Desktop app for photos

We want to design a desktop app for viewing photos that are uploaded on photos hosting portal like [Flickr.com](https://www.flickr.com/) using which users can view and search for photos from within the app.

Requirements

* User should be able to search by keywords
* User should be able to select any of the listed photos and zoom-in or zoom-out from it
* If there are multiple pages of photos listed, user should be able to scroll through the pages
* User should be able to re-search with any other keywords after the results are displayed for previous search
* User should be able to navigate back to previous search results page

Expectations

* We are interested in both low level and high level designs of the application
* Class diagrams
* Component interaction diagram if the design involves multiple components
* The code should be demoable. Application should be running.
* Unit tests
* Bonus points if the design is extensible

Resources

Flickr website – <https://www.flickr.com/>

APIs references – <https://www.flickr.com/services/api/>

**Note:** As this is for a desktop position, we would like to have the candidate code the desktop app in C# or C++ if possible. But other languages are also allowed.

**Note:** The APIs of flickr might need an API key to be created. We request the candidate to sign up for a free account at <https://www.flickr.com/services/api/misc.api_keys.html> and use the free account only.