

## CECS 475

### Lab Assignment 2

**Due date: Monday, September 26**

**10 points**

Create a Flickr Viewer app that allows users to search for photos on the photo-sharing website Flickr then browse through the result. The app uses an asynchronous method to invoke a Flickr web service. The Flickr Viewer app allows user to search by *tag* for photos that users worldwide have uploaded to Flickr. To access the Flickr web service on your computer, you must obtain your own Flickr API key at

<http://www.flickr.com/services/apps/create/apply>

and use it to replace the words YOUR API KEY HERE inside the program.

You are going to invoke the Flickr web service's method flickr.photos.search. You can learn more about this web-service method's parameters and the format of the URL for invoking the method at

<https://www.flickr.com/services/api/flickr.photos.search.html>

In this program, you specify values for the following parameters:

- **api\_key** (Required)
- **tags**

A comma-delimited list of tags. Photos with one or more of the tags listed will be returned. You can exclude results that match a term by prepending it with a - character.

- **tag\_mode**

Either 'any' for an OR combination of tags, or 'all' for an AND combination. Defaults to 'any' if not specified.

- **per\_page**

Number of photos to return per page. If this argument is omitted, it defaults to 100. The maximum allowed value is 500.

- **privacy\_filter** (Optional)

Return photos only matching a certain privacy level. This only applies when making an authenticated call to view photos you own. Use value 1.

The method flickr.photos.search returns the standard photo list xml:

```
<photos page="2" pages="89" perpage="10" total="881">
<photo id="2636" owner="47058503995@N01"
secret="a123456" server="2" title="test_04"
ispublic="1" isfriend="0" isfamily="0" />
<photo id="2635" owner="47058503995@N01"
secret="b123456" server="2" title="test_03"
ispublic="0" isfriend="1" isfamily="1" />
<photo id="2633" owner="47058503995@N01"
secret="c123456" server="2" title="test_01"
ispublic="1" isfriend="0" isfamily="0" />
<photo id="2610" owner="12037949754@N01"
secret="d123456" server="2" title="00_tall"
ispublic="1" isfriend="0" isfamily="0" />
</photos>
```

## REST Request Format

REST is the simplest request format to use - it's a simple HTTP GET or POST action.

The REST Endpoint URL is <https://api.flickr.com/services/rest/>

To request the flickr.test.echo service, invoke like this:

<https://api.flickr.com/services/rest/?method=flickr.test.echo&name=value>

You download the attached zip file to the lab assignment. The zip file has a partial solution of the lab assignment. You need to fill in blanks the code so the program can run correctly.

## Grading

### Submission:

1. Submit the project in zip file (extension zip)
2. A pdf document that contains the content of all coding files and highlight the code you added to the file.
3. A zoom link or YouTube that demonstrate the execution of the program (less than 3 minutes). Write the link on the comment box.
4. The completion of each team member in the comment box

### Note:

The program is running correctly and met all the requirements is 10 points, but

Incomplete item 1 (-10 points)

Incomplete item 2 (-3 points)

Incomplete item 3 (-5 points)