold" />
```

```
</LinearLayout>
```

```
</LinearLayout>
```

```
</LinearLayout>
```

```
<!--Review Bottom Cards-->
```

```
<LinearLayout
    android:id="@+id/review"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical">
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:background="@drawable/circularbordersolid"
    android:orientation="horizontal"
```

```
android:padding="20dp">
```

```
<LinearLayout
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:layout_weight="2"
```

```
    android:gravity="center_vertical">
```

```
<androidx.cardview.widget.CardView
```

```
    android:layout_width="70dp"
```

```
    android:layout_height="70dp"
```

```
    app:cardCornerRadius="6dp"
```

```
    app:cardElevation="0dp">
```

```
<ImageView
```

```
    android:layout_width="70dp"
```

```
    android:layout_height="70dp"
```

```
    android:scaleType="centerCrop"
```

```
    android:src="@drawable/person1" />
```

```
</androidx.cardview.widget.CardView>
```

```
<LinearLayout
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:layout_marginLeft="10dp"
```

```
    android:orientation="vertical">
```



```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:fontFamily="@font/proximanovaregular"
    android:maxLines="3"
    android:text="@string/samplerreview"
    android:textSize="14sp" />
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="3dp"
    android:fontFamily="@font/proximanovaregular"
    android:text="Saswat Tiwari"
    android:textSize="12sp"
    android:textStyle="bold" />
```

```
</LinearLayout>
```

```
</LinearLayout>
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="10dp"
```

```
android:background="@drawable/circularbordersolid"  
android:orientation="horizontal"  
android:padding="20dp">
```

```
<LinearLayout  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_weight="2"  
    android:gravity="center_vertical">
```

```
<androidx.cardview.widget.CardView  
    android:layout_width="70dp"  
    android:layout_height="70dp"  
    app:cardCornerRadius="6dp"  
    app:cardElevation="0dp">
```

```
<ImageView  
    android:layout_width="70dp"  
    android:layout_height="70dp"  
    android:scaleType="centerCrop"  
    android:src="@drawable/person2" />
```

```
</androidx.cardview.widget.CardView>
```

```
<LinearLayout  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"
```

```
        android:layout_marginLeft="10dp"
        android:orientation="vertical">
```

```
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:maxLines="3"
        android:text="@string/samplerreview"
        android:textSize="14sp" />
```

```
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="3dp"
        android:text="Mr Sk TATA"
        android:textSize="12sp"
        android:textStyle="bold" />
```

```
</LinearLayout>
```

```
</LinearLayout>
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="10dp"
```

```
android:background="@drawable/circularbordersolid"  
android:orientation="horizontal"  
android:padding="20dp">
```

```
<LinearLayout  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_weight="2"  
    android:gravity="center_vertical">
```

```
<androidx.cardview.widget.CardView  
    android:layout_width="70dp"  
    android:layout_height="70dp"  
    app:cardCornerRadius="6dp"  
    app:cardElevation="0dp">
```

```
<ImageView  
    android:layout_width="70dp"  
    android:layout_height="70dp"  
    android:scaleType="centerCrop"  
    android:src="@drawable/person3" />
```

```
</androidx.cardview.widget.CardView>
```

```
<LinearLayout  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"
```

```
        android:layout_marginLeft="10dp"
        android:orientation="vertical">
```

```
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:maxLines="3"
        android:text="@string/samplerreview"
        android:textSize="14sp" />
```

```
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="3dp"
        android:text="Shikha Tiwari"
        android:textSize="12sp"
        android:textStyle="bold" />
```

```
</LinearLayout>
```

```
</LinearLayout>
```

```
</LinearLayout>
```

```
</LinearLayout>
```

```
</LinearLayout>
```

```
</ScrollView>
```

```
</RelativeLayout>
```

Profile.java:

```
import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.LinearLayout;
import android.widget.TextView;

public class ProfileActivity extends AppCompatActivity {

    LinearLayout personalinfo, experience, review;
    TextView personalinfobtn, experiencebtn, reviewbtn;

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

        personalinfo = findViewById(R.id.personalinfo);
        experience = findViewById(R.id.experience);
        review = findViewById(R.id.review);
        personalinfobtn = findViewById(R.id.personalinfobtn);
        experiencebtn = findViewById(R.id.experiencebtn);
        reviewbtn = findViewById(R.id.reviewbtn);
        /*making personal info visible*/
        personalinfo.setVisibility(View.VISIBLE);
    }
}
```

```
experience.setVisibility(View.GONE);  
review.setVisibility(View.GONE);
```

```
personalinfobtn.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
  
        personalinfo.setVisibility(View.VISIBLE);  
        experience.setVisibility(View.GONE);  
        review.setVisibility(View.GONE);  
        personalinfobtn.setTextColor(getResources().getColor(R.color.blue));  
        experiencebtn.setTextColor(getResources().getColor(R.color.grey));  
        reviewbtn.setTextColor(getResources().getColor(R.color.grey));  
  
