

GO-JEK Android Assignment

Goal

The goal of this assignment is to build a simple single screen app which shows the current trending Github repositories fetched from a public API. The design and business specifications have been provided which we expect you to follow as closely as possible.

We have deliberately kept the app simple enough for everyone to attempt it, but we are keen to see the approach you take to solve it. You have the freedom to give your best into it and demonstrate your skills for us to evaluate you better.

Requirements

- The app should support a minimum SDK version of 19
- The app should fetch the trending repositories from the provided public API and display it to the users (refer fig. 1)
- While the data is being fetched, the app should show a loading state (refer fig. 2). Shimmer animation is optional
- If the app is not able to fetch the data, then it should show an error state to the user with an option to retry again (refer fig. 6)
- All the items in the list should be in their collapsed state by default and can be expanded on being tapped (refer fig. 4)
- Tapping any item will expand it to show more details and collapse any already expanded item. Tapping the same item in expanded state should collapse it
- The app should be able to handle configuration changes (like rotation)
- The app should have 100% offline support. Once the data is fetched successfully from remote, it should be stored locally and served from cache thereafter till the cache is not expired
- The cached data should only be valid for a duration of 2 hour after that the app should attempt to refresh the data from remote and purge the cache if successful
- The app should give a pull-to-refresh option to the user to force fetch data from remote (refer fig. 5)

Acceptance Criteria

Your assignment can be rejected if -

- It doesn't use Git or the commit history doesn't convey the progress clearly
- It doesn't follow standard coding guidelines (we prefer [this](#) and [this](#))
- It doesn't follow the given UI design guidelines closely
- It doesn't have enough unit test coverage
- It doesn't follow SRP in the architecture (it should be extensible, maintainable and testable)

Your assignment has more chances of being accepted if -

- It follows granular, meaningful Git commit history (refer [here](#))
- We highly prefer you to use Kotlin
- Has good unit and UI test coverage
- Follows reactive paradigm using RxJava
- Uses popular frameworks for Dependency Injection like Dagger, Koin
- Uses Espresso and MockWebserver for UI testing

API Details

The complete API docs are available [here](#). You need to fetch the data from [/repositories](#) endpoint. The *"language"* and *"since"* are optional parameters and are not needed in this case.

You will get a list of the trending repositories as a response from this API. If interested, you can have a look at the backend source code [here](#).

