



# Android Take Home Project

## Goal

Create an app using the Flickr API which displays recent photos. The app should allow for the searching of photos as well as displaying images in a grid view by default.

## Requirements

- Set up a project from scratch.
- The app should have a Text box that will let users enter text and search for images, When enter/button is hit, if user does not enter any text, it should grab recent photos, otherwise it should query based on the text user entered
- The app should display Images in a grid view with 3 columns. Images should be square.
- There should be error handling for network calls and loading UI, simple spinning circular progress and snack bar for error will do.
- The app should allow simple pagination when scrolling. \* Please do not use the Paging lib from google and have your own implementation \*
- You can use any libraries you want to use (compose is cool if you are proficient in it)

## Bonus Points For

- We should be able to pull up information about a photo if it is tapped and an enlarged photo should display the correct aspect ratio.
- There should be some unit test coverage

## What we are looking for

- Above functionalities in the order of importance
- Best practices and clean code.
- Build as if this was a real production app with proper architecture and separation of concerns. Please try not to spend too much time perfecting the solution for above requirements. For any other improvements you cannot get to within the time frame, please mention them in the ReadMe. You will have time to talk about it during the onsite. Ideally, the assignment should not take more than a couple hours.
- If you have some cool ideas for doing certain things, show off and impress!
- Don't worry about making things too pretty, we are more interested in good code.

## API Reference

**API Key:** a0222db495999c951dc33702500fdc4d

### Get recent photos:

Documentation: <https://www.flickr.com/services/api/flickr.photos.getRecent.html>

Example query:

[https://www.flickr.com/services/rest/?method=flickr.photos.getRecent&api\\_key=a0222db495999c951dc33702500fdc4d&format=json&nojsoncallback=1](https://www.flickr.com/services/rest/?method=flickr.photos.getRecent&api_key=a0222db495999c951dc33702500fdc4d&format=json&nojsoncallback=1)

### Search:

Documentation: <https://www.flickr.com/services/api/flickr.photos.search.html>

Example query:

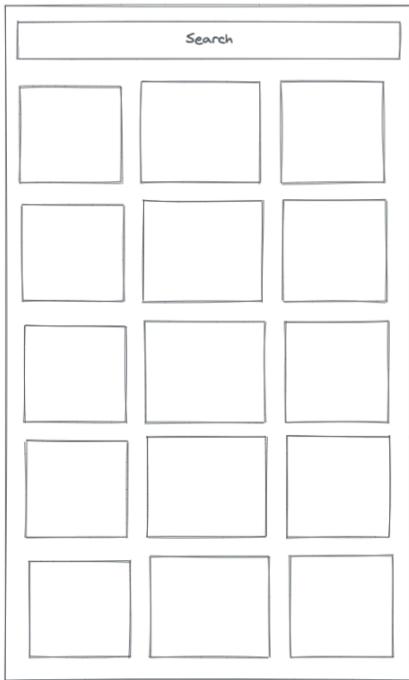
[https://www.flickr.com/services/rest/?method=flickr.photos.search&api\\_key=a0222db495999c951dc33702500fdc4d&text=spiderman&format=json&nojsoncallback=1](https://www.flickr.com/services/rest/?method=flickr.photos.search&api_key=a0222db495999c951dc33702500fdc4d&text=spiderman&format=json&nojsoncallback=1)

### Image Loading:

Documentation: <https://www.flickr.com/services/api/misc.urls.html>

Format: [https://live.staticflickr.com/{server-id}/{id}\\_{secret}.jpg](https://live.staticflickr.com/{server-id}/{id}_{secret}.jpg)

# Example Wireframe



## Submission Instructions

- Create a new public github repository.
- Set up your local environment however you like and push your changes upstream to the newly created environment.
- Submit your git repository link to **Android Mobile Eng Team** cc'ing the recruiting team. If you want to explain any decisions or have special notes for how to run the project, please include them in the ReadMe along with a screen recording of the working app.
- You will have 3 days to complete your assignment. If you have any questions about the assignment, please contact **Android Mobile Eng Team** for help.