    }  
});
```

```
experiencebtn.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
  
        personalinfo.setVisibility(View.GONE);  
        experience.setVisibility(View.VISIBLE);  
        review.setVisibility(View.GONE);  
        personalinfobtn.setTextColor(getResources().getColor(R.color.grey));  
        experiencebtn.setTextColor(getResources().getColor(R.color.blue));
```

```

        reviewbtn.setTextColor(getResources().getColor(R.color.grey));

    }

});

reviewbtn.setOnClickListener(new View.OnClickListener() {

    @Override

    public void onClick(View v) {

        personalinfo.setVisibility(View.GONE);
        experience.setVisibility(View.GONE);
        review.setVisibility(View.VISIBLE);
        personalinfobtn.setTextColor(getResources().getColor(R.color.grey));
        experiencebtn.setTextColor(getResources().getColor(R.color.grey));
        reviewbtn.setTextColor(getResources().getColor(R.color.blue));

    }

});

}

}

```

CustomerAdapter.java:

```

import android.content.Context;
import android.graphics.Color;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;

```



```
import android.widget.TextView;
```

```
import androidx.annotation.NonNull;
```

```
import androidx.recyclerview.widget.RecyclerView;
```

```
import java.util.List;
```

```
public class CustomeAdapter_history extends  
RecyclerView.Adapter<ViewHolder> {
```

```
    history_list HistoryList;
```

```
    List<Model> modelList;
```

```
    Context context;
```

```
    TextView mTransc_status;
```

```
    public CustomeAdapter_history(history_list historyList, List<Model>  
modelList) {
```

```
        this.HistoryList = historyList;
```

```
        this.modelList = modelList;
```

```
    }
```

```
    @NonNull
```

```
    @Override
```

```
    public ViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int  
viewType) {
```

```
View itemView =  
LayoutInflater.from(parent.getContext()).inflate(R.layout.transfer_history_list,  
parent, false);
```

```
mTransc_status = itemView.findViewById(R.id.transaction_status);
```

```
ViewHolder viewHolder = new ViewHolder(itemView);  
viewHolder.setOnClickListener(new ViewHolder.ClickListener() {  
    @Override  
    public void onItemClick(View view, int position) {  
  
    }  
});
```

```
return viewHolder;  
}
```

```
@Override  
public void onBindViewHolder(@NonNull ViewHolder holder, int position)  
{  
    holder.mName1.setText(modelList.get(position).getName1());  
    holder.mName2.setText(modelList.get(position).getName2());  
    holder.mBalance.setText(modelList.get(position).getBalance());  
    holder.mDate.setText(modelList.get(position).getDate());  
  
    holder.mTransc_status.setText(modelList.get(position).getTransaction_status())  
    ;
```

```
    if(modelList.get(position).getTransaction_status().equals("Failed")){
```

```
        holder.mTransc_status.setTextColor(Color.parseColor("#f40404"));
    }else{
        holder.mTransc_status.setTextColor(Color.parseColor("#4BB543"));
    }
}
```

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

CustomerAdapter_sendertour.java

```
import android.content.Context;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;

import androidx.annotation.NonNull;
import androidx.recyclerview.widget.RecyclerView;

import java.util.ArrayList;
import java.util.List;

public class CustomeAdapter_sendtouser extends
RecyclerView.Adapter<ViewHolder> {
```

```

sendtouser SendtoUser;
List<Model> modelList;
Context context;

public CustomeAdapter_sendtouser(sendtouser sentoUser, List<Model>
modelList) {
    this.SendtoUser = sentoUser;
    this.modelList = modelList;
}

@NonNull
@Override
public ViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int
viewType) {

    View itemView =
LayoutInflater.from(parent.getContext()).inflate(R.layout.userslist, parent,
false);

    ViewHolder viewHolder = new ViewHolder(itemView);
    viewHolder.setOnClickListener(new ViewHolder.ClickListener() {
        @Override
        public void onItemClick(View view, int position) {
            SendtoUser.selectuser(position);
        }
    });

    return viewHolder;
}

```

```
@Override
public void onBindViewHolder(@NonNull ViewHolder holder, int position)
{
    holder.mName.setText(modelList.get(position).getName());
    holder.mPhonenumber.setText(modelList.get(position).getPhoneno());
    holder.mBalance.setText(modelList.get(position).getBalance());
}
```

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

public void setFilter(ArrayList<Model> newList){
    modelList = new ArrayList<>();
    modelList.addAll(newList);
    notifyDataSetChanged();
}
}
```

CustomerAdapter_userlist.java:

```
import android.content.Context;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import androidx.annotation.NonNull;
```

```
import androidx.recyclerview.widget.RecyclerView;
```

```
import java.util.List;
```

```
public class CustomeAdapter_userlist extends  
RecyclerView.Adapter<ViewHolder> {
```

```
    user_list UserList;
```

```
    List<Model> modelList;
```

```
    Context context;
```

```
    public CustomeAdapter_userlist(user_list userList, List<Model> modelList)  
{  
        this.UserList = userList;  
        this.modelList = modelList;  
    }
```

```
    @NonNull
```

```
    @Override
```

```
    public ViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int  
viewType) {
```

```
        View itemView =  
        LayoutInflater.from(parent.getContext()).inflate(R.layout.userslist, parent,  
false);
```

```
        ViewHolder viewHolder = new ViewHolder(itemView);
```

```
        viewHolder.setOnClickListener(new ViewHolder.ClickListener() {
```

```
            @Override
```

```

        public void onItemClick(View view, int position) {
            UserList.nextActivity(position);
        }
    });

    return viewHolder;
}

@Override
public void onBindViewHolder(@NonNull ViewHolder holder, int position)
{
    holder.mName.setText(modelList.get(position).getName());
    holder.mPhonenumber.setText(modelList.get(position).getPhoneno());
    holder.mBalance.setText(modelList.get(position).getBalance());
}

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

