

# Capstone, Stage 1



## Sumario

Capstone, Stage 1.....	1
Description.....	2
Intended User.....	2
Features.....	2
User Interface Mocks.....	3
Screen 1.....	3
Screen 2.....	3
Screen 3.....	4
Screen 4.....	4
Screen 5.....	4
Key Considerations.....	5
How will your app handle data persistence?.....	5
Describe any edge or corner cases in the UX.....	5
Describe any libraries you'll be using and share your reasoning for including them.....	5
Describe how you will implement Google Play Services or other external services.....	5
Next Steps: Required Tasks.....	6
Task 1: Project Setup.....	6
Task 2: Implement UI for Each Activity and Fragment.....	6
Task 3: Implement authentication.....	6
Task 4: Implement google custom search.....	6
Task 5: Implement firebase realtime database.....	7
Task 6: Implement menu and settings.....	7
Task 7: Add material design features.....	7

**GitHub Username:** [kmora3005](#)

# Images viewer

## Description

The app searches image in a custom search google and the user can select them for creating your own album. I try to solve the issue it's difficult to store images in the device from a web browser to create a gallery about a specific topic. An app can do it faster.

## Intended User

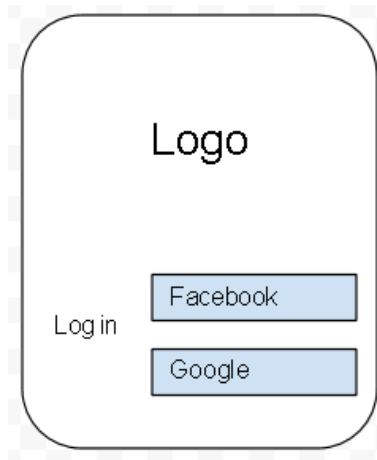
I think there is not specific user for this app. This is for someone who wants to create your albums with photos found in the web.

## Features

- Searches pictures by words.
- Create and save albums with image chosen.
- Shows pictures in full screen viewer and it changes each certain time.

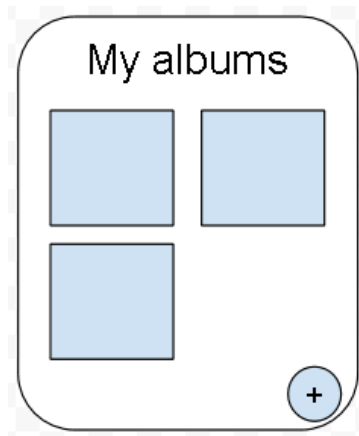
# User Interface Mocks

## Screen 1



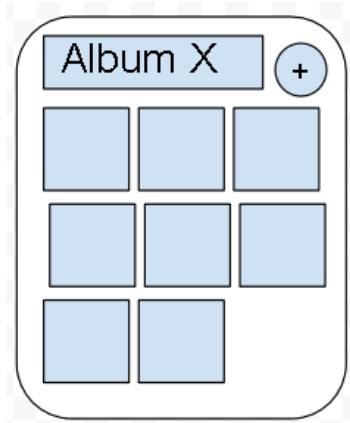
It's only a logo and a login with google or facebook.

## Screen 2



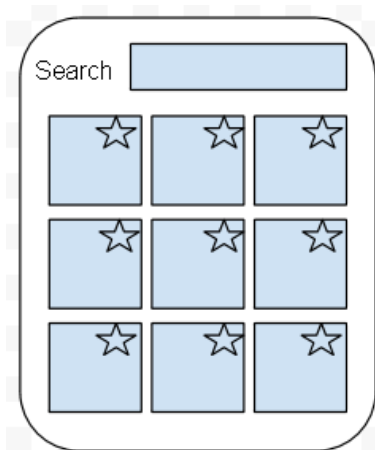
This is the main screen. List albums created by user. It has option to add new one.

### Screen 3



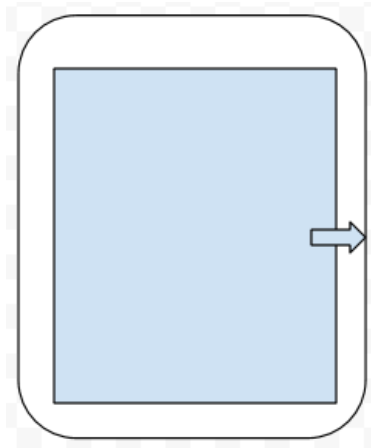
List photos in album selected. It has option to add new pictures and the user can change the album name. This is the same screen for album creation, when there is no image shows a text “No images to display”.

### Screen 4



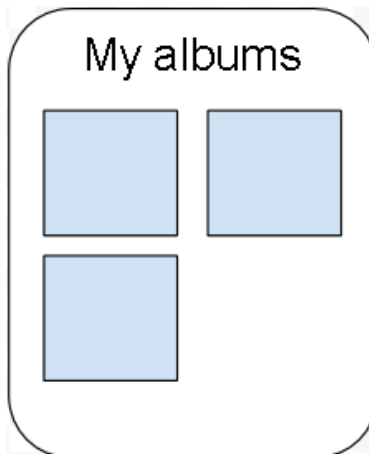
The user can search by words photos here. Each image has an icon to select it.

## Screen 5



This screen is shown when the user selects a picture in an album. This is full screen and it can see the next image automatically (configurable time) or doing swipe.

## Screen 6



It is a widget showing the albums of the user. When one of them is pressed open the app showing the content of the album selected.

# Key Considerations

**How will your app handle data persistence?**

The app will use firebase realtime database for data persistence.

**Describe any edge or corner cases in the UX.**

When the user searches something in the screen, only a few images will be loaded (maybe 20) and when reach the bottom will be loaded more.

If the user does swipe very fast multiple times without finish the transition for the next photo, only one swipe will be executed.

**Describe any libraries you'll be using and share your reasoning for including them.**

The app will use Glide to handle the loading and caching of images. It will use google custom search engine for doing search in images. Also, it will use Butterknife for automatically cast the corresponding view in the layout.

**Describe how you will implement Google Play Services or other external services.**

It only will use firebase for authentication and storage data.

.

## Next Steps: Required Tasks

### Task 1: Project Setup

Add libraries to use to gradle file.

Add permissions in manifest file.

Get a firebase account and add configuration in app.

### Task 2: Implement UI for Each Activity and Fragment

Build UI for login activity.

Build UI for list of albums activity.

Build UI for album creation/ list of photos activity.

Build UI for searching new images activity.

Build UI for viewer activity.

### Task 3: Implement authentication

Add log in with facebook using firebase.

Add log in with google account using firebase.

### Task 4: Implement google custom search

Add functionality to search image and show them.

Use AsyncTask to get results in searches.

Handle issue when the search doesn't return results or no internet connection.

## **Task 5: Implement firebase realtime database**

Save images path and album name.

Get albums and photos from firebase.

Show pictures using Glide.

Handle issue when the request fails or no internet connection.

## **Task 6: Implement menu and settings**

Add menu to open list of albums activity directly.

Add settings to adjust time for automatically change pictures in viewer.

## **Task 7: Implement a widget**

Build UI for list of albums in widget.

Add functionality to show it and refresh it in home screen.

## **Task 8: Add material design features**

Adjust layouts to look very well in tablet and TV, portrait and landscape.

Add color theme, elevation (shadows) and floating action buttons.