INFILECT : Frontend Engineer Assignment

In this assignment, you are going to build a full-fledged and standalone website to serve photos and display the photos in a certain format on different web pages.

We will prefer you if you use Ionic, or AngularJS, or ReactJS as your choice of framework. Note that the use of one of the frontend frameworks such as the ones mentioned above is a must. For CSS, use of CSS libraries such as Bootstrap, or Bulma, or flexbox is advised.

You are about to build an end-to-end version of the flickr website. While developing please pay attention to asynchronous calls, page load time, page designs on different devices etc. Please pay attention to bugs/errors during development and deployment. Include deployment scripts for us to run your solution quickly.

Problem Statement: develop a front-end web app that has the three screens/routes defined below

/groups/ -- shows the list of groups searched by user (study Flickr to understand more about groups)
/gallery/ -- shows a gallery of photos
/overview/ -- root path will show overview charts

Screen 1: /groups/

This page will have a search box. As you start typing, the search box should display search recommendations of groups as user types. You will also display group results (just like flickr.com/groups/) as the result page (i.e. the result page will contain a gallery of cards where each card specifies a group info). Each group card will contain its name, avatar and some images of that group and some other information that you may like to show. Furthermore, we want you to design this page such that you also show a single chart on the same page about the photos count of each groups that you get in response of the search query. Note that this is not present as part of Flickr website. Furthermore, a click on a group card should take the user to /gallery/.

API test link: https://www.flickr.com/services/api/explore/flickr.groups.search

Screen 2: /gallery/

An infinite scrolling photo gallery grid view in a staggered grid view fashion. Use Flickr Group API to get a collection of photos and the Flickr Photo Info API to get details of the photos to be displayed. You need to show photo, title, short description, owner of the photo, number of

comments, number of views, and date uploaded. Use page size as 20 and call subsequent pages using the page number as input to the API. Create an adaptive layout that takes care of the orientation & dimensions of the individual photos. On photo click, it should take the user to /overview/ page.

API test link: https://www.flickr.com/services/api/explore/flickr.groups.pools.getPhotos

Screen 3: /overview/

Show a pie chart of the number of likes and another pie chart showing the number comments for the photos in the group you decided to display. Note: Take the top 10 photos in a group and combine the likes/comments of the rest of the photos into “other”. Hence, your pie chart needs to have have totally 11 divisions.

You will get bonus points if you:

1. use lazy loading for images.
2. use caching of views
3. time your calls appropriately so that you don’t end up making unnecessary calls when user is typing a query in the search box