PROJECT

**SCAN LIFE**

**Introduction to project**

In this app there are 4 screens.

Screen 1 is the login screen the user of this app will login with their credentials .In the screen 1 there is a scan button that allows to scan the QR code.

Screen 2 is the signup screen the new user will creates account by signing up.

Screen 3 is the Numbers Screen , it contains Emergency numbers.

Screen 4 is the main screen of the app in which the logged user will generates a QR code by giving the data of the user family member and download the generated QR into mobile storage.

**CODE**

**SCREEN 1**

LOGIN SCREEN

XML CODE

*<?*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="@drawable/back3">  
  
 <EditText  
 android:id="@+id/phno2qr"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:hint="Enter 2nd PhoneNumber"  
 android:inputType="textPersonName"  
 android:minHeight="48dp"  
 android:textColor="@color/black"  
 android:textColorHint="#5E121111"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.497"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.225" />  
  
 <EditText  
 android:id="@+id/phno1qr"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:hint="Enter 1st PohneNumber"  
 android:inputType="textPersonName"  
 android:minHeight="48dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.497"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.134" />  
  
 <EditText  
 android:id="@+id/nameqr"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:hint="Enter name"  
 android:inputType="textPersonName"  
 android:minHeight="48dp"  
 android:textColorHint="#74000000"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.497"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.045" />  
  
 <Button  
 android:id="@+id/genqr"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Generate QR Code"  
 android:textColor="@color/white"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.396" />  
  
  
 <EditText  
 android:id="@+id/group"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:hint="Enter your blood group : "  
 android:inputType="textPersonName"  
 android:minHeight="48dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.497"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.314" />  
  
 <RelativeLayout  
 android:id="@+id/rl"  
 android:layout\_width="329dp"  
 android:layout\_height="290dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.492"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.811">  
  
 <ImageView  
 android:id="@+id/qr"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentTop="true"  
 android:layout\_marginStart="-3dp"  
 android:layout\_marginTop="-26dp"  
 tools:ignore="ImageContrastCheck">  
  
 </ImageView>  
  
 <TextView  
 android:id="@+id/textView5"  
 android:layout\_width="208dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentTop="true"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginStart="82dp"  
 android:layout\_marginTop="259dp"  
 android:layout\_marginEnd="39dp"  
 android:layout\_marginBottom="-1dp"  
 android:textAlignment="center"  
 android:textColor="@color/black"  
 android:textSize="24sp"  
 android:textStyle="bold"  
 android:visibility="visible" />  
  
 <ImageView  
 android:id="@+id/imageView"  
 android:layout\_width="43dp"  
 android:layout\_height="35dp"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentTop="true"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginStart="56dp"  
 android:layout\_marginTop="255dp"  
 android:layout\_marginEnd="230dp"  
 android:layout\_marginBottom="1dp"  
 tools:ignore="ImageContrastCheck" />  
  
 </RelativeLayout>  
  
  
 <TextView  
 android:id="@+id/textView6"  
 android:layout\_width="59dp"  
 android:layout\_height="18dp"  
 android:text="Scan QR"  
 android:textAlignment="center"  
 android:textColor="@color/white"  
 android:textSize="14sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.985"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.102" />  
  
 <Button  
 android:id="@+id/qrdownload"  
 android:layout\_width="191dp"  
 android:layout\_height="50dp"  
 android:text="Download QR"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.961" />  
  
 <ImageButton  
 android:id="@+id/logscan"  
 android:layout\_width="48dp"  
 android:layout\_height="48dp"  
 android:background="@color/cardview\_shadow\_end\_color"  
 android:contentDescription="@string/app\_name"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.955"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.017"  
 app:srcCompat="@drawable/logo" />  
  
