# Lab Exercise 10: Implicit Intent

ActivityMain.java

package com.example.lab10\_implicitintent;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.app.Activity;  
import android.content.Intent;  
import android.net.Uri;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 EditText urlText = findViewById(R.id.*url*);  
 Button searchBtn = findViewById(R.id.*searchBtn*);  
  
 searchBtn.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 String url = "https://www." + urlText.getText().toString();  
 Uri web = Uri.*parse*(url);  
 Intent myIntent = new Intent(Intent.*ACTION\_VIEW*, web);  
  
 if (myIntent.resolveActivity(getPackageManager()) == null) {  
 Toast.*makeText*(MainActivity.this, "Invalid URL", Toast.*LENGTH\_SHORT*).show();  
 }  
  
 if (myIntent.resolveActivity(getPackageManager()) != null) {  
 startActivity(myIntent);  
 }  
 }  
 });  
 }  
}

strings.xml

<resources>  
 <string name="app\_name">Lab10: ImplicitIntent</string>  
 <string name="hint">Enter URL (without https://www.)</string>  
 <string name="search">search</string>  
</resources>

AndroidManifest.xml

*<?*xml version="1.0" encoding="utf-8"*?>*<manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 package="com.example.lab10\_implicitintent">  
  
 <queries>  
 <intent>  
 <action android:name="android.intent.action.VIEW" />  
 <category android:name="android.intent.category.BROWSABLE" />  
 <data android:scheme="https" />  
 </intent>  
 </queries>  
 <application  
 android:allowBackup="true"  
 android:icon="@mipmap/ic\_launcher"  
 android:label="@string/app\_name"  
 android:roundIcon="@mipmap/ic\_launcher\_round"  
 android:supportsRtl="true"  
 android:theme="@style/Theme.Lab10\_ImplicitIntent">  
 <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>

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"  
 tools:context=".MainActivity">  
  
 <EditText  
 android:id="@+id/url"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:hint="@string/hint"  
 android:importantForAutofill="no"  
 android:inputType="textUri"  
 android:minHeight="48dp"  
 android:textColorHint="#757575"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.111"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.499" />  
  
 <Button  
 android:id="@+id/searchBtn"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/search"  
 app:layout\_constraintBottom\_toBottomOf="@id/url"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toEndOf="@id/url"  
 app:layout\_constraintTop\_toTopOf="@id/url" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

OUTPUT

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