LAB2: Bài 2 \_ Bài tập 1

1. Chuẩn bị tài nguyên

Tài nguyên màu sắc

*<?*xml version="1.0" encoding="utf-8"*?>*<resources>  
 <color name="purple\_200">#FFBB86FC</color>  
 <color name="purple\_500">#FF6200EE</color>  
 <color name="purple\_700">#F4511E</color>  
 <color name="teal\_200">#FF03DAC5</color>  
 <color name="teal\_700">#FF018786</color>  
 <color name="black">#FF000000</color>  
 <color name="white">#FFFFFFFF</color>  
 <color name="orange">#FB8C00</color>  
 <color name="gray">#EAE5E3</color>  
 <color name="orangeMid">#F4511E</color>  
</resources>

Tài nguyên chuỗi

<resources xmlns:tools="http://schemas.android.com/tools">  
 <string name="app\_name">Login</string>  
 <string name="txt\_login">Login</string>  
 <string name="hint\_email">Email</string>  
 <string name="hint\_password">Password</string>  
 <string name="txt\_forgot\_pass">Forgot password?</string>  
 <string name="txt\_no\_account" tools:ignore="StringEscaping">Don\'t have an account ?</string>  
  
 <string name="txt\_register">Register</string>  
</resources>

Tài nguyên về icon, bg

A screenshot of a computer program

AI-generated content may be incorrect.

Thiết kế layout

*<?*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:background="@color/gray" android:orientation="vertical">  
 <FrameLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content">  
 <View  
 android:layout\_width="match\_parent"  
 android:layout\_height="300dp"  
 android:background="@drawable/bg\_top"/>  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_gravity="end"  
 android:layout\_marginTop="220dp"  
 android:layout\_marginEnd="30dp"  
 android:text="@string/txt\_login"  
 android:textColor="@color/white"  
 android:textSize="20sp" />  
 </FrameLayout>  
 <EditText  
 android:id="@+id/edtEmail"  
 android:layout\_width="match\_parent"  
 android:layout\_height="50dp"  
 android:layout\_marginHorizontal="30dp"  
 android:layout\_marginTop="50dp"  
 android:layout\_marginBottom="3dp"  
 android:background="@drawable/bg\_radius"  
 android:drawableStart="@drawable/ic\_email"  
 android:drawablePadding="10dp"  
 android:hint="@string/hint\_email"  
 android:padding="10dp"  
 android:textSize="18sp" />  
 <EditText  
 android:id="@+id/edtPassword"  
 android:layout\_width="match\_parent"  
 android:layout\_height="50dp"  
 android:layout\_marginHorizontal="30dp"  
 android:layout\_marginTop="20dp"  
 android:layout\_marginBottom="3dp"  
 android:background="@drawable/bg\_radius"  
 android:drawableStart="@drawable/ic\_key"  
 android:drawablePadding="10dp"  
 android:hint="@string/hint\_password"  
 android:padding="10dp"  
 android:textSize="18sp" />  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_gravity="end"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginEnd="30dp"  
 android:text="@string/txt\_forgot\_pass"  
 android:textColor="@color/black"  
 android:textSize="18sp" />  
 <Button  
 android:id="@+id/btnLogin"  
 android:layout\_width="match\_parent"  
 android:layout\_height="50dp"  
 android:layout\_gravity="end"  
 android:layout\_marginHorizontal="30dp"  
 android:layout\_marginTop="50dp"  
 android:background="@drawable/bg\_login"  
 android:gravity="center"  
 android:padding="10dp"  
 android:text="@string/txt\_login"  
 android:textColor="@color/white"  
 android:textSize="18sp" />  
 <TableRow  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="50dp"  
 android:gravity="center">  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_gravity="end"  
 android:text="@string/txt\_no\_account"  
 android:textColor="@color/black"  
 android:textSize="14sp" />  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_gravity="end"  
 android:text="@string/txt\_register"  
 android:textColor="@color/orange"  
 android:textSize="14sp"  
 android:textStyle="bold" />  
 </TableRow>  
</LinearLayout>

