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Contents

1	要求	1
2	主要思路	2

1 要求

- Overview
 - Build an employee directory app that shows a list of employees from the provided endpoint.
 - 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.
- MVVM: 需要数据驱动, viewModel 里定义一个状态变量, 来标记当前的活动状态
 - 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.

2 主要思路

- Retrofit + RxJava: 好像是更合适的,可以用注解,并且用得更为广泛
 - 搜索关键字: Retrofit + OkHttp +RxJava 网络库构建
 - **OkHttp**: 网络请求处理, 主要是在应用启动的时候, 什么时机开始发布和调用网络请求。 所以这个可以不用了, 大家都喜欢新的更好用的库
- 图片本地缓存: 第三方库找一个, 还是用 AndroidX 的 Room
- 现在的难点:不知道怎么定义图片数据库,同时以 OkHTTP respnose 回来的连接起来
- 应用的 **启动优化**: 重中之重,需要借助这个小应用弄懂弄清楚,**不知道如何拆解网络请求的** 步骤,什么时候加载,初始化之类的?以达到较好的启动优化

• MVVM 设计: 只有一个页面,相对就简单方便多了。工作中的案例是使用 MVVM 但自己编辑逻辑处理信号下发,与数据驱动的 UI 更新,没有实现双向数据绑定的;可是这里感觉 双向数据绑定更简单,会有哪些可能的问题呢?这里基本可以当作不需要双向,因为一个 UI 按钮要求刷新是唯一的 UI 需求;更多的只是需要时候的数据往 UI 加载更新;所以 可以简单使用观察者模式,UI 观察数据的变化就可以了

• 图片的加载与处理: 用样可以使用么第三方库 glide

- 图片的加载与处理:用样可以使用么第三方库 CircularImageView
- AndroidX RecyclerView 的使用:选择相对更为高效和方便管理的库和数据结构来使用
- Constraint Layout vs Coordinate Layout: 暂时先用任何简单的 layout 先能运行起一个大致的框架来,再进一步优化
- 我丢掉了的文件呀, 我写过的项目呀, 不是在进 Lucid 之前写得好好的一个项目, 现在源码全丢了。。。。。该死的 GitHub.....