

# deepwaterooo deepwateroooMe – I am the same GitHub account person

deepwaterooo

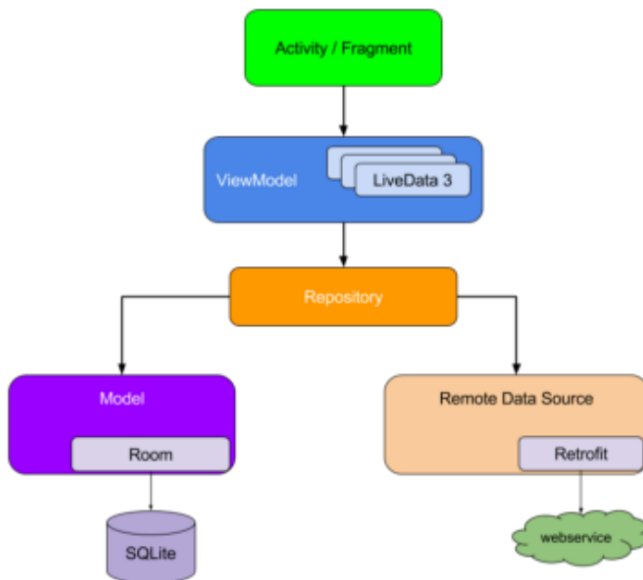
September 19, 2022

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## 1 Design

### 1.1 MVVM:



## 2 Requirement: <https://square.github.io/microsite/mobile-interview-project/>

- Build an **employee directory app** that shows a list of employees from the provided end-point.
- The app should display a list (or any kind of **collection view**!) which shows all the employees returned from the JSON endpoint described below.

- Each item in the view should contain a **summary of the employee**, including their **photo, name, and team** at minimum. You may add more information to the summary if you want, or **sort employees in any fashion** you'd like –sort and group by name, team, etc.
- There should be some UX to reload the employee list from within the app at any time. The UX can be done in any way you want: **a button, pull-to-refresh**, etc.
- If there is any additional UI/UX you would like to add, feel free to do so! We only ask that you please **do not build any more screens** than this list. Do not worry about building custom controls or UI elements –using **system-provided, standard elements** is totally fine.
- Be sure to **appropriately handle the normal variety of errors when querying an endpoint**. The app should **display useful loading, empty, and error states** where appropriate. **If images fail to load, displaying a placeholder** is fine.
- One extra thing we ask is that you please ensure you **do not use more network bandwidth than necessary** –load expensive resources such as **photos on-demand only**.
- The **employee list should not be persisted to disk**. You can reload it from the network **on each app launch and when refresh is requested** –but no more often than that unintentionally.
- Android developers in particular should take care **not to make redundant network calls** when the **phone is rotated, or when memory is low**.
- **Images**, however, should **be cached on disk** so as to not waste device bandwidth. You may use an **open source image caching solution**, or write your own caching. Do not rely upon HTTP caching for image caching.
- Note that photos at a given URL will never change. Once one is loaded, you do not need to reload the photo. If an employee's photo changes, they will be given a new photo URL.
- **Tests should be provided for the app**. We do not expect 100% code coverage, so please use your best judgment for what should be tested. We're also interested only in **unit tests**. Feel free to skip snapshot or app tests.
- If any employee is malformed, it is fine to invalidate the entire list of employees in the response - there is no need to exclude only malformed employees.
- If there are no employees to show, the app should present an **empty state** view instead of an empty list.