Tiến hành thêm layout custom toast

*<?*xml version="1.0" encoding="utf-8"*?>*<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:orientation="horizontal"  
 android:padding="12dp"  
 android:background="@drawable/bg\_radius"  
 android:gravity="center\_vertical"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content">  
 <ImageView  
 android:src="@drawable/ic\_check"  
 android:layout\_width="24dp"  
 android:layout\_height="24dp"  
 android:layout\_marginEnd="8dp" />  
 <TextView  
 android:id="@+id/tvToastMessage"  
 android:textColor="@color/black"  
 android:textSize="16sp"  
 android:text="Message here"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content" />  
</LinearLayout>

Xử lý sự kiện hiển thị Custom Toast

package com.example.lab2\_baitap2\_1;  
  
import android.os.Bundle;  
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 androidx.appcompat.app.AppCompatActivity;  
  
  
public class MainActivity extends AppCompatActivity {  
  
 private EditText edtEmail, edtPassword;  
 private Button btnLogin;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 edtEmail = findViewById(R.id.*edtEmail*);  
 edtPassword = findViewById(R.id.*edtPassword*);  
 btnLogin = findViewById(R.id.*btnLogin*);  
  
 btnLogin.setOnClickListener(v -> showCustomToast());  
 }  
  
 private void showCustomToast() {  
 String email = edtEmail.getText().toString().trim();  
 String password = edtPassword.getText().toString().trim();  
  
 LayoutInflater inflater = getLayoutInflater();  
 View layout = inflater.inflate(R.layout.*custom\_toast*, findViewById(android.R.id.*content*), false);  
  
 TextView tvMessage = layout.findViewById(R.id.*tvToastMessage*);  
 tvMessage.setText("Bạn đã đăng nhập thành công với email: " + email + " và mật khẩu: " + password);  
  
 Toast toast = new Toast(getApplicationContext());  
 toast.setDuration(Toast.*LENGTH\_LONG*);  
 toast.setView(layout);  
 toast.show();  
 }  
}

Kết quả

A screen shot of a phone

AI-generated content may be incorrect.



LAB2: Bài 2 \_ Bài tập 2

1. Chuẩn bị tài nguyên

Tài nguyên chuỗi

<resources>  
 <string name="app\_name">Từ vựng</string>  
 <string name="txt\_flight">Flight</string>  
 <string name="txt\_bonfire">Bonfire</string>  
 <string name="txt\_camera">Camera</string>  
 <string name="txt\_map">Map</string>  
 <string name="txt\_melon">Melon</string>  
 <string name="txt\_mountain">Mountain</string>  
 <string name="txt\_sunglasses">Sunglasses</string>  
 <string name="txt\_world">World</string>  
 <string name="txt\_mess">Mess</string>  
</resources>

Tài nguyên màu sắc

*<?*xml version="1.0" encoding="utf-8"*?>*<resources>  
 <color name="purple\_200">#319FFF</color>  
 <color name="purple\_500">#1E88E5</color>  
 <color name="purple\_700">#1E88E5</color>  
 <color name="teal\_200">#FF03DAC5</color>  
 <color name="teal\_700">#FF018786</color>  
 <color name="black">#FF000000</color>  
 <color name="white">#FFFFFFFF</color>  
 <color name="orange">#FB8C00</color>  
 <color name="gray">#EAE5E3</color>  
 <color name="orangeMid">#F4511E</color>  
</resources>

Tài nguyên ảnh

A screenshot of a computer

AI-generated content may be incorrect.