  
</androidx.constraintlayout.widget.ConstraintLayout>

JAVA CODE

package com.example.scanlife;  
  
import androidx.activity.result.ActivityResultLauncher;  
import androidx.annotation.NonNull;  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.Manifest;  
import android.app.AlertDialog;  
import android.content.DialogInterface;  
import android.content.Intent;  
  
import android.content.SharedPreferences;  
import android.content.pm.PackageManager;  
import android.os.Build;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.ImageButton;  
import android.widget.Toast;  
  
import com.google.firebase.database.DataSnapshot;  
import com.google.firebase.database.DatabaseError;  
import com.google.firebase.database.DatabaseReference;  
import com.google.firebase.database.FirebaseDatabase;  
import com.google.firebase.database.ValueEventListener;  
import com.journeyapps.barcodescanner.ScanContract;  
import com.journeyapps.barcodescanner.ScanOptions;  
  
public class MainActivity extends AppCompatActivity {  
 Button b1,b2,b3;  
 ImageButton ib;  
 EditText et1,et2;  
 String username,pass;  
 public static final String *SHARED\_PREFS* = "shredprefs";  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 getSupportActionBar().setTitle("Login");  
 b1=findViewById(R.id.*login*);  
 b2=findViewById(R.id.*signup*);  
  
 b3=findViewById(R.id.*numbers*);  
 et1=findViewById(R.id.*name*);  
  
 et2=findViewById(R.id.*password*);  
 ib=findViewById(R.id.*scan*);  
 check();  
  
  
 *//Login button* b1.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
  
 username = et1.getText().toString();  
 pass = et2.getText().toString();  
 if (username.equals("") || pass.equals("")) {  
 Toast.*makeText*(MainActivity.this, "Please fill up all fields", Toast.*LENGTH\_SHORT*).show();  
 }  
  
 else{  
 FirebaseDatabase db = FirebaseDatabase.*getInstance*();  
 DatabaseReference key = db.getReference(username);  
 key.addValueEventListener(new ValueEventListener() {  
 @Override  
 public void onDataChange(@NonNull DataSnapshot snapshot) {  
 String value = snapshot.getValue(String.class);  
 if (value.equals(pass)) {  
 SharedPreferences sharedPreferences = getSharedPreferences(*SHARED\_PREFS*, *MODE\_PRIVATE*);  
 SharedPreferences.Editor editor = sharedPreferences.edit();  
  
 editor.putString("name", "true");  
 editor.apply();  
  
  
 Toast.*makeText*(MainActivity.this, "login success", Toast.*LENGTH\_SHORT*).show();  
 Intent i = new Intent(MainActivity.this, Login\_Activity.class);  
 startActivity(i);  
  
 } else {  
  
 Toast.*makeText*(MainActivity.this, "Login failed", Toast.*LENGTH\_LONG*).show();  
 }  
  
 }  
  
 @Override  
 public void onCancelled(@NonNull DatabaseError error) {  
  
 }  
 });  
 }  
  
 }  
 });  
 b2.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Intent i1=new Intent(MainActivity.this,Signup\_Activity.class);  
 startActivity(i1);  
  
 }  
 });  
 b3.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Intent i2=new Intent(MainActivity.this,Numbers\_Activity.class);  
 startActivity(i2);  
 }  
 });  
 *//qr scanner button* ib.setOnClickListener(new View.OnClickListener() {  
  
 @Override  
 public void onClick(View v) {  
 scanCode();  
  
  
 }  
  
 private void scanCode() {  
 ScanOptions options=new ScanOptions();  
 options.setPrompt("Volume up to flash on");  
 options.setBeepEnabled(true);  
 options.setOrientationLocked(true);  
 options.setCaptureActivity(CaptureAct.class);  
 barLauncher.launch(options);  
  
  
 }  
 ActivityResultLauncher<ScanOptions> barLauncher=registerForActivityResult(new ScanContract(),result ->  
 {  
 if (result.getContents()!=null)  
 {  
 AlertDialog.Builder builder=new AlertDialog.Builder(MainActivity.this);  
 builder.setTitle("Result");  
 builder.setMessage(result.getContents());  
 builder.setPositiveButton("OK", new DialogInterface.OnClickListener() {  
 @Override  
 public void onClick(DialogInterface dialog, int which) {  
 dialog.dismiss();  
 }  
 }).show();  
  
  
 }  
 });  
 });  
 }  
 *//Method to check logged in previously or not* private void check() {  
 SharedPreferences sharedPreferences = getSharedPreferences(*SHARED\_PREFS*,*MODE\_PRIVATE*);  
 String checking = sharedPreferences.getString("name","");  
 if(checking.equals("true")){  
 Intent i = new Intent(MainActivity.this, Login\_Activity.class);  
 startActivity(i);  
 finish();  
 }  
 }  
  