### 3 main logs tracked

Device File Explorer			
Emulator Pixel_3_XL_API_30 Android 11, API 30			
Name	Permi...	Date	Size
> com.android.theme.icon_pack.rounded.launcher	drwx----	2022-09-17 09:15	4 KB
> com.android.theme.icon_pack.rounded.settings	drwx----	2022-09-17 09:15	4 KB
> com.android.theme.icon_pack.rounded.systemui	drwx----	2022-09-17 09:15	4 KB
> com.android.theme.icon_pack.rounded.themepicker	drwx----	2022-09-17 09:15	4 KB
> com.android.timezone.updater	drwx----	2022-09-17 09:15	4 KB
> com.android.traceur	drwx----	2022-09-17 09:15	4 KB
> com.android.vending	drwx----	2022-09-17 09:15	4 KB
> com.android.vpndialogs	drwx----	2022-09-17 09:15	4 KB
> com.android.wallpaper.livepicker	drwx----	2022-09-17 09:15	4 KB
> com.android.wallpaperbackup	drwx----	2022-09-17 09:15	4 KB
> com.android.wallpapercropper	drwx----	2022-09-17 09:15	4 KB
> com.android.wallpaperpicker	drwxr-x-	2022-09-17 09:15	4 KB
> com.android.wifi.resources	drwx----	2022-09-17 09:15	4 KB
> com.google.android.apps.maps	drwx----	2022-09-17 09:15	4 KB
> com.google.android.gms	drwx--x-	2022-09-17 09:16	4 KB
> com.google.android.gsf	drwx----	2022-09-17 09:15	4 KB
> com.google.android.overlay.emulator.gmsconfig	drwx----	2022-09-17 09:15	4 KB
> com.google.android.overlay.googlewebview	drwx----	2022-09-17 09:15	4 KB
> com.google.android.sdksetup	drwx----	2022-09-17 09:15	4 KB
> com.google.android.trichromelibrary_410410681	drwx----	2022-09-17 09:15	4 KB
> com.google.android.webview	drwx----	2022-09-17 09:15	4 KB
✓ com.me.sample	drwx----	2022-09-17 09:15	4 KB
✓ cache	drwxrws-	2022-09-17 09:15	4 KB
✓ image_manager_disk_cache	drwx--S-	2022-09-17 09:15	4 KB
04f0999c72c9c2a2e2701ce6eed6ba6ca5821ff73f6788t	-rw-----	2022-09-17 09:15	23.4 KB
07405c2c3d0c4355243f201b92a1fdc4df1bdd32879d4f	-rw-----	2022-09-17 09:15	20.3 KB
155f44b33b31168e99850a0bfcae8c552e9afa9ce7c63b	-rw-----	2022-09-17 09:15	21.3 KB
32fe6c3bcc7c1388f7c123582c39d9b037a9dd031f206f	-rw-----	2022-09-17 09:15	20.6 KB
4e6cf9b45f52b25c5a8bc8ae76813c4d6d613f81b6de6f	-rw-----	2022-09-17 09:15	21.5 KB
6360383b25ed90ccb45aea07f6e4860a299361b62468e	-rw-----	2022-09-17 09:15	22.1 KB
b9b1fb20b703dea700eb8a1e6fe295ac4eee8e58a3b80	-rw-----	2022-09-17 09:15	22.9 KB
c79ab6307f2673591a5a1a25e1f342a88115ae3e4a3823	-rw-----	2022-09-17 09:15	20 KB
d5533e1c9f1b94466e29699e598dab880cfeffa45e860t	-rw-----	2022-09-17 09:15	21.6 KB
journal	-rw-----	2022-09-17 09:15	1.9 KB
03782da29406fede9080d302a30f405c.0	-rw-----	2022-09-17 09:15	7.5 KB
03782da29406fede9080d302a30f405c.1	-rw-----	2022-09-17 09:15	6.4 KB
journal	-rw-----	2022-09-17 09:15	124 B
> code_cache	drwxrws-	2022-09-17 09:15	4 KB
> databases	drwxrwx	2022-09-17 09:15	4 KB
> files	drwxrwx	2022-09-17 09:15	4 KB
> lib	lrwxrwxr	2022-09-17 09:15	98 B

```

com.me.sample D/MainActivity: onCreate()
com.me.sample I/ViewRootImpl@9fdb9bb[MainActivity]: setView = com.android.internal.policy.DecorView@ec3fbc TM=true
com.me.sample D/MainActivity: onStart()
com.me.sample I/ViewRootImpl@9fdb9bb[MainActivity]: stopped(false) old=false
com.me.sample D/MainActivity: onResume()
com.me.sample I/ViewRootImpl@e7eb0db[MainActivity]: setView = com.android.internal.policy.DecorView@798929f TM=true
com.me.sample I/ViewRootImpl@9fdb9bb[MainActivity]: Relay returned: old=(0,142,1440,2872) new=(510,1297,930,1717) req=(4
com.me.sample I/ViewRootImpl@9fdb9bb[MainActivity]: [DP] dp(1) 1 android.view.ViewRootImpl.reportNextDraw:11374 android.vie
com.me.sample I/BufferQueueProducer: [ViewRootImpl@9fdb9bb[MainActivity]]#0(BLAST Consumer)0](id:297f00000000,api:1,p:10623,
