Project title: Recommendation System - Module 1
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Requirements Analysis

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1. Description

The present project consists of an application meant to collect various information from different social networks (such as Flickr, Twitter and so on).

The user will log on his profile and afterwards the application will extract the necessary data based on his activity, likes, tagged photos and others.

2. Fields of work

Described here are some possible use cases that one user may encounter using the present application. Use cases will show how the user connects to a specific social network through the application as well the information gathered based on his profile.

3. Stakeholders

Application: It collects data from social networks where the user is logged in. The data is then sent to the other modules where it can be processed.

API provider: It offers the services necessary for the application to collect the user generated data on the respective social network/networks

4. Actors and Objectives

Application: Its main purpose is to assemble various data that will be processed later on.

API provider: Its objective is to allow the application to gather the required information via provider's services.

5. Use Cases

5.1 Requesting data from social network

5.1.1 Objective/Context

The user is logged in to the social network.

The application sends requests to the API offered to the social network to retrieve user data.

5.1.2 Scenario/Steps

1. The application creates the HTTP Request
2. The request is then sent to the respective API

5.1.3 Extensions

If the connection to the API is lost, then the application will show a corresponding error message and depending on the scenario will try to resend the request.

5.2 Receiving and processing request responses

5.2.1 Objective/Context

The API responded to our request.

The application must parse the data.

5.2.2 Scenario/Steps

1. The JSON response is parsed
2. The parsed data is then used to populate the model of our application

5.2.3 Extensions

1. If the request is denied and the application will print the error message sent by the API.
2. 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.