



## Activity Result APIs



Here in my office, we have used the best practices to develop Android apps.



Show a popup saying:
 "Please go to the
settings screen and grant
all permissions the app
needs."



## First, import the ActivityResultCallback.

import androidx.activity.result.ActivityResultCallback

class MainActivity : ComponentActivity(), ActivityResultCallback<Boolean> {

Check if user has permission or not.

If not, launch requesting the permission.

```
class MainActivity : ComponentActivity(), ActivityResultCallback<Boolean> {
   private lateinit var launcher: ActivityResultLauncher<String>
   private val viewModel: MainViewModel by viewModels { MainViewModel.Factory }
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
       setContent {...}
       if (hasRecordAudioPermission().not()) {
           launcher = registerForActivityResult(
                ActivityResultContracts.RequestPermission(),
           launcher.launch(Manifest.permission.RECORD_AUDIO)
```

The result will call the following method:

```
class MainActivity : ComponentActivity(), ActivityResultCallback<Boolean> {
    private lateinit var launcher: ActivityResultLauncher<String>
    private val viewModel: MainViewModel by viewModels { MainViewModel.Factory }

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    override fun onCreate(savedInstanceState: Bundle?) {...}

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    override fun onActivityResult(result: Boolean?) {
        if (result ≠ true) {
            Toast.makeText( context: this, text: "Permissions are required", Toast.LENGTH_SHORT).show()
            finish()
```



To multiple permissions, you need to update the code:

1. Update the interface you are implementing:

ActivityResultCallback<Map<String, Boolean>>

2. Launcher will ask for *multiple permissions*, so we have an array:

private lateinit var launcher: ActivityResultLauncher<Array<String>>

3. Update the launcher initialization:

**4.** You will have a boolean for each permission saying if it is granted or not.

override fun onActivityResult(result: Map<String, Boolean>)







I'm a model for these people. I must guide them as a jedi master.