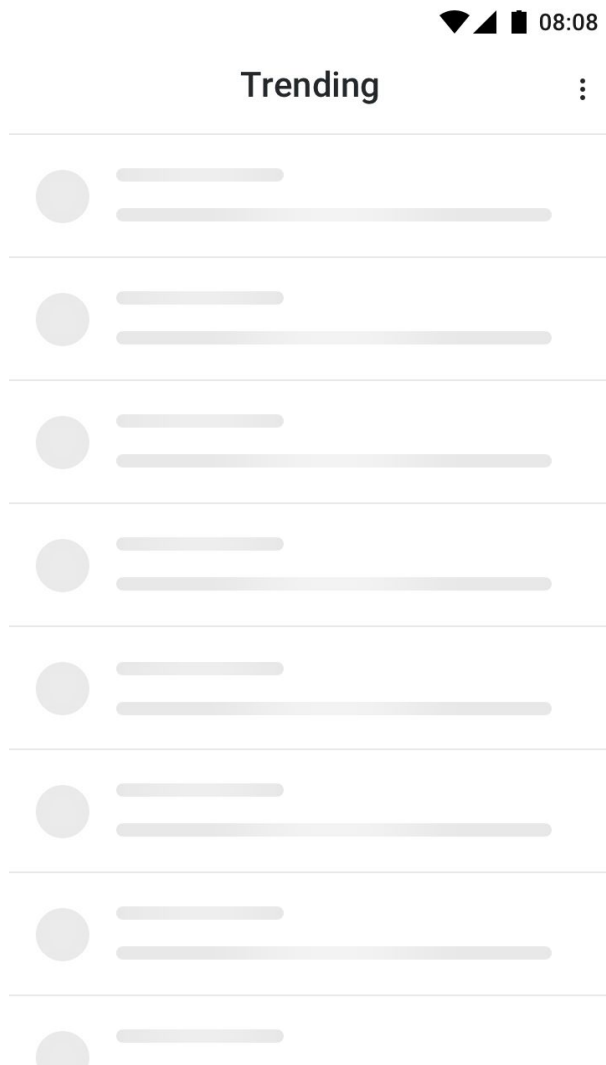
Design Details

Assets

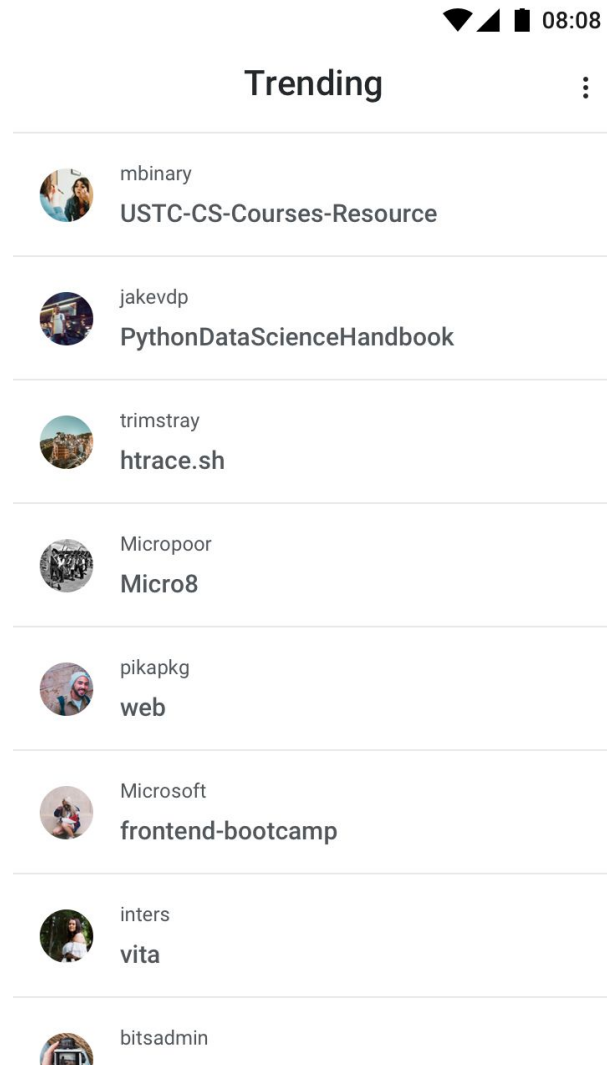
You can download all the required assets from [here](#).

Screens

Below are the designs all the screens and components of the app. You can also download them from [here](#) to view them in full-resolution with **all the measurement and style information**.











(Fig 1. Loading state while repositories are being fetched)



(Fig 2. List of trending repositories)

Trending










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mbinary
USTC-CS-Courses-Resource
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jakevdp
PythonDataScienceHandbook
- 
trimstray
htrace.sh
- 
Micropoor
Micro8
- 
pikapkg
web
- 
Microsoft
frontend-bootcamp
- 
inters
vita
- 
bitsadmin

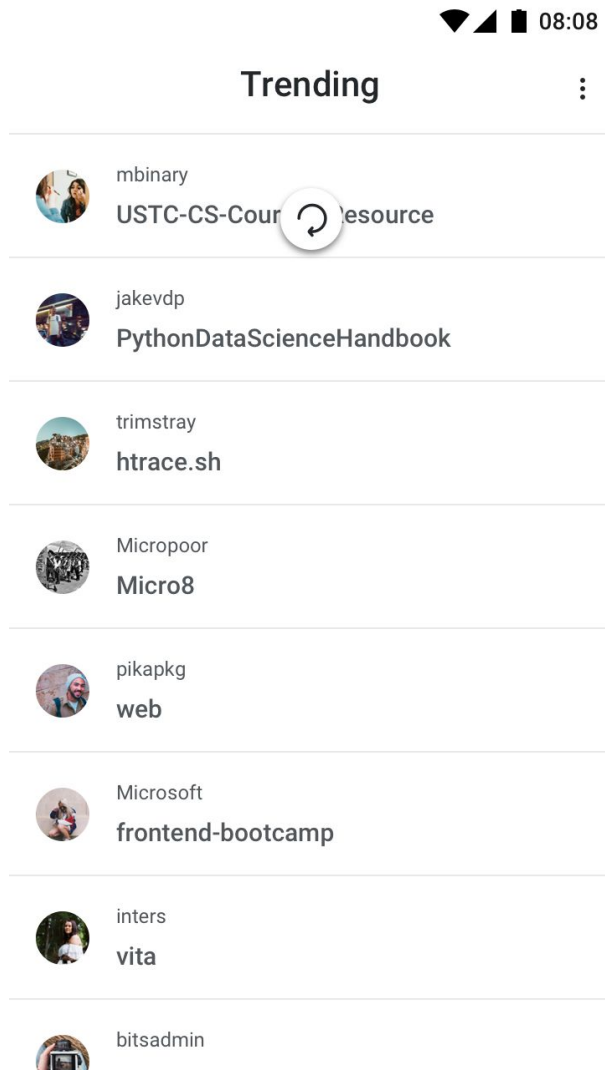
(Fig 3. Touch feedback on items)

