Flickrly Documentation

Installing

1. Extract the Zip file and run the following command

```
npm run start
```

Libraries Used

Libraries

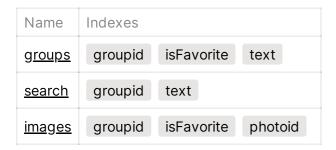| Name	Purpose
Redux Saga	Redux Middleware library
Axios	For making HTTP requests
Bootstrap	UI Library
Dexiejs	Wrapper for IndexedDB
Faker	Generating fake data for Testing components
Font Awesome	UI Library for Icons
Lodash	For data manipulations and generation
Moment	Date manipulation
react-bottom-scroll-listener	Listening for scroll bottom reach events
React-css-loaders	Css Loaders
React-masonry-component	To form Staggered views of photos
React-medium-image-zoom	Component to zoom images
Reaviz	Graphs
Recharts, Reaviz	Graphs
Storybook	Test individual Components in isolation
Untitled	

Storybook

To test components in isolation i've used Storybook. To run Storybook, use the following command

```
npm run storybook
```

Caching Mechanism

For the purpose of caching data. I've use IndexedDB . I've used a library called Dexie.js to read and write to IndexedDB. The following are the tables in indexedDB along with their indexes.

Tables

Name	Indexes		
groups	groupid	isFavorite	text
search	groupid	text	
images	groupid	isFavorite	photoid

Implemented a middleware to check if data is present in the cache. If the data is not present, a network call is made to fetch the data and is immediately stored in IndexedDB for subsequent calls.

Middleware

Location: ('src/middleware/middleware.js')

Middleware

Name	Purpose
Search Group Cache Check	To check and get any recommendations corresponding to the current search query from the cache (IndexedDB)
Get Groups Cache Check	To check and get any groups for the corresponding search query from the cache
Get Images for Group Check Cache	To check and get any images corresponding to the selected group from the cache

Redux

Actions

Actions

Name	Purpose
Search Groups	Action for recommendation of groups with a given query in the search box
Get Groups	Action to get groups for a given search query.
Get Images for Group	Action to fetch the images of a group when a certain group is selected
Load More Groups	Action to load more groups when the user reaches the end of the page
Load More Images	Action to load more images when the user reaches the end of the page
Make group favorite	Action to make a particular group favorite
Remove Group Favorite	Action to remove a particular group from favorites
Make image favorite	Action to make a particular image favorite
Remove Image Favorite	Action to remove a particular image from favorites

Name	Purpose
Select Group	Action to select a particular group to load its images

Sagas

Sagas

Name	Purpose
Get Groups	To get the groups for a search query
Search Groups	To get recommendations for a search query
Get Images for Group	To get images for a selected group
Load More Groups	To load more groups when the user reaches the bottom of the page
Load More Images	To load more images when the user reaches the bottom of the page

Feature Additions from previous version

- Make groups favorite

- Make Photos favorite

- Favorites section on top right corner

- Lazy Loading

- Zoom Images

- Staggered View