

Mobile Application Development

Practical 6: Android Intent

CODE:

Andriod_manifest.xml

```
<?xml version="1.0" encoding="utf-8" ?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.intent_acitivity">

    <uses-permission android:name="android.permission.INTERNET" />
    <uses-permission
android:name="android.permission.WRITE_EXTERNAL_STORAGE"/>
    <uses-permission
android:name="android.permission.READ_EXTERNAL_STORAGE"/>

    <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.IntentAcitivity">
        <activity android:name=".MainActivity2"></activity>
        <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"
android:background="#F9FBF8"
android:backgroundTint="@android:color/system_accent1_10"
tools:context="com.example.intent_acitivity.MainActivity">

```

```
<Button
```

```

    android:id="@+id/btnNavigate2"
    android:layout_width="120dp"
    android:layout_height="56dp"

    android:layout_alignParentStart="true"
    android:layout_alignParentTop="true"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginStart="120dp"
    android:layout_marginTop="44dp"
    android:layout_marginEnd="186dp"
    android:layout_marginBottom="419dp"
    android:backgroundTint="#EDE493"
    android:text="YouTube"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/btnNavigate"
    tools:ignore="MissingConstraints" />

```

```
<Button
```

```

    android:id="@+id/btn1"
    android:layout_width="77dp"
    android:layout_height="43dp"

    android:layout_alignParentStart="true"
    android:layout_alignParentTop="true"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginStart="282dp"
    android:layout_marginTop="486dp"
    android:layout_marginEnd="52dp"
    android:layout_marginBottom="80dp"
    android:text="next"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/urlText" />

```

```
<EditText
```

```

    android:id="@+id/urlText"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"

    android:layout_alignParentStart="true"
    android:layout_alignParentTop="true"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:ems="10"
    android:hint="@android:string/search_go"

```

```

        android:minHeight="30dp"
        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="0.112"
        tools:ignore="MissingConstraints,SpeakableTextPresentCheck" />

<Button
    android:id="@+id/btnNavigate"
    android:layout_width="120dp"
    android:layout_height="54dp"

    android:layout_alignParentStart="true"
    android:layout_alignParentTop="true"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:backgroundTint="#F1BABA"
    android:text="Google"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.389"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.248" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

Activity_main2.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">

    <ImageView
        android:id="@+id/img"
        android:layout_width="411dp"
        android:layout_height="294dp"
        android:layout_marginBottom="188dp"
        android:background="#E3F2FD"
        android:backgroundTint="#EEF5F6"
        android:visibility="visible"
        app:layout_constraintBottom_toTopOf="@+id/btn2"

```

```

        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="1.0"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="1.0"
        tools:ignore="MissingConstraints" />

<Button
    android:id="@+id/btn2"
    android:layout_width="122dp"
    android:layout_height="50dp"

    android:backgroundTint="#C6CDF4"
    android:text="Previous"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.05"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.859"
    tools:ignore="SpeakableTextPresentCheck" />

<TextView
    android:id="@+id/tv"
    android:layout_width="263dp"
    android:layout_height="56dp"
    android:layout_marginBottom="28dp"
    android:background="#64B5F6"
    android:backgroundTint="#EDE6DA"
    android:fontFamily="cursive"
    android:text="Show Image Form Gallery"
    android:textSize="25dp"
    app:layout_constraintBottom_toTopOf="@+id/img"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.495"
    app:layout_constraintStart_toStartOf="parent" />

<Button
    android:id="@+id/pickbtn"
    android:layout_width="147dp"
    android:layout_height="46dp"
    android:backgroundTint="#F4F0C5"
    android:text="Image"
    android:textColor="#777272"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.442"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.596" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

MainActivity.java

