**LAB 8**

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**AndroidManifest.xml**

<?xml version="1.0" encoding="utf-8"?>  
<manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools">  
  
 <application  
 android:allowBackup="true"  
 android:dataExtractionRules="@xml/data\_extraction\_rules"  
 android:fullBackupContent="@xml/backup\_rules"  
 android:icon="@mipmap/ic\_launcher"  
 android:label="@string/app\_name"  
 android:roundIcon="@mipmap/ic\_launcher\_round"  
 android:supportsRtl="true"  
 android:theme="@style/Theme.Btap8">  
  
 <activity android:name=".Bai1Activity" />  
 <activity android:name=".Bai2Activity" />  
 <activity  
 android:name=".MainActivity"  
 android:exported="true">  
  
 <intent-filter>  
 <action android:name="android.intent.action.MAIN" />  
 <category android:name="android.intent.category.LAUNCHER" />  
 </intent-filter>  
 </activity>  
  
 </application>  
  
</manifest>

**MainActivity.java**

package com.example.btap8;  
  
import androidx.appcompat.app.AppCompatActivity;  
import android.content.Intent;  
import android.os.Bundle;  
import android.widget.Button;  
  
public class MainActivity extends AppCompatActivity {  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 Button btnBai1 = findViewById(R.id.*btnBai1*);  
 Button btnBai2 = findViewById(R.id.*btnBai2*);  
  
 btnBai1.setOnClickListener(v ->  
 startActivity(new Intent(MainActivity.this, Bai1Activity.class)));  
  
 btnBai2.setOnClickListener(v ->  
 startActivity(new Intent(MainActivity.this, Bai2Activity.class)));  
 }  
}

**Bai1Activity.java**

package com.example.btap8;  
  
import androidx.appcompat.app.AppCompatActivity;  
import android.content.Intent;  
import android.os.Bundle;  
import android.os.Handler;  
import android.view.View;  
import android.widget.ImageView;  
import android.widget.LinearLayout;  
import android.widget.TextView;  
import java.util.Random;  
  
public class Bai1Activity extends AppCompatActivity {  
  
 private View loadingView;  
 private LinearLayout contentLayout;  
 private ImageView imgAnimal;  
 private TextView txtTitle, btnBack;  
  
 private int[] colors = { 0xFFE57373, 0xFF64B5F6, 0xFF81C784, 0xFFFFD54F, 0xFFBA68C8 };  
 private int[] icons = { R.drawable.*ic\_cat*, R.drawable.*ic\_dog*, R.drawable.*ic\_lion* };  
 private String[] names = { "Cat", "Dog", "Lion", "Penguin" };  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_bai1*);  
  
 // Ánh xạ View  
 loadingView = findViewById(R.id.*loadingView*);  
 contentLayout = findViewById(R.id.*contentLayout*);  
 imgAnimal = findViewById(R.id.*imgAnimal*);  
 txtTitle = findViewById(R.id.*txtTitle*);  
 btnBack = findViewById(R.id.*btnBack*);  
  
 // QUAY LẠI MENU  
 btnBack.setOnClickListener(v -> {  
 startActivity(new Intent(Bai1Activity.this, MainActivity.class));  
 finish();  
 });  
  
 // Loading 2 giây trước khi hiện Animal  
 new Handler().postDelayed(() -> {  
 loadingView.setVisibility(View.*GONE*);  
 contentLayout.setVisibility(View.*VISIBLE*);  
 randomSplash();  
 }, 2000);  
 }  
  
 private void randomSplash() {  
 Random random = new Random();  
 contentLayout.setBackgroundColor(colors[random.nextInt(colors.length)]);  
 int index = random.nextInt(icons.length);  
 imgAnimal.setImageResource(icons[index]);  
 txtTitle.setText("Animal Sound - " + names[index]);  
 }  
}