com.me.sample I/ViewRootImpl@e7eb0db[MainActivity]: Relay returned: old=(0,0,1440,3040) new=(0,0,1440,3040) req=(1440,30
com.me.sample I/ViewRootImpl@9fdb9bb[MainActivity]: [DP] dp(1) 1 android.view.ViewRootImpl.reportNextDraw:11374 android.vie
com.me.sample I/BufferQueueProducer: [ViewRootImpl@e7eb0db[MainActivity]]#1(BLAST Consumer)1](id:297f00000001,api:1,p:10623,
com.me.sample I/ViewRootImpl@e7eb0db[MainActivity]: [DP] pdf(0) 1 android.view.ViewRootImpl.lambda$addFrameCompleteCallback
com.me.sample I/ViewRootImpl@e7eb0db[MainActivity]: [DP] rdf()

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com.me.sample D/ViewRootImpl@e7eb0db[MainActivity]: reportDrawFinished (fn: -1)
com.me.sample I/ViewRootImpl@9fdb9bb[MainActivity]: [DP] pdf(0) 1 android.view.ViewRootImpl.lambda$addFrameCompleteCallback
com.me.sample I/ViewRootImpl@9fdb9bb[MainActivity]: [DP] rdf()
com.me.sample D/ViewRootImpl@9fdb9bb[MainActivity]: reportDrawFinished (fn: -1)
com.me.sample I/ViewRootImpl@9fdb9bb[MainActivity]: dispatchDetachedFromWindow
com.me.sample I/ViewRootImpl@e7eb0db[MainActivity]: MSG_WINDOW_FOCUS_CHANGED 1 1
com.me.sample I/MainActivity: Started in onCreate(), running until onDestroy(): 0
com.me.sample I/MainActivity: Started in onCreate(), running until onDestroy(): 1
com.me.sample I/MainActivity: Started in onCreate(), running until onDestroy(): 2

com.me.sample D/MainActivity: onCreate()
com.me.sample I/ViewRootImpl@cfdc231[MainActivity]: setView = com.android.internal.policy.DecorView@11ea6c1 TM=true
com.me.sample D/MainActivity: onStart()
com.me.sample I/ViewRootImpl@cfdc231[MainActivity]: stopped(false) old=false
com.me.sample D/MainActivity: onResume()
com.me.sample I/ViewRootImpl@ccc5e51[MainActivity]: setView = com.android.internal.policy.DecorView@41dfb5 TM=true
com.me.sample I/ViewRootImpl@cfdc231[MainActivity]: Resizing android.view.ViewRootImpl@d4d842: frame=[510,1297][930,1717] req=(4
com.me.sample I/ViewRootImpl@cfdc231[MainActivity]: Relay layout returned: old=(0,142,1440,2872) new=(510,1297,930,1717) req=(4
com.me.sample I/ViewRootImpl@cfdc231[MainActivity]: [DP] dp(1) 1 android.view.ViewRootImpl.reportNextDraw:11374 android.view
com.me.sample I/BufferQueueProducer: [ViewRootImpl@cfdc231[MainActivity]]#0(BLAST Consumer)0(id:2e8c00000000,api:1,p:11916,
com.me.sample I/ViewRootImpl@cfdc231[MainActivity]: [DP] pdf(0) 1 android.view.ViewRootImpl.lambda$addFrameCompleteCallback
com.me.sample I/ViewRootImpl@ccc5e51[MainActivity]: [DP] dp(1) 1 android.view.ViewRootImpl.reportNextDraw:11374 android.view
com.me.sample I/BufferQueueProducer: [ViewRootImpl@ccc5e51[MainActivity]]#1(BLAST Consumer)1(id:2e8c00000001,api:1,p:11916,
com.me.sample I/ViewRootImpl@ccc5e51[MainActivity]: [DP] pdf(0) 1 android.view.ViewRootImpl.lambda$addFrameCompleteCallback
com.me.sample I/ViewRootImpl@ccc5e51[MainActivity]: [DP] rdf()
com.me.sample D/ViewRootImpl@ccc5e51[MainActivity]: reportDrawFinished (fn: -1)
com.me.sample I/ViewRootImpl@cfdc231[MainActivity]: [DP] pdf(0) 1 android.view.ViewRootImpl.lambda$addFrameCompleteCallback
com.me.sample I/ViewRootImpl@cfdc231[MainActivity]: [DP] rdf()
com.me.sample D/ViewRootImpl@cfdc231[MainActivity]: reportDrawFinished (fn: -1)
com.me.sample I/ViewRootImpl@cfdc231[MainActivity]: handleResized, msg = 5 frames=ClientWindowFrames{frame=[510,1297][930,1
com.me.sample I/ViewRootImpl@cfdc231[MainActivity]: [DP] dp(1) 1 android.view.ViewRootImpl.reportNextDraw:11374 android.view