Trending

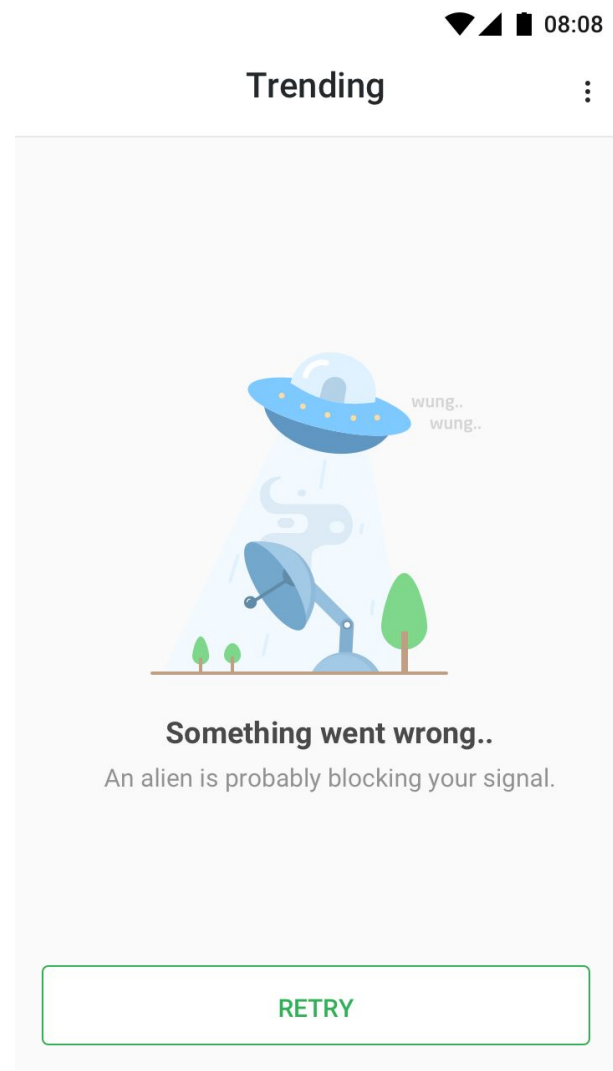


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mbinary
USTC-CS-Courses-Resource
 中国科学技术大学计算机学院课程资源(<https://mbinary.xyz/ustc-cs/>)
 C++ 14,236 4,376
- 
jakevdp
PythonDataScienceHandbook
- 
trimstray
htrace.sh
- 
Micropoor
Micro8
- 
pikapkg
web
- 
Microsoft
frontend-bootcamp
- 
inters
vita

(Fig 4. Items can expand on being tapped)



(Fig 5. Pull-to-refresh to fetch fresh data)



(Fig 6. Error state with retry option)

Duration

We expect you to submit the assignment within 5 days of receiving it. Given the size of this project, this time should be enough for you to comfortably complete it.

Submission Guidelines

Once you have completed the assignment, please make a ZIP archive of it along with the *.git* folder and send it the recruiter you are in touch with. **Please do not upload the solution to Github, Bitbucket, etc.**

If you have any doubts anywhere on the assignment, feel free to get in touch with our recruiter. All the best!