

PhotoCube

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Summary:

PhotoCube is an authoring Android application that utilizes photo searching and filtering. It gives the user an opportunity to edit photos they either searched from the Web through Flickr or photos they took using their phone camera. In addition, the photos the user searched or took can be displayed on a slideshow. As the name of this application pertains, the photos can be displayed on a Cube object customized by the user itself. PhotoCube will allow the user to search public photos from Flickr by using tags of their choice or also by accessing their own public photos from their own account by inputting their Flickr user ID. PhotoCube also allow the user to input someone else's user ID in case the user wants to access someone else's public photos in Flickr. PhotoCube also gives the user the opportunity to filter their search by dates, in cases where the user would want to search photos recently or from a long time ago. In taking a photo through PhotoCube by using the phone camera, PhotoCube provides the use of the phone's front and back camera without the need of exiting the application. The user can then edit (filter) the photos that they search in cases that they're not good with the photo as it is. When done collecting a series of photos, the user can do a photo slideshow of photos of their choice and place it on each faces of the cube that they can manipulate by screen touching. The objective of PhotoCube is to let the user be artistic and not limit their level of creativity even though they are interacting to a modern kind of software application.

Use Cases / User Stories:

- Alice wants to make a photo slideshow of the photos she'll be taking soon during her vacation days. It's been her hobby as she likes keeping good memories from places she'd been to and showing it to her closer friends and relatives. However, due to the times of always making the same kind of photo slideshow from the same software she'd been using for a long time too, she wondered if she can use another application where it will be a bit more interactive and creative. That way, she won't bore out herself and the rest of the people she'll want to share her photo slideshow too. By using PhotoCube, she was able to overcome her predicament as it solves her issue of having an application that actually gives her more freedom as the user to choose the right photos and customize her photo slideshow.
- Frances went on a school field trip with her younger sister, as an acting guardian. While she enjoys the scenery and would've like to take some photos using her phone, her sister is feeling bored during the bus ride and been nagging about wanting to borrow her phone to play. Thinking wisely, she decided to let her sister use her phone by making her play around with the PhotoCube application. That way she knows that her sister would be taking photos of the sceneries while, at the same time, playing around with the application itself. That solves her problem with taking photos of the scenery and her sister's bored situation.

Input Type:

- Tags – user will have to input tags to search public photos
- User ID – user will have to input their or someone's user ID number to access a specific user's public photos.
- Photos – In creating the PhotoCube slideshow, the user will have to input photos they searched, taken from the camera, or edited.

Output Type:

- Photos searched from Flickr, taken from camera, and/or edited (filtered).
- A PhotoCube – cube with photos.

Platform:

- Android Device
 - For maximum feature use android device that features the use of front and back camera.

Libraries

- APWidgets
 - Textbox
 - Checkbox
 - Radio button
- Ketai
 - Gestures and Motion event
 - Camera
- Android
 - Shared Preferences

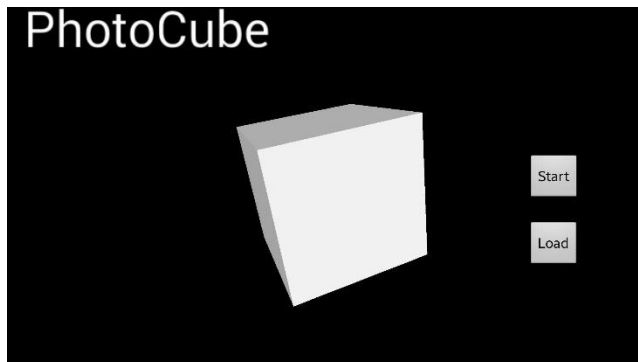
User Interface Specifications:

- User shall be able to start a new photo cube or load an already saved PhotoCube.
- User shall be able to save a current photo cube he/she is making.
- User shall be able to use phone's camera without exiting the application.
- User shall be able to toggle between front and back camera.
- User shall be able to use Flickr search by inputting tags or user ID.
- User shall be able to add more than one tag in one input by inputting '+' in between the tags.
- User shall be able to filter his/her photo search by dates and by order.
- User shall input the right format as guide displayed for proper results.
- User shall be able to add the photos he/she searched to a list of photos to use in making the photo cube.
- Camera photos taken shall be automatically added in the photo list.
- User shall be able to overview all the photos he/she searched.
- User shall be able to edit the photos by filtering.