```

- Click and select the app from the recently used app list, and relaunching process without requesting data through http requests:

```

com.me.sample D/MainActivity: onCreate()
com.me.sample I/ViewRootImpl@1413ed8[MainActivity]: setView = com.android.internal.policy.DecorView@11529a TM=true
com.me.sample D/MainActivity: onStart()
com.me.sample D/MainActivity: onRestoreInstanceState()
com.me.sample I/ViewRootImpl@1413ed8[MainActivity]: stopped(false) old=false
com.me.sample D/MainActivity: onResume()
com.me.sample I/ViewRootImpl@a363778[MainActivity]: setView = com.android.internal.policy.DecorView@e9d0fec TM=true
com.me.sample I/ViewRootImpl@1413ed8[MainActivity]: Relay layout returned: old=(0,142,1440,2872) new=(510,1297,930,1717) req=(4
com.me.sample I/ViewRootImpl@1413ed8[MainActivity]: [DP] dp(1) 1 android.view.ViewRootImpl.reportNextDraw:11374 android.view
com.me.sample I/BufferQueueProducer: [ViewRootImpl@1413ed8[MainActivity]]#0(BLAST Consumer)0(id:610c00000000,api:1,p:24844,
com.me.sample I/ViewRootImpl@a363778[MainActivity]: Relay layout returned: old=(0,0,1440,3040) new=(0,0,1440,3040) req=(1440,30
com.me.sample I/ViewRootImpl@a363778[MainActivity]: [DP] dp(1) 1 android.view.ViewRootImpl.reportNextDraw:11374 android.view
com.me.sample I/BufferQueueProducer: [ViewRootImpl@a363778[MainActivity]]#1(BLAST Consumer)1(id:610c00000001,api:1,p:24844,
com.me.sample I/ViewRootImpl@a363778[MainActivity]: [DP] pdf(0) 1 android.view.ViewRootImpl.lambda$addFrameCompleteCallback
com.me.sample I/ViewRootImpl@a363778[MainActivity]: [DP] rdf()
com.me.sample D/ViewRootImpl@a363778[MainActivity]: reportDrawFinished (fn: -1)
com.me.sample I/ViewRootImpl@1413ed8[MainActivity]: [DP] pdf(0) 1 android.view.ViewRootImpl.lambda$addFrameCompleteCallback
com.me.sample I/ViewRootImpl@1413ed8[MainActivity]: [DP] rdf()
com.me.sample D/ViewRootImpl@1413ed8[MainActivity]: reportDrawFinished (fn: -1)
com.me.sample I/ViewRootImpl@1413ed8[MainActivity]: dispatchDetachedFromWindow
com.me.sample I/ViewRootImpl@a363778[MainActivity]: MSG_WINDOW_FOCUS_CHANGED 1 1