Actionbar layout

*<?*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="wrap\_content"  
 android:background="@color/purple\_200"  
 android:orientation="horizontal">  
 <ImageView  
 android:id="@+id/iv\_back"  
 android:layout\_width="60dp"  
 android:layout\_height="match\_parent"  
 android:layout\_marginEnd="10dp"  
 android:padding="10dp"  
 android:src="@drawable/ic\_back"  
 app:tint="@color/white"  
 tools:ignore="ContentDescription" />  
 <TextView  
 android:layout\_width="0dp"  
 android:layout\_height="56dp"  
 android:layout\_weight="1"  
 android:gravity="center\_vertical"  
 android:paddingStart="16dp"  
 android:text="@string/app\_name"  
 android:textColor="@color/white"  
 android:textSize="24sp"  
 tools:ignore="RtlSymmetry" />  
 <ImageView  
 android:id="@+id/iv\_dialer"  
 android:layout\_width="60dp"  
 android:layout\_height="match\_parent"  
 android:layout\_marginEnd="10dp"  
 android:padding="10dp"  
 android:src="@drawable/ic\_search"  
 app:tint="@color/white"  
 tools:ignore="ContentDescription" />  
</LinearLayout>

item\_topic layout

*<?*xml version="1.0" encoding="utf-8"*?>*<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="horizontal">  
 <ImageView  
 android:id="@+id/iv\_topic"  
 android:layout\_width="64dp"  
 android:layout\_height="match\_parent"  
 android:src="@drawable/ic\_mess"  
 tools:ignore="ContentDescription" />  
 <TextView  
 android:id="@+id/tv\_topic"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:layout\_marginStart="10dp"  
 android:gravity="center\_vertical"  
 android:text="@string/txt\_mess"  
 android:textColor="@color/black"  
 android:textSize="18sp" />  
</LinearLayout>

Activity main layout

*<?*xml version="1.0" encoding="utf-8"*?>*<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"  
 tools:context=".MainActivity">  
 <include layout="@layout/actionbar\_home" />  
 <LinearLayout  
 android:id="@+id/ln\_main"  
 android:padding="10dp"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical" />  
</LinearLayout>

Main activity

package com.example.lab2\_bai2\_2;  
import android.graphics.Insets;  
import android.os.Bundle;  
import android.view.LayoutInflater;  
import android.view.View;  
import android.widget.ImageView;  
import android.widget.LinearLayout;  
import android.widget.TextView;  
  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.core.view.ViewCompat;  
import androidx.core.view.WindowInsetsCompat;  
import androidx.core.view.WindowInsetsCompat.Type;  
  
  
public class MainActivity extends AppCompatActivity {  
 private static final int[] *ID\_DRAWABLES* = {R.drawable.*ic\_airplane*, R.drawable.*ic\_bonfire*,  
 R.drawable.*ic\_camera*,  
 R.drawable.*ic\_map*, R.drawable.*ic\_melon*, R.drawable.*ic\_mountain*,  
 R.drawable.*ic\_sunglasses*, R.drawable.*ic\_world*};  
 private static final int[] *ID\_TEXTS* = {  
 R.string.*txt\_flight*,  
 R.string.*txt\_bonfire*,  
 R.string.*txt\_camera*,  
 R.string.*txt\_map*,  
 R.string.*txt\_melon*,  
 R.string.*txt\_mountain*,  
 R.string.*txt\_sunglasses*,  
 R.string.*txt\_world* };  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 View mainLayout = findViewById(R.id.*ln\_main*);  
  
