**Image collection expander**

State of the art

Image collection expander is an application which allows users to manage their image collections and increase them based on different criterias. An user can upload their photos and add some information, like tags, content, context and location. Based on this data, the application can classify them and find some related new media files. The user will have the possibility to add the resulted images to his own collection or to share them on other platforms.

**What did the others?**

Instagram

Instagram is an online website and also mobile application used for photo-sharing, video-sharing and social networking. The users can upload images and videos, set their privacy, classify them with tags, see the uploads of other users or for a certain tag and they also can chat to each other. Instagram was created by Kevin System and Mike Krieger, launched in 2010 as a free mobile application and it gained popularity very fast, reaching 100 million active users in about one year.

Like “Image collection expander”, Instagram is an images based application which gives the opportunity to share and expand image collections, classify and search images by certain characteristics.

**Resources and tools available**

Flickr API

Flickr is an website used for organizing, uploading, editing and sharing images and videos and it was created by Ludicorp in 2004 and acquired by Yahoo in 2005. It is like an online community, where you can find images based on tags. The application hosts more than 6 billion media resources and over 87 million registered members, who upload more than 3.5 million new photos daily.

It provides an API that lets users to get data from the website, in order to access and use it in other applications. The API has several endpoints, being well structured and easy to use. Therefore, “Image collection expander” will use “**flickr.photos.search**” as main endpoint, for searching related images by tags, by the content type (photos or screenshots), by their context (indoor or outdoor) or by the time the media resources were taken. Besides this endpoint, the application will use others endpoints like “**flickr.photos.geo.photosForLocation**”, which will allow finding photos by geographical coordinates, specifying the latitude and the longitude, but also an accuracy.

**Relevant links**

* <https://www.flickr.com/services/api/>
* <https://www.flickr.com/about>
* https://www.instagram.com/about/us/