```

```

1 com.me.sample D/MainRepository: saveImageData: 删除员工头像数据成功
2 com.me.sample D/MainRepository: saveImageData: 插入员工头像数据: 11 条
3 com.me.sample D/MainRepository: saveEmployees: 删除员工链表数据成功
4 com.me.sample D/MainRepository: saveEmployees: 插入员工链表数据: 11 条
5 com.me.sample I/ViewRootImpl@ccc5e51[MainActivity]: MSG_WINDOW_FOCUS_CHANGED 1 1
6 com.me.sample D/InputMethodManager: startInputInner - Id : 0
7 com.me.sample I/InputMethodManager: startInputInner - mService.startInputOrWindowGainedFocus
8 com.me.sample D/MainRepository: saveImageData: 员工头像数据保存成功
9 com.me.sample D/MainRepository: saveEmployees: 员工数据保存成功
10 com.me.sample D/InputMethodManager: startInputInner - Id : 0
11 com.me.sample I/MainActivity: Started in onCreate(), running until onDestroy(): 0
12 com.me.sample D/OpenGLRenderer: setSurface called with nullptr
13 com.me.sample W/System: A resource failed to call close.
14 com.me.sample I/MainActivity: Started in onCreate(), running until onDestroy(): 1
15 com.me.sample I/MainActivity: Started in onCreate(), running until onDestroy(): 2
16 com.me.sample D/MainActivity: onPause()
17 com.me.sample I/ViewRootImpl@ccc5e51[MainActivity]: MSG_WINDOW_FOCUS_CHANGED 0 1
18 com.me.sample D/InputTransport: Input channel destroyed: 'Clients', fd=113
19 com.me.sample I/ViewRootImpl@ccc5e51[MainActivity]: handleAppVisibility mAppVisible=true visible=false
20 com.me.sample D/OpenGLRenderer: setSurface called with nullptr
21 com.me.sample D/OpenGLRenderer: setSurface() destroyed EGLSurface
22 com.me.sample D/OpenGLRenderer: destroyEglSurface
23 com.me.sample I/ViewRootImpl@ccc5e51[MainActivity]: RelayLayout returned: old=(0,0,1440,3040) new=(0,0,1440,3040) req=(1440,3040)8 dur=8 res=0x
24 com.me.sample I/ViewRootImpl@ccc5e51[MainActivity]: stopped(true) old=false
25 com.me.sample D/MainActivity: onStop()
26 com.me.sample D/MainActivity: onSaveInstanceState()
27 com.me.sample I/ViewRootImpl@ccc5e51[MainActivity]: RelayLayout returned: old=(0,0,1440,3040) new=(0,0,1440,3040) req=(1440,3040)8 dur=4 res=0x
28 ? D/ProcessState: Binder ioctl to enable oneway spam detection failed: Invalid argument
29 ? D/ActivityThread: setConscryptValidator
30 ? D/ActivityThread: setConscryptValidator - put
31 ? W/com.me.sample: DexFile /data/data/com.me.sample/code_cache/.studio/instruments-1f2f27f8.jar is in boot class path but is not in a known
32 com.me.sample W/com.me.sample: Redefining intrinsic method java.lang.Thread java.lang.Thread.currentThread(). This may cause the unexpected
33 spread.currentThread() in methods that have already been compiled.
34 com.me.sample W/com.me.sample: Redefining intrinsic method boolean java.lang.Thread.interrupted(). This may cause the unexpected use of the
35 methods that have already been compiled.
36 com.me.sample D/ActivityThread: handleBindApplication()++ app=com.me.sample
37 com.me.sample D/CompatibilityChangeReporter: Compat change id reported: 171979766; UID 10702; state: ENABLED
38 com.me.sample W/com.me.sample: ClassLoaderContext classpath size mismatch, expected=0, found=1 [PCL[] | PCL[/data/data/com.me.sample/code_ca
39 com.me.sample D/LoadedApk: LoadedApk: makeApplication() appContext.mDpPackageName=com.me.sample appContext.mBasePackageName=com.me.sample
40 com.me.sample D/NetworkSecurityConfig: Using Network Security Config from resource network_security_config debugBuild: true
41 com.me.sample D/ActivityThread: handleBindApplication() --
