

Extracting data through Meetup API

Technical specifications document

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Project Overview

The goal of this project is to develop a software application capable to extract data from Meetup API, store them into an online database and make them available to third party applications, such as desktop software. The application should:

1. allow the user to formulate specific search queries
2. create the corresponding API requests
3. fetch the results and store them in an online database
4. periodically (e.g. once a week) update the database with fresh data

The application must respect the Meetup API ToS. The retrieved data will be stored in a FIPPA compliant database server, possibly in a MySQL database or equivalent technology. We do not need a front-end interface, a bare-bones system for indicating the groups to track is sufficient.

Data specifications

The application should be capable to retrieve the following data:

1. Groups

The app should provide the user with a way to indicate which groups to analyze. For the selected groups, the app should be capable to extract the following information:

1. Group ID
2. Name of the group
3. Category
4. Meta category
5. City
6. Organizer
7. Date of creation
8. Description
9. Latitude and Longitude
10. Link to meetup page

11. # members
12. What the group calls its members
13. Members bio

Moreover, the app should extract additional information described below.

[Link to documentation](#)

2. Past events

The application should download data about all the past events held by a selected group. For each event, the app should retrieve and store:

1. Event ID
2. Name of the event
3. Description
4. # Participants
5. Event date
6. Event time
7. Individual participants
8. Venue
9. Location
10. Link to meetup page

[Link to documentation](#)

3. Upcoming events

The application should be capable to automatically retrieve and store data about upcoming events for selected groups. As for past events, the app should extract, for each event, the following information:

1. Event ID
2. Name of the event
3. Description
4. # Participants
5. Event date
6. Event time
7. Individual participants
8. Venue
9. Location
10. Link to meetup page

[Link to documentation](#)

4. Group Members

For each group, the application should retrieve and store the profiles of each member.

1. Member ID
2. Name
3. Bio
4. City
5. Country
6. Gender
7. Birthday
8. Link to Meetup profile page

[Link to documentation](#)

5. Events RSVPs

The app should retrieve the list of users ID who RSVP'd an event. In this manner, it will be possible to match the users ID with the profile retrieved in "Group Members".