

Android Dev Kotlin



CS 402: Mobile Development

Permissions Overview

To access certain device features, you have to ask the user for permission.

Some are granted on install.

Others need to be asked at run time.

Steps

Add permission to AndroidManifest.xml

Check permission

If granted, launch camera activity

If not yet granted ask

If already asked and denied, show rationale

Steps

Launch camera with startActivityResult

Take the picture

Grab the bitmap data from the intent data

Display bitmap data in ImageView

Permissions

val permissionCheck = ContextCompat.checkSelfPermission(this, Manifest.permission.[PERMISSION])

CAMERA

ACCESS_COURSE_LOCATION

INTERNET

READ_CONTACTS

SEND_SMS

WRITE_EXTERNAL_STORAGE

https://developer.android.com/guide/topics/permissions/requesting.html#perm-groups

Permission Statuses

```
PackageManager.PERMISSION_GRANTED
```

PackageManager.PERMISSION_DENIED

```
if (permissionCheck != PackageManager.PERMISSION_GRANTED) {
   Log.i("BSU", "Permission to record denied")
   requestPermissions()
```

Request Permission

```
private fun requestPermissions(){
    ActivityCompat.requestPermissions(this,
    arrayOf(android.Manifest.permission.CAMERA),
    888)
}
```

Permission Request Result

```
override fun onRequestPermissionsResult(requestCode: Int, permissions:
    Array<out String>, grantResults: IntArray) {
        super.onRequestPermissionsResult(requestCode, permissions, grantResults)
}
```

Permission Request Result

```
if (permission != PackageManager.PERMISSION_GRANTED) {
 if (ActivityCompat.shouldShowRequestPermissionRationale(this, Manifest.permission.CAMERA)) {
   val builder = AlertDialog.Builder(this)
   builder.setMessage("Permission to access the camera is required.")
    .setTitle("Permission required")
   builder.setPositiveButton("OK") { dialog, id ->
    requestPermissions()
   val dialog = builder.create()
   dialog.show()
 }else{
   requestPermissions()
```

Camera

val intent = Intent(MediaStore.ACTION_IMAGE_CAPTURE)

startActivityForResult(intent, 999)