   
 *//Method to go back on clicking back button on a Mobile* @Override  
 public void onBackPressed() {  
 super.onBackPressed();  
 finishAffinity();  
 }}

**SCREEN 2**

SIGNUP SCREEN

XML CODE

*<?*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:background="@drawable/back3"  
 android:layout\_height="match\_parent">  
  
 <TextView  
 android:id="@+id/textView7"  
 android:layout\_width="309dp"  
 android:layout\_height="33dp"  
 android:text=" Have an account?Click here👇"  
 android:textAlignment="center"  
 android:textColor="#FFFFFF"  
 android:textSize="20sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.746" />  
  
 <EditText  
 android:id="@+id/namereg"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:hint="Username"  
 android:inputType="textPersonName"  
 android:minHeight="48dp"  
 android:textColorHint="#B5B5B5"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.497"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.24" />  
  
 <EditText  
 android:id="@+id/passwordreg"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:hint="Password"  
 android:inputType="textPassword"  
 android:minHeight="48dp"  
 android:textColorHint="#B5B5B5"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.497"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.352" />  
  
 <Button  
 android:id="@+id/reg"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Register"  
 android:textAllCaps="false"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.801"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.606" />  
  
 <TextView  
 android:id="@+id/textView3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Register your account here👇"  
 android:textColor="#FFFFFF"  
 android:textSize="20sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.496"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.112" />  
  
 <Button  
 android:id="@+id/button"  
 android:layout\_width="291dp"  
 android:layout\_height="49dp"  
 android:text="Login"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.808" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

JAVA CODE

package com.example.scanlife;  
  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.Toast;  
  
import com.google.firebase.database.DatabaseReference;  
import com.google.firebase.database.FirebaseDatabase;  
  
public class Signup\_Activity extends AppCompatActivity {  
 EditText et1,et2;  
 Button b1,b2;  
 String username,pass;  
  
 *//Signup a user* @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_signup*);  
 getSupportActionBar().setTitle("Signup");  
 b1=findViewById(R.id.*reg*);  
 b2 = findViewById(R.id.*button*) ;  
 et1=findViewById(R.id.*namereg*);  
 et2=findViewById(R.id.*passwordreg*);  
  
 b1.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 username=et1.getText().toString();  
 pass=et2.getText().toString();  
 if (username.equals("") || pass.equals("")) {  
 Toast.*makeText*(Signup\_Activity.this, "Please fill up all fields", Toast.*LENGTH\_SHORT*).show();  
 }  
  
 else {  
 FirebaseDatabase db = FirebaseDatabase.*getInstance*();  
 DatabaseReference key = db.getReference(username);  
 key.setValue(pass);  
 Toast.*makeText*(Signup\_Activity.this, "user registerd", Toast.*LENGTH\_LONG*).show();  
  
 Intent i3 = new Intent(Signup\_Activity.this, MainActivity.class);  
 startActivity(i3);  
  
 }  
 }  
 });  
  
 b2.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 Intent i4=new Intent(Signup\_Activity.this,MainActivity.class);  
 startActivity(i4);  
 finish();  
 }  
 });  
  
  
 }  
 @Override  
 public void onBackPressed() {  
 super.onBackPressed();  
 finishAffinity();  
 }  
}

**SCREEN 3**

NUMBERS SCREEN

XML CODE

*<?*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:background="@drawable/back5"  
 android:layout\_height="match\_parent">  
  
 <TextView  
 android:id="@+id/textView4"  
 android:layout\_width="348dp"  
 android:layout\_height="412dp"  
 android:text="Helpline Numbers :\n\n 1.Police :100\n 2.Fire :101\n 3.EMRI / AMBULANCE :108 or 102\n 4.DISHA HELPLINE :181 OR 112\n 5.CORRUPTION \n 6.GREVIENCES :14400\n 7.RAILWAYS ENQUIRY :139\n 8.NHAI :1033"  
 android:textColor="#171616"  
 android:textSize="20sp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.15"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.106" />  
  
