# Requirements analysis – Image collection expander

**What the application will do:** “Image collection expander” will be an application which will allow users to manage their image collections and increase them based on different criteria. A user will be able to upload photos and add some information, like tags, content, context and location. Based on this data, the application will be able to 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. Also, if an user will add an image to his collection, and that image will fit to another user’s collection, that user will be notified about that.

**What kind of users will use this app:**

* persons who like to save interesting images found on the web or from they’re own phone and to have them organized well, in collections
* persons who want to expand they’re image collections with other similar images
* persons who want to share images from collections on a social-media platform

**Some technical things** about “Image collection expander”: this application will have a **back-end part**, created either in Java or .NET, as main frameworks and **a front-end part** - an IOS application which will communicate with the back-end by making HTTP requests to the REST API offered by the service and receiving HTTP message responses. Json data format will be used as data format send in the HTTP response body. The back-end part will use responses from external API’s like Flickr API or Getty Images API to expand an image collection of a certain user.

The major components of “Image collection expander” :

* The authentication component: this module will handle the creation of new accounts (register) and the logging (login) of a user into the application and things like changing an account detail like password or email.
* The component where the user can manage it’s image collections: add a collection, remove a collection, edit collection details: name- mandatory detail, creation date – mandatory detail, the recurent tags of the images in the collection – optional detail, the main colors used in the images of the collection –optional detail.
* The component where the user can manage a certain image collection, where it can expand it or delete some images. The user can expand a collection by a chosen number of images, it can also add other filters to get new similar images, filters like: description, picture size, sort order, age of people or number of people – if it will return images containing people, location-where the picture was taken.
* The component where the user is notified that another user uploaded a similar photo with other photos it has in it’s collection/collections.
* The component where the user can share an image on Facebook.