

José Alfonso Mora Lores

Professional Android Engineer



https://twitter.com/josealfonsomora

https://www.linkedin.com/in/josealfonsomora

josealfonsomora@gmail.com



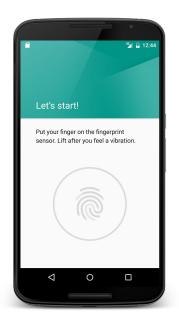
Android P

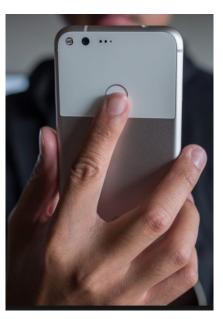


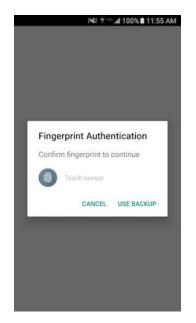
Biometrics











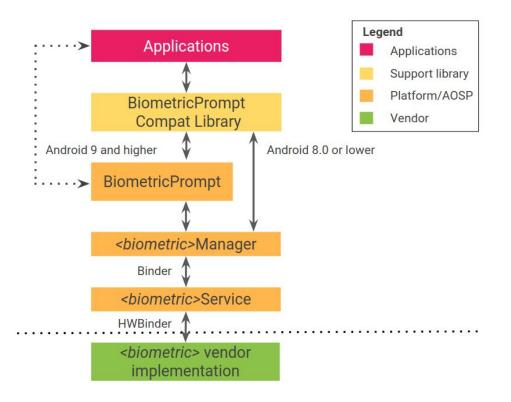
Fingerprint Authentication















added in <u>API level 23</u> Deprecated since <u>API level 28</u>

FingerprintManagerCompat

added in version 24.1.0



BiometricPrompt

added in API level 28



https://developer.android.com/reference/android/hardware/fingerprint/FingerprintManager



https://developer.android.com/reference/android/hardware/fingerprint/FingerprintManager

minSdkVersion 23



https://developer.android.com/reference/android/hardware/fingerprint/FingerprintManager

minSdkVersion 23

<uses-permission android:name="android.permission.USE_FINGERPRINT"/>



https://developer.android.com/reference/android/hardware/fingerprint/FingerprintManager

minSdkVersion 23

<uses-permission android:name="android.permission.USE_FINGERPRINT"/>

val fingerprintManager = getSystemService(FingerprintManager::class.java)



https://developer.android.com/reference/android/hardware/fingerprint/FingerprintManager

minSdkVersion 23

<uses-permission android:name="android.permission.USE_FINGERPRINT"/>

val fingerprintManager = getSystemService(FingerprintManager::class.java)

fingerprintManager.*isHardwareDetected*

fingerprintManager.hasEnrolledFingerprints()



https://developer.android.com/reference/android/hardware/fingerprint/FingerprintManager

minSdkVersion 23

<uses-permission android:name="android.permission.USE_FINGERPRINT"/>

val fingerprintManager = getSystemService(FingerprintManager::class.java)

fingerprintManager.*isHardwareDetected*

fingerprintManager.hasEnrolledFingerprints()

fingerprintManager.authenticate(...)



FingerprintManagerCompat



https://developer.android.com/reference/androidx/core/hardware/fingerprint/FingerprintManagerCompat

minSdkVersion 23 (or less)

<uses-permission android:name="android.permission.USE_FINGERPRINT"/>

val fingerprintManager = getSystemService(FingerprintManager::class.java)

fingerprintManager.*isHardwareDetected*

fingerprintManager.hasEnrolledFingerprints()

fingerprintManager.authenticate(...)

FingerprintManagerCompat



BiometricPrompt



https://developer.android.com/reference/android/hardware/biometrics/BiometricPrompt

API 28

<uses-permission android:name="android.permission.USE_BIOMETRIC"/>

```
private fun biometricPrompt() = BiometricPrompt
.Builder(this)
.setTitle("title")
.setSubtitle("subTitle")
.setDescription("description")
.setNegativeButton(
    "Cancel",
    mainExecutor,
    DialogInterface.OnClickListener { _, _ -> fingerPrintCallback.text = "description"
    })
.build()
```

```
biometricPrompt().authenticate(
cancellationSignal,
mainExecutor,
callback
```