

# How permission in android is defined and checked Explain with Gallery and Camera Permission.

## 1. Xml File

```
<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="match_parent"
    android:gravity="center"
    tools:context=".MainActivity">

    <Button
        android:id="@+id/btn1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="camera permission"

    />

    <Button
        android:id="@+id/btn2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Gallery Permission"

    />

</LinearLayout>
```

## 2. Kotlin File

```
package com.example.ca3

import android.content.Intent
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.provider.MediaStore
import android.widget.Button
import android.widget.Toast
import androidx.activity.result.contract.ActivityResultContracts
import androidx.constraintlayout.widget.ConstraintLayout
import com.google.android.material.snackbar.Snackbar

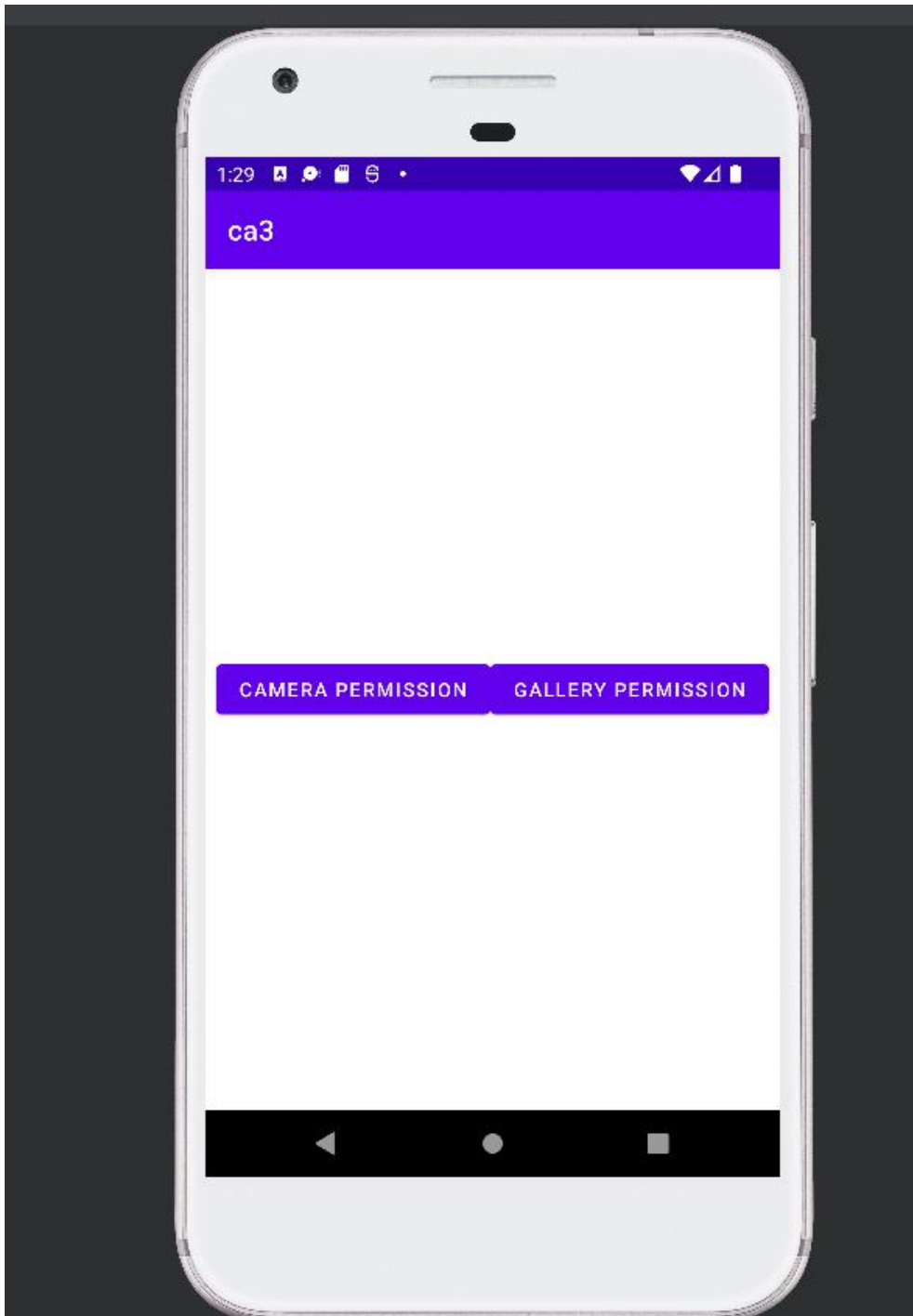
class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
        val btn1 = findViewById<Button>(R.id.btn1)
        val btn2 = findViewById<Button>(R.id.btn2)

        val requestCam =
            registerForActivityResult(ActivityResultContracts.RequestPermission()) {
                if (it) {
                    Toast.makeText(this, "Permission Granted",
                        Toast.LENGTH_LONG).show()