 ViewCompat.*setOnApplyWindowInsetsListener*(mainLayout, (v, insets) -> {  
 Insets systemInsets = insets.getInsets(Type.*systemBars*()).toPlatformInsets();  
 v.setPadding(  
 systemInsets.left,  
 systemInsets.top,  
 systemInsets.right,  
 systemInsets.bottom  
 );  
 return insets;  
 });  
 initView();  
 }  
 private void initView() {  
 LinearLayout lnMain = findViewById(R.id.*ln\_main*);  
 lnMain.removeAllViews();  
 for (int i = 0; i < *ID\_DRAWABLES*.length; i++) {  
 View v = LayoutInflater.*from*(this).inflate(R.layout.*item\_topic*, null);  
 ImageView ivTopic = v.findViewById(R.id.*iv\_topic*);  
 TextView tvTopic = v.findViewById(R.id.*tv\_topic*);  
 ivTopic.setImageResource(*ID\_DRAWABLES*[i]);  
 tvTopic.setText(*ID\_TEXTS*[i]);  
 LinearLayout.LayoutParams param = new LinearLayout.LayoutParams(  
 LinearLayout.LayoutParams.*MATCH\_PARENT*,  
 LinearLayout.LayoutParams.*MATCH\_PARENT*,  
 1.0f  
 );  
 v.setLayoutParams(param);  
 lnMain.addView(v);  
 }  
 }  
}

Kết quả

A screen shot of a phone

AI-generated content may be incorrect.

Tiến hành thêm activity topic detail layout

*<?*xml version="1.0" encoding="utf-8"*?>*<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:orientation="vertical"  
 android:padding="16dp"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent">  
  
 <ListView  
 android:id="@+id/lv\_words"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"/>  
</LinearLayout>

Tiến hành thêm activity topic detail

package com.example.lab2\_bai2\_2;  
  
import android.os.Bundle;  
import android.widget.ArrayAdapter;  
import android.widget.ListView;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
public class TopicDetailActivity extends AppCompatActivity {  
  
 public static final String *EXTRA\_TOPIC\_INDEX* = "topic\_index";  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_topic\_detail*);  
  
 ListView listView = findViewById(R.id.*lv\_words*);  
  
  
 int topicIndex = getIntent().getIntExtra(*EXTRA\_TOPIC\_INDEX*, 0);  
  
  
 String[][] wordsByTopic = {  
 {"Airplane", "Pilot", "Airport"},  
 {"Firewood", "Campfire", "Night"},  
 {"Camera", "Photo", "Lens"},  
 {"Map", "Compass", "Direction"},  
 {"Melon", "Watermelon", "Fruit"},  
 {"Mountain", "Peak", "Climb"},  
 {"Sunglasses", "Shade", "Sun"},  
 {"World", "Country", "Continent"}  
 };  
  
 String[] words = wordsByTopic[topicIndex];  
  
 ArrayAdapter<String> adapter = new ArrayAdapter<>(this,  
 android.R.layout.*simple\_list\_item\_1*,  
 words);  
 listView.setAdapter(adapter);  
 }  
}

trong activity main thêm sự kiện nhấn vào view

private void initView() {  
 LinearLayout lnMain = findViewById(R.id.*ln\_main*);  
 lnMain.removeAllViews();  
 for (int i = 0; i < *ID\_DRAWABLES*.length; i++) {  
 final int index = i;  
 View v = LayoutInflater.*from*(this).inflate(R.layout.*item\_topic*, null);  
 v.setOnClickListener(view -> {  
 Intent intent = new Intent(MainActivity.this, TopicDetailActivity.class);  
 intent.putExtra(TopicDetailActivity.*EXTRA\_TOPIC\_INDEX*, index);  
 startActivity(intent);  
 });  
 ImageView ivTopic = v.findViewById(R.id.*iv\_topic*);  
 TextView tvTopic = v.findViewById(R.id.*tv\_topic*);  
 ivTopic.setImageResource(*ID\_DRAWABLES*[i]);  
 tvTopic.setText(*ID\_TEXTS*[i]);  
 LinearLayout.LayoutParams param = new LinearLayout.LayoutParams(  
 LinearLayout.LayoutParams.*MATCH\_PARENT*,  
 LinearLayout.LayoutParams.*MATCH\_PARENT*,  
 1.0f  
 );  
 v.setLayoutParams(param);  
 lnMain.addView(v);  
  
  
 }  
}

Khai báo android manifest

<activity android:name=".TopicDetailActivity" />

Kết quả sau khi bấm vào Flight

A close-up of a phone

AI-generated content may be incorrect.

