Kamcord Android Programming Challenge
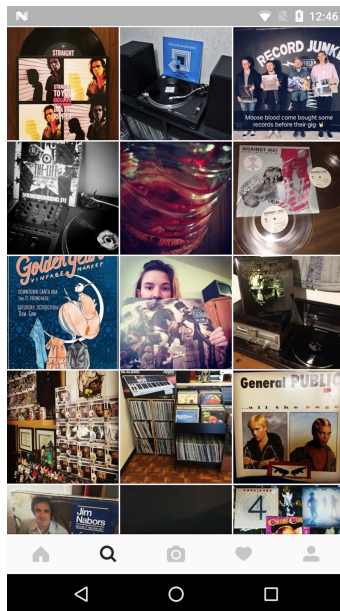
Introduction:

One of our challenges at Kamcord is content discovery. We've added a new tab for users to discover short content videos. The videos tab allows users to browse through all the featured videos available on Kamcord. You can download the Kamcord app from the play store and test it at https://play.google.com/store/apps/details?id=com.kamcord.app&hl=en.

Specifications:

We would like you to build a simple videos feed. The videos view should have each item displays one video. Each cell should display the video's thumbnail and number of hearts. Keep in mind that on tablets there are 5 items per row, while phones only have 3 items per row. Tapping on a cell should play an mp4 video.

Similar to the Instagram search tab

The following REST API URL is the endpoint for the featured videos feed:
https://api.kamcord.com/v1/feed/set/featuredShots

End-Point Requirements:
- "count" is a required URL parameter for the endpoint. You can utilize that property any way you want.
- A device-token is required in the HTTP Headers. ANY value for that field will suffice (for example: "device-token: abc123;").

You may view the result by using the following command in terminal:

curl -X GET --header 'Accept: application/json' --header 'accept-language: en' --header 'device-token: abc123' --header 'client-name: android' 'https://api.kamcord.com/v1/feed/set/featuredShots?count=20'

The response is a JSON dictionary where the value of **response => group of cards** is an array of dictionaries. Each dictionary contains the information for one card on Kamcord called **shotCardData**. The keys you will care about are:

response => group => card => shotCardData:
- **heartCount** - number of hearts.
- **shotThumbnail** The URL of the thumbnail image.
- **play => mp4** - video link

The feed information and thumbnails should be loaded on app start. Please use best UI practices when building this videos view (i.e. the app should feel responsive at all times, etc.).

Bonus:

In our sample request, we ask for 20 videos back from the server. Kamcord has tens of thousands of videos available. Therefore, as a **bonus** we'll be adding pagination for when the user can not find a shot they like from the ones fetched.

response:
- **feedId** - The value of this of this key is used to fetch the feed of videos using the Feed API
- **nextPage** - The value of this of this key is used to fetch the next list of videos. For example, if the value is "40.FEATURED_SHOTS.subfeed_featured_shots.40.40", the REST API URL Example will be:

curl -X GET --header 'Accept: application/json' --header 'accept-language: en' --header 'device-token: abc123' --header 'client-name: android'
'https://api.kamcord.com/v1/feed/ZmVlZElkPWZlZWRfZmVhdHVyZWRfc2hvdCZ1c2VySWQmdG9waWNJZCZzdHJlYW1TZXNzaW9uSWQmbGFuZ3VhZ2VDb2Rl?count=20&page=40.FEATURED_SHOTS.subfeed_featured_shots.40.40'

Note: you are now calling the `feed` endpoint rather than `feed/set`

What we're looking for:
- How well you follow the design spec
- How you architect your code
- How consistent and clean the code is
- How the overall app performs

This exercise should take between 2-3 hours. **Please refrain from using third party frameworks. It is fine to look things up online, but if you copy large blocks of code or entire classes, be sure to cite any sources.** This is an opportunity to show off your Android skills and we'd hate for other libraries to steal your spotlight!

Submission:

When you are finished, zip up the Android project and send it to us - or use dropbox, google drive, etc (no public GitHub) and send us the link for review.