                    val int_cmr = Intent(MediaStore.ACTION_IMAGE_CAPTURE)
                    startActivity(int_cmr)
                    finish()
                } else {
                    Toast.makeText(this, "Permission is denied",
                        Toast.LENGTH_LONG).show()
                }
            }

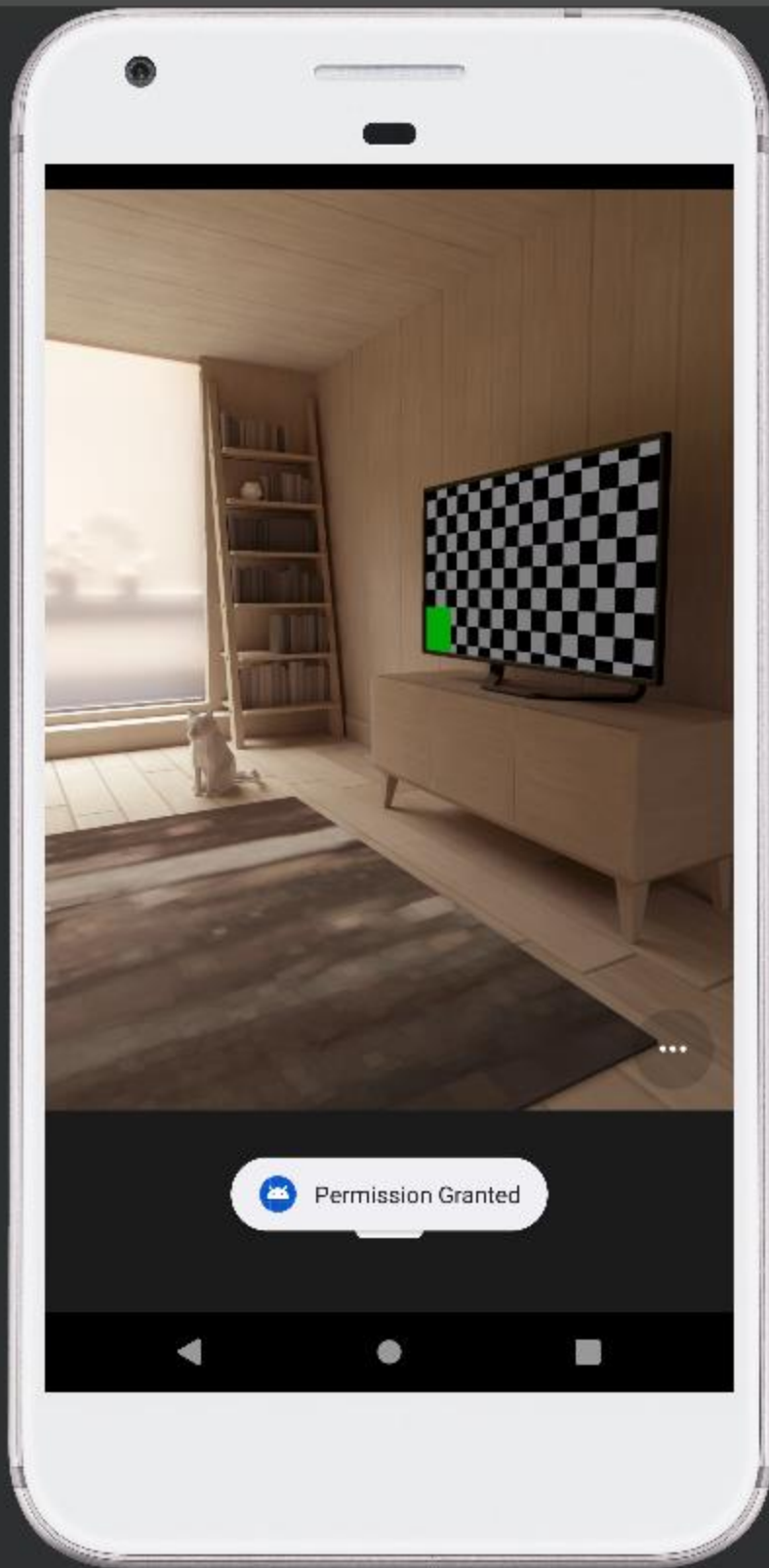
        val requestgall =
            registerForActivityResult(ActivityResultContracts.RequestPermission()) {
                if (it) {
                    Toast.makeText(this, "Gallery Permissions are
                        Granted", Toast.LENGTH_LONG).show()

                    val gal_int = Intent(Intent.ACTION_VIEW)
                    gal_int.setType("image/*")
                    startActivity(gal_int)
                    finish()
                } else {
                    Toast.makeText(this, "Gallery Permissions are
                        Granted", Toast.LENGTH_LONG).show()
                }
            }
    }
}
```

```
        }  
    }  
  
    btn1.setOnClickListener {  
        requestCam.launch(android.Manifest.permission.CAMERA)  
    }  
  
    btn2.setOnClickListener {  
requestgall.launch(android.Manifest.permission.READ_EXTERNAL_STORAGE)  
    }  
    }  
}
```



Hold Shift to control camera



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