```
package com.example.intent_acitivity;

import androidx.appcompat.app.AppCompatActivity;
import android.Manifest;
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.ImageButton;
import com.karumi.dexter.Dexter;
import com.karumi.dexter.MultiplePermissionsReport;
import com.karumi.dexter.PermissionToken;
import com.karumi.dexter.listener.PermissionRequest;
import com.karumi.dexter.listener.multi.MultiplePermissionsListener;
import java.util.List;
public class MainActivity extends AppCompatActivity {
    Button btn1, btn2;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        btn1 = (Button) findViewById(R.id.btn1);
        final EditText editText = (EditText) findViewById(R.id.urlText);
        Button btn = (Button) findViewById(R.id.btnNavigate);
        Button btn2 = (Button) findViewById(R.id.btnNavigate2);

        btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {

                String url = "https://www.google.com/search?q=" +
editText.getText().toString();
                Intent intent = new Intent(Intent.ACTION_VIEW,
Uri.parse(url));
                startActivity(intent);
            }
        });
        btn1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent i = new Intent(getApplicationContext(),
                    MainActivity2.class);
                startActivity(i);
            }
        });
        btn2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                String url = "https://www.youtube.com/results?search_query=" +
editText.getText().toString();
```

```

        Intent in = new Intent(Intent.ACTION_VIEW, Uri.parse(url));
        startActivity(in);
    }
});
}
}

```

MainActivity2.java

```

package com.example.intent_acitivity;

import androidx.annotation.Nullable;
import androidx.appcompat.app.AppCompatActivity;
import android.Manifest;
import android.content.Intent;
import android.graphics.Bitmap;
import android.graphics.BitmapFactory;
import android.net.Uri;
import android.os.Bundle;
import android.provider.MediaStore;
import android.text.format.Formatter;
import android.view.View;
import android.widget.Button;
import android.widget.ImageButton;
import android.widget.ImageView;
import android.widget.Toast;
import com.karumi.dexter.Dexter;
import com.karumi.dexter.MultiplePermissionsReport;
import com.karumi.dexter.PermissionToken;
import com.karumi.dexter.listener.PermissionRequest;
import com.karumi.dexter.listener.multi.MultiplePermissionsListener;
import java.io.File;
import java.io.FileNotFoundException;
import java.io.InputStream;
import java.util.List;
public class MainActivity2 extends AppCompatActivity {
    Button btn1;
    Button pickbtnn;
    ImageView imgg;
    public static final int RESULT_IMAGE=1 ;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);
        btn1 = (Button) findViewById(R.id.btn2);
        pickbtnn = (Button) findViewById(R.id.pickbtn);
        imgg = (ImageView) findViewById(R.id.img);
        askPermission();
        btn1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent i = new Intent(getApplicationContext(),

```

```

        MainActivity.class);
        startActivity(i);
    }
});
pickbtn.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        openGallery();
    }
});
}
private void openGallery() {
    Intent gallery = new Intent(Intent.ACTION_PICK,
        MediaStore.Images.Media.INTERNAL_CONTENT_URI);
    startActivityForResult(gallery, RESULT_IMAGE);
}
protected void onActivityResult(int requestCode, int resultCode,
    @Nullable Intent data) {
    super.onActivityResult(requestCode, resultCode, data);
    if(resultCode == RESULT_OK){
        final Uri imguri =data.getData();//to take data as uri
        try {
            //to show image in image view uri have to convert into bitmap
            // so first convert it into inputStream and then it convert
into bitmap;
            final InputStream imgstream =
getContentResolver().openInputStream(imguri);//this will convert in