42 com.me.sample I/MMKV: Enable checkProcessMode()
43 com.me.sample I/MMKV: <native-bridge.cpp:104::JNI_OnLoad> current API level = 31, libc++_shared=0
44 com.me.sample I/MMKV: <MMKV.cpp:165::initialize> version v1.2.11, page size 4096, arch arm64-v8a
45 com.me.sample I/MMKV: <MMKV.cpp:176::initialize> armv8 AES instructions is supported
46 com.me.sample I/MMKV: <MMKV.cpp:184::initialize> armv8 CRC32 instructions is supported
47 com.me.sample I/MMKV: <MMKV.cpp:207::initializeMMKV> root dir: /data/user/0/com.me.sample/files/mmkv
48 com.me.sample I/MMKV: <MemoryFile.cpp:97::open> open fd[0x4d], /data/user/0/com.me.sample/files/mmkv/mmkv.default
49 com.me.sample I/MMKV: <MemoryFile.cpp:97::open> open fd[0x4e], /data/user/0/com.me.sample/files/mmkv/mmkv.default.crc
50 com.me.sample I/MMKV: <MMKV_IO.cpp:81::loadFromFile> loading [mmkv.default] with 0 actual size, file size 4096, InterProcess 0, meta info ve
51 com.me.sample I/MMKV: <MMKV_IO.cpp:130::loadFromFile> loaded [mmkv.default] with 0 key-values
52 com.me.sample D/OpenGLRenderer: RenderThread::requireGLContext()
53 com.me.sample D/OpenGLRenderer: RenderThread::setGrContext()
54 com.me.sample D/MainActivity: onCreate()
55 com.me.sample D/MainActivity: (savedInstanceState != null): true
56 com.me.sample I/DecorView: [INFO] isPopOver=false, config=true
57 com.me.sample I/DecorView: updateCaptionType >> DecorView@b21fe66[], isFloating=false, isApplication=true, hasWindowControllerCallback=true,
58 com.me.sample I/DecorView: setCaptionType = 0, this = DecorView@b21fe66[]
59 com.me.sample I/DecorView: getCurrentDensityDpi: from real metrics, densityDpi=560 msg=resources_loaded
60 com.me.sample D/MainActivity: onStart()
61 com.me.sample D/MainActivity: onStart()
62 com.me.sample D/MainActivity: onStart()
63 com.me.sample D/MainActivity: onStart()
64 com.me.sample I/ViewRootImpl@cfdc231[MainActivity]: setView = com.android.internal.policy.DecorView@b21fe66 TM=true
65 com.me.sample I/ViewRootImpl@cfdc231[MainActivity]: RelayLayout returned: old=(0,0,1440,3040) new=(0,0,1440,3040) req=(1440,3040)0 dur=7 res=0x
66 com.me.sample I/ViewRootImpl@cfdc231[MainActivity]: [DP] dp(1) 1 android.view.ViewRootImpl.reportNextDraw:11374 android.view.ViewRootImpl.pe
67 com.me.sample D/hw-ProcessState: Binder ioctl to enable oneway spam detection failed: Invalid argument
68 com.me.sample D/OpenGLRenderer: eglCreateWindowSurface
69 com.me.sample I/BufferQueueProducer: [ViewRootImpl@cfdc231[MainActivity]#0(BLAST Consumer)0](id:2d4e00000000,api:1,p:11598,c:11598) queueBuf
70 com.me.sample I/ViewRootImpl@cfdc231[MainActivity]: [DP] pdf(0) 1 android.view.ViewRootImpl.lambda$addFrameCompleteCallbackIfNeeded$3$ViewRo
71 com.me.sample I/ViewRootImpl@cfdc231[MainActivity]: [DP] rdf(0) 1 android.os.Handler.handleCallback:938
72 com.me.sample I/ViewRootImpl@cfdc231[MainActivity]: [DP] rdf()
73 com.me.sample I/ViewRootImpl@cfdc231[MainActivity]: reportDrawFinished (fn: -1)
74 com.me.sample I/ViewRootImpl@cfdc231[MainActivity]: MSG_WINDOW_FOCUS_CHANGED 1 1
75 com.me.sample D/InputMethodManager: startInputInner - Id : 0
76 com.me.sample I/InputMethodManager: startInputInner - mService.startInputOrWindowGainedFocus
77 com.me.sample D/InputMethodManager: startInputInner - Id : 0
78 com.me.sample I/MainActivity: Started in onCreate(), running until onDestroy(): 0
79 com.me.sample W/System: A resource failed to call close.

