Coding Challenge - iOS

2022

Context

A common pattern for a modern, consumer facing native mobile app interacts with a RESTful backend.
Let's build a GIF Browser, which talks to giphy's /trending endpoint and presents the results in a nice grid layout of your choice.

The app should consist of a simple navigation-based animated gif browser and gif detail view. Please create a new app on giphy.com (https://developers.giphy.com/dashboard/?create=true). You will need the generated key to establish a connection to their API from your app. Don't worry it's free and the rate limit is set to 10k requests per day – enough for testing ;)

You can check the **response format** here https://developers.giphy.com/explorer/

Resource: GIPHY Public API

Endpoint: Trending

Alternatively, curl https://api.giphy.com/v1/gifs/trending?api_key=YOUR_API_KEY&limit=25

On launch, your app should then fetch the first 20 pages (with a 25 items/page limit) of gifs from giphy's/trending endpoint in an efficient and performant manner. You can pick any layout of your choice to display the results back to the user. A good cell size might be e.g. 44×44px. When the user taps on a single gif in the grid, it should lead them into a full screen representation of that gif.

Challenge

Required

1. Build a simple iOS app that uses standard native frameworks to provide a gif browser and detail view.
2. Ensure that your scrolling performance does not drop under 60fps on a 64-bit architecture based device.
3. Focus on a good architecture, performance and test coverage.
4. You can use any third-party library of your choice for the gif rendering layer.
5. Please create a private git repository and share it as a zip file with us. You can respond to the email address from which you received the challenge.
6. Please make sure your project compiles and is set up properly.

Stretch (Optional)

1. Implement your own code that handles gif rendering.
2. Apply some nice animations to your gif browser layout on device rotation.
3. Support an offline mode, which stores the gifs on disk, so you can enjoy all fetched gifs while there is no network connection available.

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