**Bai2Activity.java**

package com.example.btap8;  
  
import androidx.appcompat.app.AppCompatActivity;  
import android.content.Intent;  
import android.net.Uri;  
import android.os.Bundle;  
import android.os.Handler;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
  
public class Bai2Activity extends AppCompatActivity {  
  
 private View loadingView;  
 private Button btnShowLoading, btnCall;  
 private EditText edtPhone;  
 private TextView btnBack;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_bai2*);  
  
  
 loadingView = findViewById(R.id.*loadingView*);  
 btnShowLoading = findViewById(R.id.*btnShowLoading*);  
 btnCall = findViewById(R.id.*btnCall*);  
 edtPhone = findViewById(R.id.*edtPhone*);  
 btnBack = findViewById(R.id.*btnBack*);  
  
  
 btnBack.setOnClickListener(v -> {  
 startActivity(new Intent(Bai2Activity.this, MainActivity.class));  
 finish();  
 });  
  
  
 btnShowLoading.setOnClickListener(v -> {  
 loadingView.setVisibility(View.*VISIBLE*);  
 new Handler().postDelayed(() ->  
 loadingView.setVisibility(View.*GONE*), 2000);  
 });  
  
  
 btnCall.setOnClickListener(v -> {  
 String phone = edtPhone.getText().toString().trim();  
 if (!phone.isEmpty()) {  
 Intent intent = new Intent(Intent.*ACTION\_DIAL*, Uri.*parse*("tel:" + phone));  
 startActivity(intent);  
 } else {  
 edtPhone.setError("Vui lòng nhập số điện thoại");  
 }  
 });  
 }  
}

**activity\_main.xml**

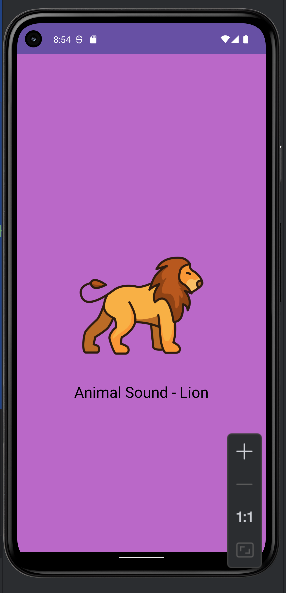
<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:gravity="center"  
 android:orientation="vertical"  
 android:padding="24dp"  
 android:background="#FAFAFA">  
  
 <Button  
 android:id="@+id/btnBai1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Bài 1: Random Animal"  
 android:layout\_marginBottom="16dp" />  
  
 <Button  
 android:id="@+id/btnBai2"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Bài 2: Loading Overlay" />  
</LinearLayout>

**activity\_bai1.xml**

<?xml version="1.0" encoding="utf-8"?>  
<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent">  
  
  
 <TextView  
 android:id="@+id/btnBack"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:gravity="center"  
 android:padding="16dp"  
 android:text="Quay lại"  
 android:textSize="18sp"  
 android:textStyle="bold" />  
  
 <!-- Giao diện Animal, đặt dưới nút quay lại -->  
 <LinearLayout  
 android:id="@+id/contentLayout"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:gravity="center"  
 android:orientation="vertical"  
 android:paddingTop="60dp">  
  
 <ImageView  
 android:id="@+id/imgAnimal"  
 android:layout\_width="200dp"  
 android:layout\_height="200dp"  
 android:scaleType="centerCrop" />  
  
 <TextView  
 android:id="@+id/txtTitle"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="20dp"  
 android:textSize="24sp"  
 android:textColor="#000000" />  
 </LinearLayout>  
  
   
 <include  
 android:id="@+id/loadingView"  
 layout="@layout/item\_loading"  
 android:visibility="visible" />  
</FrameLayout>

**activity\_bai2.xml**

<?xml version="1.0" encoding="utf-8"?>  
<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent">  
  
 <!-- Nút QUAY LẠI ở trên đầu, căn giữa -->  
 <TextView  
 android:id="@+id/btnBack"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:gravity="center"  
 android:padding="16dp"  
 android:text="Quay lại"  
 android:textSize="18sp"  
 android:textStyle="bold" />  
  
   
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:gravity="center"  
 android:orientation="vertical"  
 android:paddingTop="70dp">  
  
  
 <Button  
 android:id="@+id/btnShowLoading"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Show Loading"  
 android:layout\_marginBottom="30dp" />  
  
   
 <EditText  
 android:id="@+id/edtPhone"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Nhập số điện thoại"  
 android:inputType="phone"  
 android:padding="12dp"  
 android:layout\_marginBottom="16dp" />  
  
   
 <Button  
 android:id="@+id/btnCall"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Gọi điện" />  
 </LinearLayout>  
  
   
 <include  
 android:id="@+id/loadingView"  
 layout="@layout/item\_loading"  
 android:visibility="gone" />  
  
</FrameLayout>

 A screenshot of a cell phone

AI-generated content may be incorrect.