 <Button  
 android:id="@+id/okay"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="5dp"  
 android:layout\_marginEnd="5dp"  
 android:text="Okay"  
 android:textAllCaps="false"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.807"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.768" />

JAVA CODE

package com.example.scanlife;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
  
public class Numbers\_Activity extends AppCompatActivity {  
 Button o;  
  
  
 *//Buttons for emergency activity* @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_numbers*);  
 getSupportActionBar().setTitle("Emergency Numbers");  
 o=findViewById(R.id.*okay*);  
 o.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Intent io=new Intent(Numbers\_Activity.this,MainActivity.class);  
 startActivity(io);  
 }  
 });  
 }

**SCREEN 4**

MAIN SCREEN

XML CODE

*<?*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="@drawable/back3">  
  
 <EditText  
 android:id="@+id/phno2qr"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:hint="Enter 2nd PhoneNumber"  
 android:inputType="textPersonName"  
 android:minHeight="48dp"  
 android:textColor="@color/black"  
 android:textColorHint="#5E121111"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.497"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.225" />  
  
 <EditText  
 android:id="@+id/phno1qr"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:hint="Enter 1st PohneNumber"  
 android:inputType="textPersonName"  
 android:minHeight="48dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.497"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.134" />  
  
 <EditText  
 android:id="@+id/nameqr"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:hint="Enter name"  
 android:inputType="textPersonName"  
 android:minHeight="48dp"  
 android:textColorHint="#74000000"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.497"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.045" />  
  
 <Button  
 android:id="@+id/genqr"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Generate QR Code"  
 android:textColor="@color/white"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.396" />  
  
  
 <EditText  
 android:id="@+id/group"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:hint="Enter your blood group : "  
 android:inputType="textPersonName"  
 android:minHeight="48dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.497"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.314" />  
  
 <RelativeLayout  
 android:id="@+id/rl"  
 android:layout\_width="329dp"  
 android:layout\_height="290dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.492"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.811">  
  
 <ImageView  
 android:id="@+id/qr"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentTop="true"  
 android:layout\_marginStart="-3dp"  
 android:layout\_marginTop="-26dp"  
 tools:ignore="ImageContrastCheck">  
  
 </ImageView>  
  
 <TextView  
 android:id="@+id/textView5"  
 android:layout\_width="208dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentTop="true"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginStart="82dp"  
 android:layout\_marginTop="259dp"  
 android:layout\_marginEnd="39dp"  
 android:layout\_marginBottom="-1dp"  
 android:textAlignment="center"  
 android:textColor="@color/black"  
 android:textSize="24sp"  
 android:textStyle="bold"  
 android:visibility="visible" />  
  
 <ImageView  
 android:id="@+id/imageView"  
 android:layout\_width="43dp"  
 android:layout\_height="35dp"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentTop="true"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginStart="56dp"  
 android:layout\_marginTop="255dp"  
 android:layout\_marginEnd="230dp"  
 android:layout\_marginBottom="1dp"  
 tools:ignore="ImageContrastCheck" />  
  
 </RelativeLayout>  
  
  
 <TextView  
 android:id="@+id/textView6"  
 android:layout\_width="59dp"  
 android:layout\_height="18dp"  
 android:text="Scan QR"  
 android:textAlignment="center"  
 android:textColor="@color/white"  
 android:textSize="14sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.985"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.102" />  
  
 <Button  
 android:id="@+id/qrdownload"  
 android:layout\_width="191dp"  
 android:layout\_height="50dp"  
 android:text="Download QR"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.961" />  
  
 <ImageButton  
 android:id="@+id/logscan"  
 android:layout\_width="48dp"  
 android:layout\_height="48dp"  
 android:background="@color/cardview\_shadow\_end\_color"  
 android:contentDescription="@string/app\_name"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.955"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.017"  
 app:srcCompat="@drawable/logo" />