```

Transaction.java:

```

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;

```

```
import android.widget.Button;

public class MainActivity extends AppCompatActivity {

    Button view_users;

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

        view_users = findViewById(R.id.view_users);

        view_users.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                startActivity(new Intent(MainActivity.this, user_list.class));
                finish();
            }
        });
    }
}
```

DataHelper.java:

```
import android.content.ContentValues;
import android.content.Context;
import android.database.Cursor;
```



```

import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;

import androidx.annotation.Nullable;

public class DatabaseHelper extends SQLiteOpenHelper {

    private String TABLE_NAME = "user_table";
    private String TABLE_NAME1 = "transfers_table";

    public DatabaseHelper(@Nullable Context context) {
        super(context, "User.db", null, 1);
    }

    @Override
    public void onCreate(SQLiteDatabase db) {

        db.execSQL("create table " + TABLE_NAME + " (PHONENUMBER
        INTEGER PRIMARY KEY ,NAME TEXT,BALANCE DECIMAL,EMAIL
        VARCHAR,ACCOUNT_NO VARCHAR,IFSC_CODE VARCHAR)");

        db.execSQL("create table " + TABLE_NAME1 + " (TRANSACTIONID
        INTEGER PRIMARY KEY AUTOINCREMENT,DATE TEXT,FROMNAME
        TEXT,TONAME TEXT,AMOUNT DECIMAL,STATUS TEXT)");

        db.execSQL("insert into user_table
        values(1234567890,'Joey',9472.00,'jory.02@gmail.com','XXXXXXXXXXXXX1
        234','ABC09876543')");

        db.execSQL("insert into user_table
        values(2345678901,'Chandler',582.67,'chandi.03@gmail.com','XXXXXXXXXX
        XXX2341','BCA98765432')");

        db.execSQL("insert into user_table values(3456789012,'Monica
        Gellar',1359.56,'mongellar.04@gmail.com','XXXXXXXXXXXXX3412','CAB87
        654321')");
    }

```

```
db.execSQL("insert into user_table values(4567890123,'Rachel  
Green',1500.01,'greenrach.05@gmail.com','XXXXXXXXXXXXX4123','ABC76  
543210')");
```

```
db.execSQL("insert into user_table  
values(5678901234,'Ben',2603.48,'bengellar.06@gmail.com','XXXXXXXXXXXXX  
XX2345','BCA65432109')");
```

```
db.execSQL("insert into user_table  
values(6789012345,'Guna',945.16,'guna.07@gmail.com','XXXXXXXXXXXXX3  
452','CAB54321098')");
```

```
db.execSQL("insert into user_table  
values(7890123456,'sammy',5936.00,'sam.08@gmail.com','XXXXXXXXXXXXX  
X4523','ABC43210987')");
```

```
db.execSQL("insert into user_table  
values(8901234567,'Janice',857.22,'jannu.09@gmail.com','XXXXXXXXXXXXX  
X5234','BCA32109876')");
```

```
db.execSQL("insert into user_table  
values(9012345678,'Amy',4398.46,'amy.10@gmail.com','XXXXXXXXXXXXX  
3456','CAB21098765')");
```

```
db.execSQL("insert into user_table  
values(1234567809,'Pickles',273.90,'piccy.01@gmail.com','XXXXXXXXXXXXX  
X4563','ABC10987654')");
```

```
}
```

@Override

```
public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion)  
{  
  
    db.execSQL("DROP TABLE IF EXISTS "+TABLE_NAME);  
    db.execSQL("DROP TABLE IF EXISTS "+TABLE_NAME1);  
    onCreate(db);  
}
```

```
public Cursor readalldata(){
```

```
    SQLiteDatabase db = this.getWritableDatabase();  
    Cursor cursor = db.rawQuery("select * from user_table", null);  
    return cursor;  
}
```

```
public Cursor readparticulardata(String phonenumber){  
    SQLiteDatabase db = this.getWritableDatabase();  
    Cursor cursor = db.rawQuery("select * from user_table where  
    phonenumber = " + phonenumber, null);  
    return cursor;  
}
```

```
public Cursor readselectuserdata(String phonenumber) {  
    SQLiteDatabase db = this.getWritableDatabase();  
    Cursor cursor = db.rawQuery("select * from user_table except select *  
    from user_table where phonenumber = " + phonenumber, null);  
    return cursor;  
}
```

```
public void updateAmount(String phonenumber, String amount){  
    SQLiteDatabase db = this.getWritableDatabase();  
    db.execSQL("update user_table set balance = " + amount + " where  
    phonenumber = " + phonenumber);  
}
```

```
public Cursor readtransferdata(){  
    SQLiteDatabase db = this.getWritableDatabase();  
    Cursor cursor = db.rawQuery("select * from transfers_table", null);
```

```

        return cursor;
    }

    public boolean insertTransferData(String date,String from_name, String
to_name, String amount, String status){
        SQLiteDatabase db = this.getWritableDatabase();
        ContentValues contentValues = new ContentValues();
        contentValues.put("DATE", date);
        contentValues.put("FROMNAME", from_name);
        contentValues.put("TONAME", to_name);
        contentValues.put("AMOUNT", amount);
        contentValues.put("STATUS", status);
        Long result = db.insert(TABLE_NAME1, null, contentValues);
        if(result == -1){
            return false;
        }else{
            return true;
        }
    }
}

