

FreshWorks Android Giphy Assignment

The Assignment

Use the Giphy API to create an Android app which allows users to search, view, favourite, and unfavourite GIFs. Here are some links to the Giphy documentation and the endpoints you will use:

Documentation	https://developers.giphy.com/docs/
Trending GIF Endpoint	https://api.giphy.com/v1/gifs/trending
Search GIFs Endpoint	https://api.giphy.com/v1/gifs/search

Features

- All GIFs in the app must be running (ie. in motion)
- The user must see a list of trending GIFs when launching the app
- The user must be able to type any search term into a search area on the first screen and have the view refresh the list with the results of their search
- The user must see a grid of his/her favourite GIFs on the second screen
- The user must be able to add and remove GIFs to and from their favourites



Specifications

- There should be one activity with two Fragments
- The Fragments should be swipeable using a TabLayout and ViewPager

First Fragment

- Contains a search bar (EditText, SearchView, etc.) at the top
- Contains a RecyclerView that displays searched GIFs in a single column list
- The RecyclerView should load trending GIFs if there is no search term provided
- Show a loading indicator when loading GIFs or refreshing the list

Second Fragment

- Contains a RecyclerView that displays a grid (at least two columns) of the user's favourite GIFs stored locally on the device

List/Grid Item

- Should contain a layout including a running GIF
- Should contain a button which allows the user to add or remove a GIF from their favourites list
 - This button must also indicate if the GIF is a favourite or not


Bonus

- Use a software architecture pattern (ie. MVP, MVVM, VIPER, etc.)
- Use Coroutines and Room
- Use Kotlin instead of Java
- Add pagination (infinite scrolling) to the GIF lists
- Add animations



- Add unit tests for your code

Notes

- Please use Git as version control for your work
- Please push your work to an online personal repository (ie. Github, etc.)
- When your work is complete please send us a link to the repo and we will begin the review process
- You are welcome to use any libraries that you desire
 - You might benefit from using a library to load the GIFs 
- Feel free to ask any questions to help clarify the project
- Please apply the best code practices and architecture design for creating robust and scalable applications to show off your best skills
- We ask that you please keep all information from this assignment confidential
- Please do not use the Giphy SDK for this project, we are looking for candidates to display a solid understanding of REST APIs