

### AndroidManifest.xml

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

    <uses-permission
android:name="android.permission.CAMERA"/>
    <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.CameraApplication">
        <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
```

### MainActivity.java

```
package com.example.cameraapplication;
import android.Manifest;
import android.app.Activity;
import android.content.Intent;
import android.content.pm.PackageManager;
import android.graphics.Bitmap;
import android.provider.MediaStore;
//import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.ImageView;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;
import androidx.core.app.ActivityCompat;

public class MainActivity extends AppCompatActivity {

    Button btn;
    private static final int CAMERA_REQUEST = 123;
    ImageView imageView;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        btn = (Button) findViewById(R.id.idbtn);
        imageView = (ImageView )
findViewById(R.id.imageView);

    }
    public void btnClick(View v) {
```

```

xmlns:android="http://schemas.android.com/apk/res/a
ndroid"
    xmlns:app="http://schemas.android.com/apk/res-a
auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#54A8EC"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <Button
        android:id="@+id/idbtn"
        android:layout_width="325dp"
        android:layout_height="54dp"
        android:layout_gravity="center"
        android:fontFamily="monospace"
        android:onClick="btnClick"
        android:text="Launch Camera"
        android:textSize="20sp"

app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"

app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.76"
/>

    <ImageView
        android:id="@+id/imageView"
        android:layout_width="300dp"
        android:layout_height="300dp"
        android:layout_gravity="center"
        android:background="#ccc"
        android:padding="5dp"

app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"

```

```

if (ActivityCompat.checkSelfPermission(this, Manifest.permission.
n.CAMERA) != PackageManager.PERMISSION_GRANTED)
    {
        Toast.makeText(this, "Please grant permission to
camera", Toast.LENGTH_SHORT).show();
        requestPermission();
    }
    else
    {
        Intent intent = new
Intent (MediaStore.ACTION_IMAGE_CAPTURE);
        startActivityForResult(intent, CAMERA_REQUEST);
    }

}

private void requestPermission()
{
    ActivityCompat.requestPermissions(this, new
String[] {Manifest.permission.CAMERA}, 1);
}

    public void onActivityResult(int requestCode, int
resultCode, Intent data) {
        super.onActivityResult(requestCode, resultCode,
data);
        if (requestCode == CAMERA_REQUEST && resultCode ==
Activity.RESULT_OK) {
            Bitmap photo = (Bitmap)
data.getExtras().get("data");
            imageView.setImageBitmap(photo);
        }
    }
}

```

strings.xml

```
app:layout_constraintHorizontal_bias="0.495"  
app:layout_constraintStart_toStartOf="parent"  
    app:layout_constraintTop_toTopOf="parent"  
    app:layout_constraintVertical_bias="0.308"  
>  
</androidx.constraintlayout.widget.ConstraintLayout  
>
```

```
<resources>  
    <string name="app_name">CameraApplication</string>  
    <string name="launch_camera">Launch Camera</string>  
    <string name="todo">TODO</string>  
</resources>
```

## Output