```

History_list.java:

```

import android.content.Intent;
import android.database.Cursor;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;

```

```
import android.widget.TextView;
```

```
import androidx.annotation.NonNull;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import androidx.recyclerview.widget.LinearLayoutManager;
```

```
import androidx.recyclerview.widget.RecyclerView;
```

```
import java.text.NumberFormat;
```

```
import java.util.ArrayList;
```

```
import java.util.List;
```

```
public class history_list extends AppCompatActivity {
```

```
    List<Model> modelList_historylist = new ArrayList<>();
```

```
    RecyclerView mRecyclerView;
```

```
    RecyclerView.LayoutManager layoutManager;
```

```
    CustomeAdapter_history adapter;
```

```
    TextView history_empty;
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_transfer_history);
```

```
        mRecyclerView = findViewById(R.id.recyclerview);
```

```
        mRecyclerView.setHasFixedSize(true);
```

```
        layoutManager = new LinearLayoutManager(this);
```

```

mRecyclerView.setLayoutManager(layoutManager);

history_empty = findViewById(R.id.empty_text);

showData();
}

private void showData() {
    modelList_historylist.clear();
    Cursor cursor = new DatabaseHelper(this).readtransferdata();

    while (cursor.moveToNext()) {
        String balancefromdb = cursor.getString(4);
        Double balance = Double.parseDouble(balancefromdb);

        NumberFormat nf = NumberFormat.getNumberInstance();
        nf.setGroupingUsed(true);
        nf.setMaximumFractionDigits(2);
        nf.setMinimumFractionDigits(2);
        String price = nf.format(balance);

        Model model = new Model(cursor.getString(2), cursor.getString(3),
price, cursor.getString(1), cursor.getString(5));
        modelList_historylist.add(model);
    }

    adapter = new CustomeAdapter_history(history_list.this,
modelList_historylist);

```

```
mRecyclerView.setAdapter(adapter);

if(modelList_historylist.size() == 0){
    history_empty.setVisibility(View.VISIBLE);
}

}

}
```

Model.java:

```
public class Model {
    String phoneno, name, balance, name1, name2, date, transaction_status;

    public Model() {
    }

    public Model(String phoneno, String name, String balance) {
        this.phoneno = phoneno;
        this.name = name;
        this.balance = balance;
    }

    public Model(String name1, String name2, String balance, String date, String
transaction_status) {
        this.name1 = name1;
        this.name2 = name2;
        this.balance = balance;
    }
}
```

```
    this.date = date;
    this.transaction_status = transaction_status;
}
```

```
public String getPhoneno() {
    return phoneno;
}
```

```
public void setPhoneno(String phoneno) {
    this.phoneno = phoneno;
}
```

```
public String getName() {
    return name;
}
```

```
public void setName(String name) {
    this.name = name;
}
```

```
public String getBalance() {
    return balance;
}
```

```
public void setBalance(String balance) {
    this.balance = balance;
}
```



```
public String getName1() {  
    return name1;  
}
```

```
public void setName1(String name1) {  
    this.name1 = name1;  
}
```

```
public String getName2() {  
    return name2;  
}
```

```
public void setName2(String name2) {  
    this.name2 = name2;  
}
```

```
public String getDate() {  
    return date;  
}
```

```
public void setDate(String date) {  
    this.date = date;  
}
```

```
public String getTransaction_status() {  
    return transaction_status;  
}
```

```

    }

    public void setTransaction_status(String transaction_status) {
        this.transaction_status = transaction_status;
    }

}

```

SenderTour.java:

```

import android.content.DialogInterface;
import android.content.Intent;
import android.database.Cursor;
import android.os.Bundle;
import android.util.Log;
import android.view.Menu;
import android.view.MenuItem;
import android.widget.SearchView;
import android.widget.Toast;

import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.view.MenuItemCompat;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;

import java.text.NumberFormat;
import java.text.SimpleDateFormat;