JAVA CODE

package com.example.scanlife;  
import static com.example.scanlife.R.\*;  
  
  
import androidx.activity.result.ActivityResultLauncher;  
import androidx.annotation.NonNull;  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.Manifest;  
import android.app.AlertDialog;  
import android.content.Context;  
import android.content.DialogInterface;  
import android.content.Intent;  
import android.content.SharedPreferences;  
import android.content.pm.PackageManager;  
import android.graphics.Bitmap;  
import android.graphics.drawable.BitmapDrawable;  
import android.os.Build;  
import android.os.Bundle;  
import android.os.Environment;  
import android.view.Menu;  
import android.view.MenuInflater;  
import android.view.MenuItem;  
import android.view.View;  
import android.view.inputmethod.InputMethodManager;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.ImageButton;  
import android.widget.ImageView;  
import android.widget.RelativeLayout;  
import android.widget.TextView;  
import android.widget.Toast;  
  
import com.google.zxing.BarcodeFormat;  
import com.google.zxing.MultiFormatWriter;  
import com.google.zxing.WriterException;  
import com.google.zxing.common.BitMatrix;  
import com.journeyapps.barcodescanner.BarcodeEncoder;  
import com.journeyapps.barcodescanner.ScanContract;  
import com.journeyapps.barcodescanner.ScanOptions;  
  
import java.io.File;  
import java.io.FileOutputStream;  
  
public class Login\_Activity extends AppCompatActivity{  
 long i = 0;  
 RelativeLayout relativeLayout;  
 TextView dtv;  
 EditText et1,et2,et3,et4;  
 Button qrgen,dqr;  
 ImageButton im1;  
 ImageButton im2;  
 ImageView qr1,dl;  
 Bitmap bitmap;  
 BitmapDrawable bitmapd;  
 public static final String *SHARED\_PREFS* = "shredprefs";  
  
  
  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(layout.*activity\_login*);  
 getSupportActionBar().setTitle("Add Family Details");  
 et1=findViewById(R.id.*nameqr*);  
 et2=findViewById(R.id.*phno1qr*);  
 et3=findViewById(R.id.*phno2qr*);  
 et4 = findViewById(R.id.*group*);  
 im2 = findViewById(id.*logscan*);  
 relativeLayout = findViewById(id.*rl*);  
 qrgen=findViewById(R.id.*genqr*);  
 qr1 = findViewById(R.id.*qr*);  
 dqr=findViewById(id.*qrdownload*);  
 dtv = findViewById(id.*textView5*);  
 dl = findViewById(id.*imageView*);  
  
  
  
  
  
  
 *//qr creater button* qrgen.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 String sText="Name: "+et1.getText().toString().trim()+"\n"+"1st PhoneNumber: "+et2.getText().toString().trim()+"\n"+"2nd PhoneNumber: "+et3.getText().toString().trim()+"\nVictim Bloodgroup : "+et4.getText().toString().trim();  
 MultiFormatWriter writer=new MultiFormatWriter();  
  
  
 try {  
 BitMatrix matrix=writer.encode(sText, BarcodeFormat.*QR\_CODE*,350,350);  
 BarcodeEncoder encoder=new BarcodeEncoder();  
 Bitmap bitmap =encoder.createBitmap(matrix);  
 dl.setImageResource(drawable.*img*);  
 dtv.setText("Scan for Details");  
 qr1.setImageBitmap(bitmap);  
  
 InputMethodManager manager=(InputMethodManager) getSystemService(  
 Context.*INPUT\_METHOD\_SERVICE* );  
 manager.hideSoftInputFromWindow(et1.getApplicationWindowToken()  
 ,0);  
 } catch (WriterException e) {  
 e.printStackTrace();  
 }  
  
  
 }  
 });

im2.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 scanCode();  
  
 }  
  
 private void scanCode() {  
 ScanOptions options=new ScanOptions();  
 options.setPrompt("Volume up to flash on");  
 options.setBeepEnabled(true);  
 options.setOrientationLocked(true);  
 options.setCaptureActivity(CaptureAct.class);  
 barLauncher.launch(options);  
  
  
 }  
 ActivityResultLauncher<ScanOptions> barLauncher=registerForActivityResult(new ScanContract(), result ->  
 {  
 if (result.getContents()!=null)  
 {  
 AlertDialog.Builder builder=new AlertDialog.Builder(Login\_Activity.this);  
 builder.setTitle("Result");  
 builder.setMessage(result.getContents());  
 builder.setPositiveButton("OK", new DialogInterface.OnClickListener() {  
 @Override  
 public void onClick(DialogInterface dialog, int which) {  
 dialog.dismiss();  
 }  
 }).show();  
  