```

```

com.me.sample D/MainRepository: saveImageData: 删除员工头像数据成功
com.me.sample D/MainRepository: saveImageData: 插入员工头像数据: 11 条
com.me.sample D/MainRepository: saveEmployees: 删除员工链表数据成功
com.me.sample D/MainRepository: saveEmployees: 插入员工链表数据: 11 条
com.me.sample I/ViewRootImpl@ccc5e51[MainActivity]: MSG_WINDOW_FOCUS_CHANGED 1 1
com.me.sample D/InputMethodManager: startInputInner - Id : 0
com.me.sample I/InputMethodManager: startInputInner - mService.startInputOrWindowGainedFocus
com.me.sample D/MainRepository: saveImageData: 员工头像数据保存成功
com.me.sample D/MainRepository: saveEmployees: 员工数据保存成功
com.me.sample D/InputMethodManager: startInputInner - Id : 0
com.me.sample I/MainActivity: Started in onCreate(), running until onDestroy(): 0
com.me.sample D/OpenGLRenderer: setSurface called with nullptr
com.me.sample W/System: A resource failed to call close.
com.me.sample I/MainActivity: Started in onCreate(), running until onDestroy(): 1
com.me.sample I/MainActivity: Started in onCreate(), running until onDestroy(): 2

```

```

com.me.sample D/MainActivity: onPause()
com.me.sample I/ViewRootImpl@ccc5e51[MainActivity]: MSG_WINDOW_FOCUS_CHANGED 0 1
com.me.sample D/InputTransport: Input channel destroyed: 'ClientS', fd=113
com.me.sample I/ViewRootImpl@ccc5e51[MainActivity]: handleAppVisibility mAppVisible=true visible=false
com.me.sample D/OpenGLRenderer: setSurface called with nullptr
com.me.sample D/OpenGLRenderer: setSurface() destroyed EGLSurface
com.me.sample D/OpenGLRenderer: destroyEglSurface
com.me.sample I/ViewRootImpl@ccc5e51[MainActivity]: Relayout returned: old=(0,0,1440,3040) new=(0,0,1440,3040) req=(1440,3040)
com.me.sample I/ViewRootImpl@ccc5e51[MainActivity]: stopped(true) old=false
com.me.sample D/MainActivity: onStop()
com.me.sample D/MainActivity: onSaveInstanceState()
com.me.sample I/ViewRootImpl@ccc5e51[MainActivity]: Relayout returned: old=(0,0,1440,3040) new=(0,0,1440,3040) req=(1440,3040)
? I/com.me.sample: Late-enabling -Xcheck:jni
? E/USNET: USNET: appName=com.me.sample
? D/ProcessState: Binder ioctl to enable oneway spam detection failed: Invalid argument
? D/ActivityThread: setConscryptValidator
? D/ActivityThread: setConscryptValidator - put
? W/com.me.sample: DexFile /data/data/com.me.sample/code_cache/.studio/instruments-1f2f27f8.jar is in boot class path but is not
com.me.sample W/com.me.sample: Redefining intrinsic method java.lang.Thread java.lang.Thread.currentThread(). This may cause the unex
com.me.sample W/com.me.sample: Redefining intrinsic method boolean java.lang.Thread.interrupted(). This may cause the unex
com.me.sample D/ActivityThread: handleBindApplication()++ app=com.me.sample
com.me.sample D/CompatibilityChangeReporter: Compat change id reported: 171979766; UID 10702; state: ENABLED
com.me.sample W/com.me.sample: ClassLoaderContext classpath size mismatch. expected=0, found=1 (PCL[] | PCL[/data/data/com.me.sample/
com.me.sample D/LoadedApk: LoadedApk::makeApplication() appContext.mOpPackageName=com.me.sample appContext.mBasePackageName=com.me.sample
com.me.sample D/NetworkSecurityConfig: Using Network Security Config from resource network_security_config debugBuild: true
com.me.sample D/ActivityThread: handleBindApplication() --
com.me.sample I/MMKV: Enable checkProcessMode()
com.me.sample I/MMKV: <native-bridge.cpp:104::JNI_OnLoad> current API level = 31, libc++_shared=0