```

```
import java.util.ArrayList;
import java.util.Calendar;
import java.util.List;

public class sendtouser extends AppCompatActivity {

    List<Model> modelList_sendtouser = new ArrayList<>();
    RecyclerView mRecyclerView;
    RecyclerView.LayoutManager layoutManager;
    CustomeAdapter_sendtouser adapter;

    String phonenumber, name, currentamount, transferamount,
    remainingamount;

    String selectuser_phonenumber, selectuser_name, selectuser_balance, date;

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

        mRecyclerView = findViewById(R.id.recyclerview);
        mRecyclerView.setHasFixedSize(true);
        layoutManager = new LinearLayoutManager(this);
        mRecyclerView.setLayoutManager(layoutManager);

        Calendar calendar = Calendar.getInstance();

        SimpleDateFormat simpleDateFormat = new SimpleDateFormat("dd-
MMM-yyyy, hh:mm a");
```

```
date = SimpleDateFormat.format(calendar.getTime());
```

```
Bundle bundle = getIntent().getExtras();
```

```
if(bundle != null){
```

```
    phonenumber = bundle.getString("onenumber");
```

```
    name = bundle.getString("name");
```

```
    currentamount = bundle.getString("currentamount");
```

```
    transferamount = bundle.getString("transferamount");
```

```
    showData(onenumber);
```

```
}
```

```
}
```

```
private void showData(String ononenumber) {
```

```
    modelList_sendtouser.clear();
```

```
    Log.d("DEMO",onenumber);
```

```
    Cursor cursor = new
```

```
DatabaseHelper(this).readselectuserdata(onenumber);
```

```
    while(cursor.moveToNext()){
```

```
        String balancefromdb = cursor.getString(2);
```

```
        Double balance = Double.parseDouble(balancefromdb);
```

```
        NumberFormat nf = NumberFormat.getNumberInstance();
```

```
        nf.setGroupingUsed(true);
```

```
        nf.setMaximumFractionDigits(2);
```

```
        nf.setMinimumFractionDigits(2);
```

```
        String price = nf.format(balance);
```

```
        Model model = new Model(cursor.getString(0), cursor.getString(1),  
price);  
        modelList_sendtouser.add(model);  
    }
```

```
        adapter = new CustomeAdapter_sendtouser(sendtouser.this,  
modelList_sendtouser);  
        mRecyclerView.setAdapter(adapter);  
    }
```

```
    public void selectuser(int position) {  
        selectuser_phonenumber =  
modelList_sendtouser.get(position).getPhoneno();  
  
        Cursor cursor = new  
DatabaseHelper(this).readparticulardata(selectuser_phonenumber);  
        while(cursor.moveToNext()) {  
            selectuser_name = cursor.getString(1);  
            selectuser_balance = cursor.getString(2);  
  
            Double Dselectuser_balance = Double.parseDouble(selectuser_balance);  
  
            Double Dselectuser_transferamount =  
Double.parseDouble(transferamount);  
  
            Double Dselectuser_remainingamount = Dselectuser_balance +  
Dselectuser_transferamount;  
  
            new DatabaseHelper(this).insertTransferData(date, name,  
selectuser_name, transferamount, "Success");  
  
            new DatabaseHelper(this).updateAmount(selectuser_phonenumber,  
Dselectuser_remainingamount.toString());  
  
            calculateAmount();  
        }  
    }
```

```
        Toast.makeText(this, "Transaction Successful!",
Toast.LENGTH_LONG).show();

        startActivity(new Intent(sendtouser.this, user_list.class));

        finish();
    }
}
```

```
private void calculateAmount() {
    Double Dcurrentamount = Double.parseDouble(currentamount);
    Double Dtransferamount = Double.parseDouble(transferamount);
    Double Dremainingamount = Dcurrentamount - Dtransferamount;
    remainingamount = Dremainingamount.toString();
    new DatabaseHelper(this).updateAmount(phonenummer,
remainingamount);
}
```

```
@Override

public void onBackPressed() {

    AlertDialog.Builder builder_exitbutton = new
AlertDialog.Builder(sendtouser.this);

    builder_exitbutton.setTitle("Do you want to cancel the
transaction?").setCancelable(false)

        .setPositiveButton("yes", new DialogInterface.OnClickListener() {

            @Override

            public void onClick(DialogInterface dialogInterface, int i) {

                new DatabaseHelper(sendtouser.this).insertTransferData(date,
name, "Not selected", transferamount, "Failed");

                Toast.makeText(sendtouser.this, "Transaction Cancelled!",
Toast.LENGTH_LONG).show();
            }
        });
}
```

```

        startActivity(new Intent(sendtouser.this, user_list.class));
        finish();
    }
}).setNegativeButton("No", null);
AlertDialog alertexit = builder_exitbutton.create();
alertexit.show();
}

```

@Override

```

public boolean onCreateOptionsMenu(Menu menu) {
    getMenuInflater().inflate(R.menu.menu, menu);
    MenuItem search = menu.findItem(R.id.action_search);
    android.widget.SearchView searchView = (android.widget.SearchView)
MenuItemCompat.getActionView(search);

    searchView.setOnQueryTextListener(new
SearchView.OnQueryTextListener() {
        @Override
        public boolean onQueryTextSubmit(String query) {
            return false;
        }
    }
}

```

@Override

```

public boolean onQueryTextChange(String newText) {
    newText = newText.toLowerCase();
    ArrayList<Model> newList = new ArrayList<>();
    for(Model model : modelList_sendtouser){
        String name = model.getName().toLowerCase();
        if(name.contains(newText)){