            final Bitmap selectImage =
BitmapFactory.decodeStream(imgstream);//this will convert in Bitmap.
            imgv.setImageBitmap(selectImage);//this will show that image
in imageview.
        } catch (FileNotFoundException e) {
            e.printStackTrace();
            Toast.makeText(this, "Something Went Wrong!",
                Toast.LENGTH_SHORT).show();
        }
    }
    else{
        Toast.makeText(this, "No Image Selected!",
            Toast.LENGTH_SHORT).show();
    }
}
private void askPermission() {
    Dexter.withContext(this)
        .withPermissions(Manifest.permission.READ_EXTERNAL_STORAGE,
            Manifest.permission.WRITE_EXTERNAL_STORAGE)
        .withListener(new MultiplePermissionsListener() {
            @Override
            public void
onPermissionsChecked(MultiplePermissionsReport
multiplePermissionsReport) {
            }
            @Override
            public void
onPermissionRationaleShouldBeShown(List<PermissionRequest> list,

```

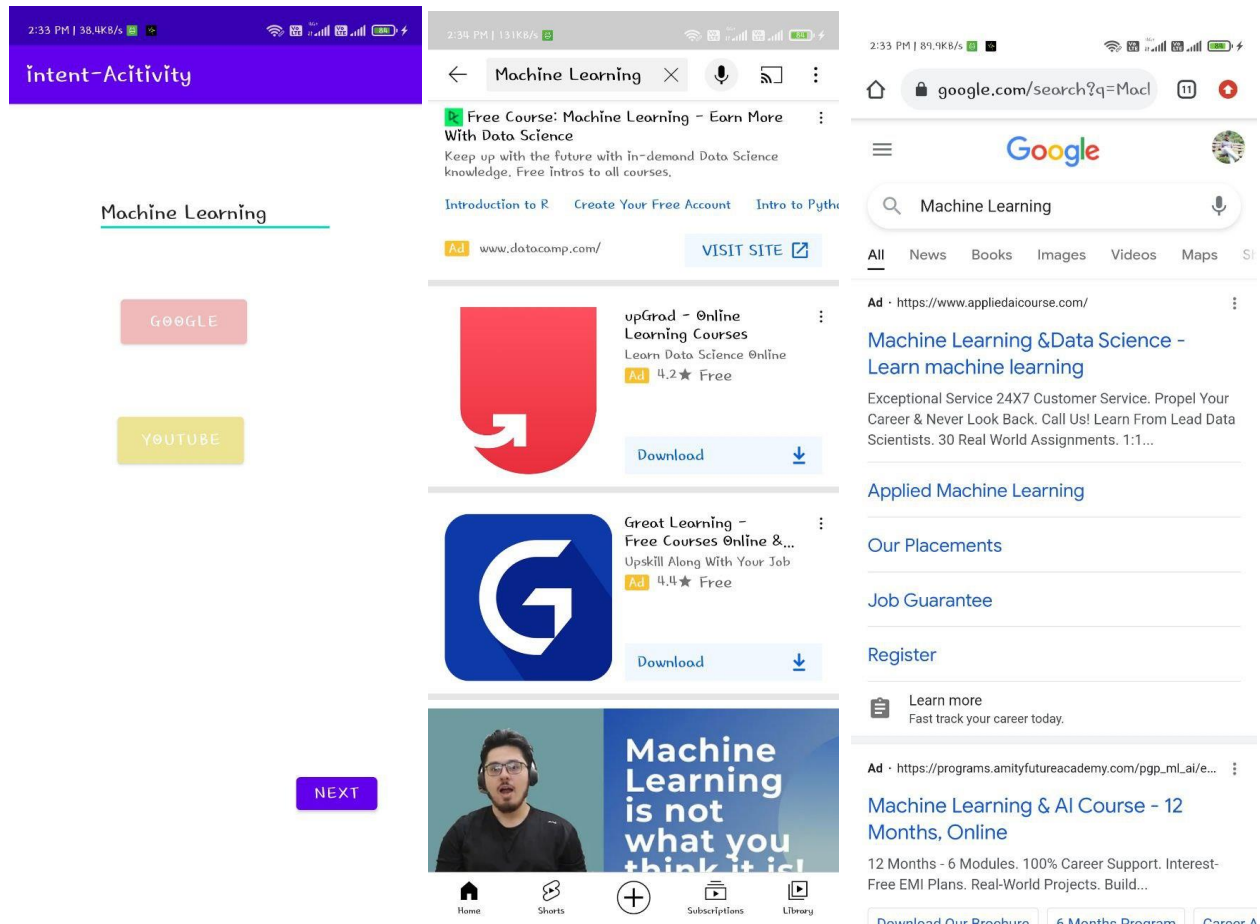
```

        }

        permissionToken) {
            permissionToken.continuePermissionRequest();
        }.check();
    }
}

```

Output





Show Image Form Gallery

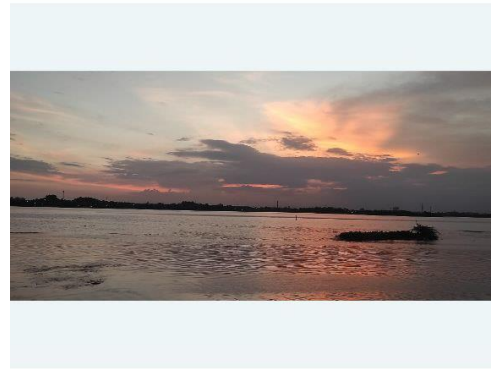


IMAGE

PREVIOUS



Show Image Form Gallery



IMAGE

PREVIOUS