- User shall be able to assign photos of his/her choice to a certain face of a cube of their choice.
- User shall be able to see a preview cube of the cube they're currently customizing.
- User shall be able to use Ketai's gesture and motion event functionality.

Basic User Interface:

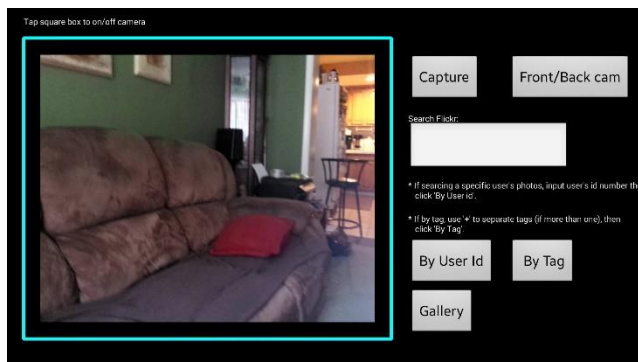
Mode 0 – Start and Load Page



Start button – leads to mode 2 for Photo search and camera use.

Load button – leads to mode 7 for loading saved cube.

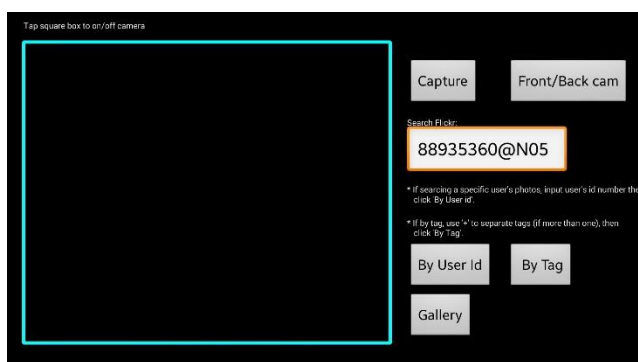
Mode 1 – Search and Camera use



Tapping the square box will activate the camera.

Capture Button – Takes the photo from the screen view.

Front/Back Button – toggle front and back camera.



Textbox – user can input user ID or tags

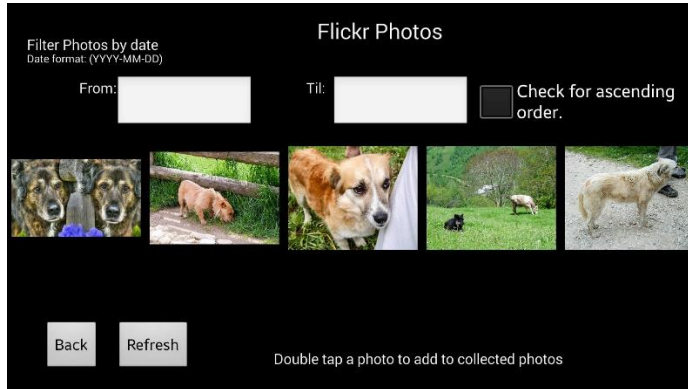
By User id button – search inputted user ID photos

By Tag button – search inputted tags.

Gallery (not implemented).

Mode 2 – Gallery – A proposed featured that hasn't been implemented or finalized because of unresolved errors by the developer. Clicking the gallery button from Mode 1 will bring the user to Mode 2 displaying the gallery photos already saved on their phone.

Mode 3 – Flickr search result – displays the searched photos either by tags or by user ID



From Textbox – input date the user wants to search since.