```

```
        newList.add(model);
    }
}
adapter.setFilter(newList);
return true;
}
});
return super.onCreateOptionsMenu(menu);
}
}
```

User_data.java:

```
import android.app.ProgressDialog;
import android.content.DialogInterface;
import android.content.Intent;
import android.database.Cursor;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.ProgressBar;
import android.widget.TextView;
import android.widget.Toast;

import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;
```



```
import java.text.NumberFormat;
import java.text.SimpleDateFormat;
import java.util.Calendar;

public class user_data extends AppCompatActivity {

    ProgressDialog progressDialog;
    String phonenumber;
    Double newbalance;
    TextView name, phoneNumber, email, account_no, ifsc_code, balance;
    Button transfer_button;
    AlertDialog dialog;

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

        name = findViewById(R.id.username);
        phoneNumber = findViewById(R.id.userphonenumber);
        email = findViewById(R.id.email);
        account_no = findViewById(R.id.account_no);
        ifsc_code = findViewById(R.id.ifsc_code);
        balance = findViewById(R.id.balance);
        transfer_button = findViewById(R.id.transfer_button);
```

```
progressDialog = new ProgressDialog(user_data.this);
progressDialog.setTitle("Loading data...");
progressDialog.show();
```

```
Bundle bundle = getIntent().getExtras();
if(bundle != null){
    phonenumber = bundle.getString("phonenumber");
    showData(phonenumber);
}
```

```
transfer_button.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        enterAmount();
    }
});
}
```

```
private void showData(String phonenumber) {
    Cursor cursor = new
    DatabaseHelper(this).readparticulardata(phonenumber);
    while(cursor.moveToNext()) {
        String balancefromdb = cursor.getString(2);
        newbalance = Double.parseDouble(balancefromdb);

        NumberFormat nf = NumberFormat.getNumberInstance();
        nf.setGroupingUsed(true);
        nf.setMaximumFractionDigits(2);
```

```
nf.setMinimumFractionDigits(2);  
String price = nf.format(newbalance);
```

```
progressDialog.dismiss();
```

```
phoneNumber.setText(cursor.getString(0));  
name.setText(cursor.getString(1));  
email.setText(cursor.getString(3));  
balance.setText(price);  
account_no.setText(cursor.getString(4));  
ifsc_code.setText(cursor.getString(5));  
}
```

```
}
```

```
private void enterAmount() {  
    final AlertDialog.Builder mBuilder = new  
AlertDialog.Builder(user_data.this);  
    View mView =  
getLayoutInflater().inflate(R.layout.activity_transfer_money, null);  
    mBuilder.setTitle("Enter amount").setView(mView).setCancelable(false);  
  
    final EditText mAmount = (EditText)  
mView.findViewById(R.id.enter_money);  
  
    mBuilder.setPositiveButton("SEND", new  
DialogInterface.OnClickListener() {  
        @Override  
        public void onClick(DialogInterface dialogInterface, int i) {
```

```

    }
    }).setNegativeButton("CANCEL", new DialogInterface.OnClickListener()
{
    @Override
    public void onClick(DialogInterface dialog, int which) {
        dialog.dismiss();
        transactionCancel();
    }
});

```

```

dialog = mBuilder.create();
dialog.show();

```

```

dialog.getButton(DialogInterface.BUTTON_POSITIVE).setOnClickListener(new
View.OnClickListener() {

```

```

    @Override
    public void onClick(View view) {
        if(mAmount.getText().toString().isEmpty()){
            mAmount.setError("Amount can't be empty");
        }else if(Double.parseDouble(mAmount.getText().toString()) >
newbalance){
            mAmount.setError("Your account don't have enough balance");
        }else{
            Intent intent = new Intent(user_data.this, sendtouser.class);
            intent.putExtra("phonenumber",
phoneNumber.getText().toString());
            intent.putExtra("name", name.getText().toString());
            intent.putExtra("currentamount", newbalance.toString());
            intent.putExtra("transferamount", mAmount.getText().toString());

```

```
        startActivity(intent);
        finish();
    }
}
});
}
```

```
private void transactionCancel() {

    AlertDialog.Builder builder_exitbutton = new
AlertDialog.Builder(user_data.this);

    builder_exitbutton.setTitle("Do you want to cancel the
transaction?").setCancelable(false)

        .setPositiveButton("yes", new DialogInterface.OnClickListener() {
            @Override

            public void onClick(DialogInterface dialogInterface, int i) {

                Calendar calendar = Calendar.getInstance();

                SimpleDateFormat simpleDateFormat = new
SimpleDateFormat("dd-MMM-yyyy, hh:mm a");

                String date = simpleDateFormat.format(calendar.getTime());

                new DatabaseHelper(user_data.this).insertTransferData(date,
name.getText().toString(), "Not selected", "0", "Failed");

                Toast.makeText(user_data.this, "Transaction Cancelled!",
Toast.LENGTH_LONG).show();

            }

        }).setNegativeButton("No", new DialogInterface.OnClickListener() {
            @Override

            public void onClick(DialogInterface dialog, int which) {
```

```
        dialog.dismiss();
        enterAmount();
    }
});
AlertDialog alertexit = builder_exitbutton.create();
alertexit.show();
}

}
```