com.me.sample I/MMKV: <MMKV.cpp:165::initialize> version v1.2.11, page size 4096, arch arm64-v8a
com.me.sample I/MMKV: <MMKV.cpp:176::initialize> armv8 AES instructions is supported
com.me.sample I/MMKV: <MMKV.cpp:184::initialize> armv8 CRC32 instructions is supported
com.me.sample I/MMKV: <MMKV.cpp:207::initializeMMKV> root dir: /data/user/0/com.me.sample/files/mmkv
com.me.sample I/MMKV: <MemoryFile.cpp:97::open> open fd[0x4d], /data/user/0/com.me.sample/files/mmkv/mmkv.default
com.me.sample I/MMKV: <MemoryFile.cpp:97::open> open fd[0x4e], /data/user/0/com.me.sample/files/mmkv/mmkv.default.crc
com.me.sample I/MMKV: <MMKV.IO.cpp:81::loadFromFile> loading [mmkv.default] with 0 actual size, file size 4096, InterProces
com.me.sample I/MMKV: <MMKV.IO.cpp:130::loadFromFile> loaded [mmkv.default] with 0 key-values
com.me.sample D/OpenGLRenderer: RenderThread::requireGLContext()

com.me.sample D/OpenGLRenderer: RenderThread::setGrContext()
com.me.sample D/MainActivity: onCreate()
com.me.sample D/MainActivity: (savedInstanceState != null): true
com.me.sample I/DecorView: [INF0] isPopOver=false, config=true
com.me.sample I/DecorView: updateCaptionType >> DecorView@b21fe66[], isFloating=false, isApplication=true, hasWindowControl
com.me.sample D/DecorView: setCaptionType = 0, this = DecorView@b21fe66[]
com.me.sample I/DecorView: getCurrentDensityDpi: from real metrics. densityDpi=560 msg=resources.loaded
com.me.sample D/MainActivity: onStart()
com.me.sample D/MainActivity: onRestoreInstanceState()
com.me.sample W/com.me.sample: Accessing hidden method Landroid/view/View;->computeFitSystemWindows(Landroid/graphics/Rect;
com.me.sample W/com.me.sample: Accessing hidden method Landroid/view/ViewGroup;->makeOptionalFitsSystemWindows()V (unsupported
com.me.sample D/MainActivity: onResume()
com.me.sample I/ViewRootImpl@cfdc231[MainActivity]: setView = com.android.internal.policy.DecorView@b21fe66 TM=true
com.me.sample I/ViewRootImpl@cfdc231[MainActivity]: Relayout returned: old=(0,0,1440,3040) new=(0,0,1440,3040) req=(1440,3040)
com.me.sample I/ViewRootImpl@cfdc231[MainActivity]: [DP] dp(1) 1 android.view.ViewRootImpl.reportNextDraw:11374 android.view
com.me.sample D/hw-ProcessState: Binder ioctl to enable oneway spam detection failed: Invalid argument
com.me.sample D/OpenGLRenderer: eglCreateWindowSurface
com.me.sample I/BufferQueueProducer: [ViewRootImpl@cfdc231[MainActivity]#0(BLAST Consumer)0](id:2d4e00000000,api:1,p:11598,
com.me.sample I/ViewRootImpl@cfdc231[MainActivity]: [DP] pdf(0) 1 android.view.ViewRootImpl.lambda$addFrameCompleteCallback
com.me.sample I/ViewRootImpl@cfdc231[MainActivity]: [DP] rdf()
com.me.sample D/ViewRootImpl@cfdc231[MainActivity]: reportDrawFinished (fn: -1)
com.me.sample I/ViewRootImpl@cfdc231[MainActivity]: MSG_WINDOW_FOCUS_CHANGED 1 1
com.me.sample D/InputMethodManager: startInputInner - Id : 0
com.me.sample I/InputMethodManager: startInputInner - mService.startInputOrWindowGainedFocus
com.me.sample D/InputMethodManager: startInputInner - Id : 0
com.me.sample I/MainActivity: Started in onCreate(), running until onDestroy(): 0
com.me.sample W/System: A resource failed to call close.

```

- <https://www.jianshu.com/p/8311410de676>
- <https://blog.csdn.net/fitatao/article/details/117519733>
- <https://github.com/xitu/gold-miner/blob/master/TOD0/getting-started-with-retrofit.md>
- <https://developer.aliyun.com/article/609862>