  
 }  
 });  
 });  
  
 *//download button to save qr to gallery with entered name* dqr.setOnClickListener(v->{  
 *//i++;* if (Build.VERSION.*SDK\_INT* >= Build.VERSION\_CODES.*M*){  
 if(getApplicationContext().checkSelfPermission(Manifest.permission.*WRITE\_EXTERNAL\_STORAGE*)!=PackageManager.*PERMISSION\_GRANTED*){  
 *//Toast.makeText(this, "Permission granted", Toast.LENGTH\_SHORT).show();* requestPermissions(new String[]{Manifest.permission.*WRITE\_EXTERNAL\_STORAGE*},1);  
 }  
 }  
saveImage();  
 });  
  
 }  
 private void saveImage() {  
 relativeLayout.setDrawingCacheEnabled(true);  
 relativeLayout.buildDrawingCache();  
 relativeLayout.setDrawingCacheQuality(View.*DRAWING\_CACHE\_QUALITY\_HIGH*);  
 Bitmap bitmap = relativeLayout.getDrawingCache();  
 save(bitmap);  
  
 }  
  
 private void save(Bitmap bitmap) {  
 String root = Environment.*getExternalStorageDirectory*().getAbsolutePath();  
 File file = new File(root + "/Download");  
 String filename = */\*"qr" + i + ".jpg"\*/* et1.getText().toString()+".jpeg";  
 File myfile = new File(file, filename);  
  
 if (myfile.exists()) {  
 myfile.delete();  
 }  
 try {  
 FileOutputStream fileOutputStream = new FileOutputStream(myfile);  
 bitmap.compress(Bitmap.CompressFormat.*JPEG*, 100, fileOutputStream);  
 fileOutputStream.flush();  
 fileOutputStream.close();  
 *//Toast.makeText(this, "Image saved Successfully", Toast.LENGTH\_SHORT).show();* AlertDialog.Builder builder=new AlertDialog.Builder(Login\_Activity.this);  
 builder.setTitle("Result");  
 builder.setMessage("Image saved sucessfully\n"+"path : "+file);  
 builder.setPositiveButton("OK", new DialogInterface.OnClickListener() {  
 @Override  
 public void onClick(DialogInterface dialog, int which) {  
 dialog.dismiss();  
 }  
 }).show();  
relativeLayout.setDrawingCacheEnabled(false);  
 } catch (Exception e) {  
 Toast.*makeText*(this, "Error" + e, Toast.*LENGTH\_SHORT*).show();  
 }  
  
 }  
  
 *//To check Storage permision granted or denied in a Mobile* @Override  
 public void onRequestPermissionsResult(int requestCode, @NonNull String[] permissions, @NonNull int[] grantResults) {  
 super.onRequestPermissionsResult(requestCode, permissions, grantResults);  
 if(requestCode==1){  
 if(grantResults[0]==PackageManager.*PERMISSION\_GRANTED*){  
 Toast.*makeText*(this, "Permission granted", Toast.*LENGTH\_SHORT*).show();  
 }  
 else  
 {  
 Toast.*makeText*(this, "Permission denied", Toast.*LENGTH\_SHORT*).show();  
 }  
 }  
 }  
 *//Methods to create Menu and its items* @Override  
 public boolean onCreateOptionsMenu(Menu menu) {  
 MenuInflater menuInflater = getMenuInflater();  
 menuInflater.inflate(R.menu.*logmenu*,menu);  
 return true;  
 }  
  
 @Override  
 public boolean onOptionsItemSelected(@NonNull MenuItem item) {  
 int id = item.getItemId();  
 if (id == R.id.*item1*) {  
 SharedPreferences sharedPreferences = getSharedPreferences(*SHARED\_PREFS*, *MODE\_PRIVATE*);  
 SharedPreferences.Editor editor = sharedPreferences.edit();  
  
 editor.putString("name", "");  
 editor.apply();  
  