User_list.java:

```
import android.app.ProgressDialog;
import android.content.Intent;
import android.content.SharedPreferences;
import android.database.Cursor;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.widget.ProgressBar;
import android.widget.SearchView;
import android.widget.Toast;

import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.view.MenuItemCompat;
import androidx.recyclerview.widget.LinearLayoutManager;
```

```
import androidx.recyclerview.widget.RecyclerView;
```

```
import java.text.NumberFormat;
```

```
import java.text.ParseException;
```

```
import java.text.SimpleDateFormat;
```

```
import java.util.ArrayList;
```

```
import java.util.Calendar;
```

```
import java.util.Date;
```

```
import java.util.List;
```

```
public class user_list extends AppCompatActivity {
```

```
    List<Model> modelList_showlist = new ArrayList<>();
```

```
    RecyclerView mRecyclerView;
```

```
    RecyclerView.LayoutManager layoutManager;
```

```
    CustomeAdapter_userlist adapter;
```

```
    String phonenummer;
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_show_allusers);
```

```
        mRecyclerView = findViewById(R.id.recyclerview);
```

```
        mRecyclerView.setHasFixedSize(true);
```

```
        layoutManager = new LinearLayoutManager(this);
```

```
        mRecyclerView.setLayoutManager(layoutManager);
```

```

        showData();
    }

    private void showData() {
        modelList_showlist.clear();
        Cursor cursor = new DatabaseHelper(this).readalldata();
        while(cursor.moveToNext()){
            String balancefromdb = cursor.getString(2);
            Double balance = Double.parseDouble(balancefromdb);

            NumberFormat nf = NumberFormat.getNumberInstance();
            nf.setGroupingUsed(true);
            nf.setMaximumFractionDigits(2);
            nf.setMinimumFractionDigits(2);
            String price = nf.format(balance);

            Model model = new Model(cursor.getString(0), cursor.getString(1),
price);
            modelList_showlist.add(model);
        }

        adapter = new CustomeAdapter_userlist(user_list.this,
modelList_showlist);
        mRecyclerView.setAdapter(adapter);

    }

```



```
public void nextActivity(int position) {  
    phonenumber = modelList_showlist.get(position).getPhoneno();  
    Intent intent = new Intent(user_list.this, user_data.class);  
    intent.putExtra("phonenumber",phonenumber);  
    startActivity(intent);  
}
```

@Override

```
public boolean onCreateOptionsMenu(Menu menu) {  
    getMenuInflater().inflate(R.menu.menu_history, menu);  
    return super.onCreateOptionsMenu(menu);  
}
```

@Override

```
public boolean onOptionsItemSelected(@NonNull MenuItem item) {  
    if(item.getItemId()==R.id.action_history){  
        startActivity(new Intent(user_list.this, history_list.class));  
    }  
    return super.onOptionsItemSelected(item);  
}  
}
```

Viewholder.java:

```
import android.view.View;  
import android.widget.ImageView;  
import android.widget.TextView;
```

```
import androidx.annotation.NonNull;
import androidx.recyclerview.widget.RecyclerView;

public class ViewHolder extends RecyclerView.ViewHolder {

    TextView mName, mPhonenumber, mBalance, mRupee, mRupeeslash,
    mName1, mName2, mDate, mTransc_status;

    ImageView mPhone, mArrow;

    View mView;

    public ViewHolder(@NonNull View itemView) {
        super(itemView);
        mView = itemView;

        mName = itemView.findViewById(R.id.username);
        mPhonenumber = itemView.findViewById(R.id.userphonenumber);
        mBalance = itemView.findViewById(R.id.balance);
        mRupee = itemView.findViewById(R.id.rupee);
        mRupeeslash = itemView.findViewById(R.id.rupeeslash);
        mPhone = itemView.findViewById(R.id.phone);
        mName1 = itemView.findViewById(R.id.name1);
        mName2 = itemView.findViewById(R.id.name2);
        mDate = itemView.findViewById(R.id.date);
        mArrow = itemView.findViewById(R.id.arrow);
        mTransc_status = itemView.findViewById(R.id.transaction_status);

        itemView.setOnClickListener(new View.OnClickListener() {
            @Override
```

```

        public void onClick(View view) {
            mClickListener.onClick(view, getAdapterPosition());
        }
    });

}

private ViewHolder.ClickListener mClickListener;

public interface ClickListener{
    void onClick(View view, int position);
}

public void setOnClickListener(ViewHolder.ClickListener clickListener){
    mClickListener = clickListener;
}
}

```

Activity_main.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:gravity="center"
    android:orientation="vertical"
    tools:context=".MainActivity">

```

<TextView

```
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:gravity="center"
    android:layout_marginBottom="10dp"
    android:textSize="40dp"
    android:fontFamily="sans-serif-black"
    android:textColor="#a83232"
    android:text="Banking System"/>
```

<ImageView

```
    android:layout_width="wrap_content"
    android:layout_height="448dp"
    android:src="@drawable/transfer_money" />
```

<Button

