Social Searcher 105 Application

1. Project Name: SocialSearcher

2. About Project

- a. You need to open 'SocialSearcher.xcworkspace' file to complile and run the application
- b. All open source projects are imported using 'cocoa pods' commands.
- c. I created git repository form the very first time I started write the application
- d. I have own coding convention and style. This project is follows my coding convention and style. I manage a document that describing those coding convention and style at the github (https://github.com/op1000/ CodingStyleGuide). Although this document is written in Korean, I will prepare English version later soon.
- e. This project uses prefix 'NC' on all classes name which is followed from my initial name 'NCJung'.
- f. I used new tech-knowledges introduced at WWDC 2015 such as StackView using autolayout in storyboard, UI automation using xCode not instrument.
- g. Some features are not supported under iOS 9.0. Therefore I set the target deploy setting to iOS 9.0. So this project produces compile error on under iOS9.0.
- h. By using autolayout feature I can manage all iOS mobile devices to fit adequately, including portrait mode and landscape mode.
- i. Memory warning detecting and adequate codes is also implemented at all didReceiveMemoryWarning function.

3. Model Classes

- a. NCImageCachingManager: Image caching class that saves image data to mobile disk.
- b. NCURLManager: Manages URL manipulation, create/delete folders.
- c. NCYoutubeDataManager: Communicate with Youtube API and save results to NSDictionary. Uses delegate to communicate with user classes like UI.
- d. NCYoutubeDataContainer: Saves Youtube API search results. This class is Singleton class
- e. NCUtilManager: Aggregated simple functions as static.

4. Youtube API calls

- a. Recommended channel list
 - i. Calls https://www.googleapis.com/youtube/v3/guideCategories: fetches 'ChannelID' only with the call.
 - ii. Then call https://www.googleapis.com/youtube/v3/playlists: fetches channel list from the results. For fetching next page, I use 'nextPageToken' field. The 'nextPageToken' field value stored in NSDictionary defined at NCYoutubeDataContainer class.

b. Video list

- Calls https://www.googleapis.com/youtube/v3/playlists: fetches channel's video list. For fetching next page, I use 'nextPageToken' field. The 'nextPageToken' field value stored in NSDictionary defined at NCYoutubeDataContainer class.
- ii. Each cell calls https://www.googleapis.com/youtube/v3/videos: fetches duration info from the result.

c. Youtube search

i. Calls https://www.googleapis.com/youtube/v3/search: fetches searched list from the results.

5. Unit testing classes

a. NCYoutubeDataManagerTests: Tests NCYoutubeDataManager

- D. INCMAINVIEWCONTROHER LESTS: LESTS main UI, landscape, portrait, play video. Lnis UI test mechanism is pretty new and also experimental.
- c. NCSearchViewControlerTests: Tests search UI, landscape, portrait, play video. This UI test mechanism is pretty new and also experimental.
- d. NCVideoListViewControllerTests: Tests video list UI, landscape, portrait, play video. This UI test mechanism is pretty new and also experimental.

6. UI flow

a. You can check UI flow at 'Main.storyboard'.