 Toast.*makeText*(Login\_Activity.this, "Logout Successfull", Toast.*LENGTH\_SHORT*).show();  
 Intent in = new Intent(Login\_Activity.this, MainActivity.class);  
 startActivity(in);  
 finish();  
 return true;  
 }  
 if(id == R.id.*item2*)  
 {  
 Intent ie = new Intent(Login\_Activity.this,Numbers\_Activity.class);  
 startActivity(ie);  
 finish();  
 }  
 return super.onOptionsItemSelected(item);  
  
 }  
 @Override  
 public void onBackPressed() {  
 super.onBackPressed();  
 finishAffinity();  
 }}

APP SPLASH SCREEN

XML CODE

*<?*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="#9CFFC107"  
 tools:context=".opening">  
  
 <ImageView  
 android:id="@+id/mainlogoimg"  
 android:layout\_width="154dp"  
 android:layout\_height="164dp"  
 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="0.269"  
 app:srcCompat="@drawable/img" />  
  
 <TextView  
 android:id="@+id/sublogo"  
 android:layout\_width="259dp"  
 android:layout\_height="72dp"  
 android:text="Scan Life"  
 android:textAlignment="center"  
 android:textAllCaps="false"  
 android:textColor="#2196F3"  
 android:textSize="60sp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.618"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.625" />  
</androidx.constraintlayout.widget.ConstraintLayout>

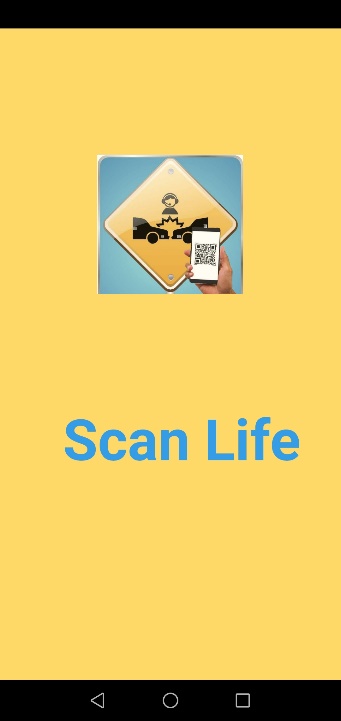
</androidx.constraintlayout.widget.ConstraintLayout>

*<?*xml version="1.0" encoding="utf-8"*?>*<menu xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:android="http://schemas.android.com/apk/res/android">  
  
 *<!--menu items -->* <item  
 android:id="@+id/item1"  
 android:icon="@drawable/out"  
 android:title="Signout" />  
 <item  
 android:id="@+id/item2"  
 android:icon="@drawable/out"  
 android:title="Emergency No" />  
</menu>

JAVA CODE

package com.example.scanlife;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.os.Handler;  
import android.view.Window;  
import android.view.WindowManager;  
import android.view.animation.Animation;  
import android.view.animation.AnimationUtils;  
import android.widget.ImageView;  
import android.widget.TextView;  
  
public class opening extends AppCompatActivity {  
  
 ImageView img;  
 TextView tv;  
 Animation top,bottom;  
 *// Methods for opening screen of the app* @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 requestWindowFeature(Window.*FEATURE\_NO\_TITLE*);  
 this.getWindow().setFlags(WindowManager.LayoutParams.*FLAG\_FULLSCREEN*,WindowManager.LayoutParams.*FLAG\_FULLSCREEN*);  
 getSupportActionBar().hide();  
 setContentView(R.layout.*activity\_opening*);  
 img = findViewById(R.id.*mainlogoimg*);  
 tv = findViewById(R.id.*sublogo*);  
 top = AnimationUtils.*loadAnimation*(getApplicationContext(),R.anim.*tob*);  
 bottom = AnimationUtils.*loadAnimation*(getApplicationContext(),R.anim.*bot*);  
 img.setAnimation(top);  
 tv.setAnimation(bottom);  
 new Handler().postDelayed(new Runnable() {  
 @Override  
 public void run() {  
 Intent i = new Intent(opening.this,MainActivity.class);  
 startActivity(i);  
 finish();  
  
 }  
 },2000);  
 }  
}

**OUTPUT**

**** 