```
    android:id="@+id/view_users"
    android:layout_width="wrap_content"
    android:layout_height="40dp"
    android:background="@drawable/rounded_button"
    android:paddingHorizontal="15dp"
    android:paddingVertical="5dp"
    android:text="View Users"
    android:textAllCaps="false"
    android:textColor="#fff"
    android:textSize="15dp"
```

```
        android:textStyle="bold"></Button>
```

```
</LinearLayout>
```

Activity_voice.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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="20dp"
    tools:context=".MainActivity">

    <!--TextView: in witch text will be displayed after conversion from speech-->

    <TextView
        android:id="@+id/textTv"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="press mic button to input voice..."
        android:textSize="20sp"
        android:textColor="#000"/>

    <!--ImageButton: By clicking this SpeechToText dialog will be shown-->
    <ImageButton
        android:id="@+id/voiceBtn"
        android:layout_width="150dp"
        android:layout_height="150dp"
        android:background="@null"
        android:src="@drawable/ic_mic"
        android:scaleType="fitCenter"
        android:layout_centerHorizontal="true"
        android:layout_centerVertical="true" />

</RelativeLayout>
```

Voice.java:

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

import android.content.Intent;
import android.os.Bundle;
import android.speech.RecognizerIntent;
import android.view.View;
import android.widget.ImageButton;
import android.widget.TextView;
import android.widget.Toast;

import java.util.ArrayList;
import java.util.Locale;

public class MainActivity extends AppCompatActivity {

    private static final int REQUEST_CODE_SPEECH_INPUT=1000;

    //views from activity
    TextView mTextTv;
    ImageButton mVoiceBtn;
    private boolean value;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
```

```

setContentView(R.layout.activity_main);

mTextTv=findViewById(R.id.textTv);
mVoiceBtn=findViewById(R.id.voiceBtn);

//button click to show speech to text dialog
mVoiceBtn.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(view v) {
        speak();
    }
});
}

private void speak() {
    //intent to show speech to text dialog
    Intent intent = new
Intent(RecognizerIntent.ACTION_RECOGNIZE_SPEECH);
    Intent.putExtra (RecognizerIntent.EXTRA_LANGUAGE_MODEL,
        RecognizerIntent.LANGUAGE_MODEL_FREE_FORM);
    intent.putExtra(RecognizerIntent.EXTRA_LANGUAGE,
Locale.getDefault());
    intent.putExtra(RecognizerIntent.EXTRA_PROMPT, value:"Hi speak
something");

//start intent
    try {

```

```

        //in there was no error

        //show dialog
        startActivityForResult(intent, REQUEST_CODE_SPEECH_INPUT);
    } catch (Exception e) {
        //if there was some error

        //get message of error and show
        Toast.makeText(context:this, text:"" + e.getMessage(),
Toast.LENGTH_SHORT).show();
    }
    //show dialog

    startActivityForResult(intent, REQUEST_CODE_SPEECH_INPUT);

}

//receive voice input and handle it

@Override
protected void onActivityResult(int requestCode, int resultCode, @NonNull
Intent data) {
    super.onActivityResult(requestCode,resultCode,data);

    switch (requestCode){
        case REQUEST_CODE_SPEECH_INPUT:{
            if (resultCode == RESULT_OK && null!=data){
                //get text array from voice intent
                ArrayList<String>
result=data.getStringArrayListExtra(RecognizerIntent.EXTRA_RESULTS);

```



```
//set to text view  
mTextTv.setText(result.get(0));  
  
}  
break;  
  
}  
  
}  
  
}
```

IC_MIC.XML:(NO CHANGES IN THIS IT'S A DEFAULT CODE)

```
<vector android:height="24dp" android:tint="#000000"
    android:viewportHeight="24" android:viewportWidth="24"
    android:width="24dp"
xmlns:android="http://schemas.android.com/apk/res/android">
    <path android:fillColor="@android:color/white"
android:pathData="M12,14c1.66,0 2.99,-1.34 2.99,-3L15,5c0,-1.66 -1.34,-3 -3,-3S9,3.34 9,5v6c0,1.66 1.34,3 3,3z"
M17.3,11c0,3 -2.54,5.1 -5.3,5.1S6.7,14
6.7,11L5,11c0,3.41 2.72,6.23 6,6.72L11,21h2v-3.28c3.28,-0.48 6,-3.3 6,-6.72h-
1.7z"/>
</vector>
```

Logout.java:

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.content.Intent;
```

```
import android.os.Bundle;
```

```
import android.view.View;
```

```
import android.widget.Button;
```

```
import com.google.firebase.auth.FirebaseAuth;
```

```
public class MainActivity extends AppCompatActivity {
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_main);
```

```
        Button logout=findViewById(R.id.logoutBtn);
```

```
        logout.setOnClickListener(new View.OnClickListener() {
```

```
            @Override
```

```
            public void onClick(View view) {
```

```
                FirebaseAuth.getInstance().signOut();
```

```
                startActivity(new Intent(getApplicationContext(),Login.class));
```

```
                finish();
```

```
            }
```

```
        });
```

```
    }
```

```
}
```

