

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

