

Project title:

Recommendation System – Module 3

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Requirements Analysis

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1. Description

Our part of the application consists of filtering the information users search on Flickr, according to their profile and interests.

2. Fields of work

We will describe here the uses cases related to search filtering, along with its role in our application.

3. Stakeholders

Application: It filters the data from the Flickr API according to the user's profile and interests. The data is then sent to the module 4 where it can be processed and the app should make recommendations relevant to the user's interests.

Api Providers: They offer the services necessary for the application to index the data collected by the other modules, in order to later filter it efficiently.

4. Actors & Objectives

Application: Its main purpose is to filter the data that will be used later for make recommendations.

Api Providers: Its objective is to allow the application to filter the user's searches in an easier way.

5. Use cases

5.1 Retrieving information from the data base

5.1.1 Objective/Context

The application retrieves data from the database:

- user profile;
- user preferences;
- short time preferences;
- long time preferences.

5.1.2 Scenario/Steps

1. The application connects to the database.
2. The application selects from the database the requested information about user.

5.1.3 Extensions

If the connection is lost the application will try to reestablish the connection and extract the data.

5.2 Indexing and representing the data

5.2.1 Objective/Context

The application uses the data retrieved from the database.

The application organizes the data in order to ease the search process.

5.2.2 Scenario/Steps

1. We choose a certain format for representing the data.
2. The text is separated into words, eliminating the empty ones.
3. According to the user's profile, the application selects certain words that must appear in the search results.
4. The application also sets certain colors and shapes that must be contained by the images.

5.2.3 Extensions

If the connection is lost, then the application will show a corresponding error message.

5.3 Saving the data to a database

5.3.1 Objective/Context

The received data has been parsed.

5.3.2 Scenario/Steps

1. A connection is formed with the database.
2. The data is then sent to the database for storing.

5.3.3 Extensions

If the connection is lost the application will try to reestablish the connection and resend the parsed data.