Til Textbox – input date the user wants to search til.

Back Button – brings back to mode 2.

Refresh Button – refresh the list.

Checkbox – check for ascending/descending order

Flick motion going to left or right to see other results.

Double tap a photo to add to the overview list.

Mode 4 – Overview list



Add more button – will bring back to Mode 1.

Assign faces – will bring to mode 5.

Long press a photo will bring to mode 8.

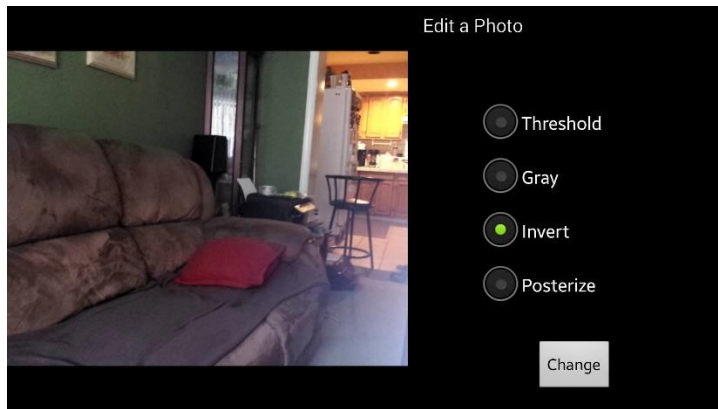
Mode 5 – Assign faces (from clicking the assign faces from mode 4)



Face buttons – clicking will bring the user back to mode 4 to assign a photo to that selected face.

Save button – saves the cube and brings the user back to mode 0.

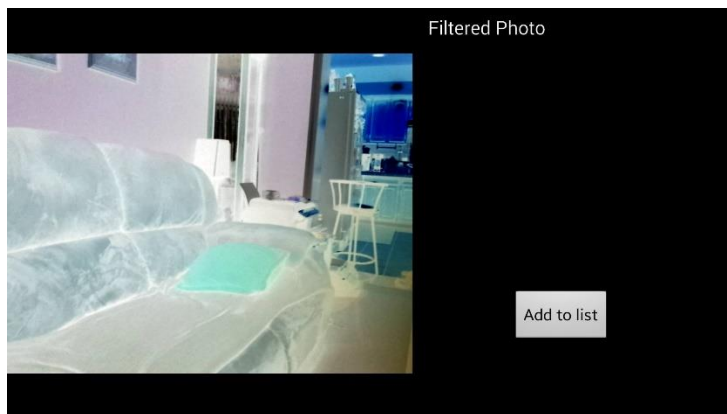
Mode 6 – Photo edit/filtering (from long pressing a photo)



Radio Filters – choosing which one will filter the photo displayed of that choice.

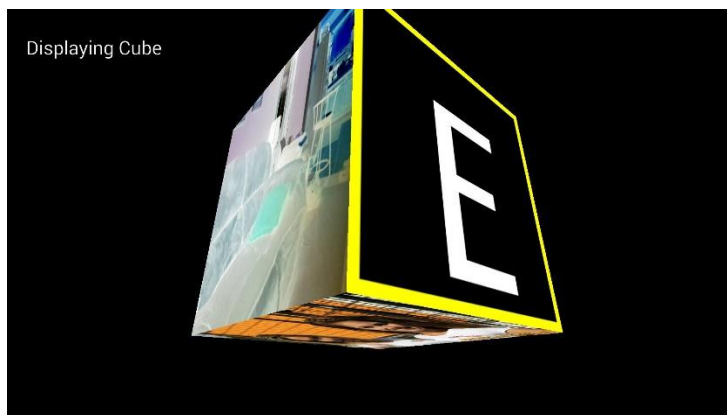
Change button – will bring the user to mode 8.

Mode 8 – Photo edit result



Add to list button – will bring the user back to mode 4 to add the filtered photo to the list.

Mode 7 – Photo cube display



Displays the saved Cube

