General Fluxx API Information

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What is an API?

An API (Application Programming Interface) is a set of subroutine definitions, communication protocols, and tools for building software[1]. While there are multiple types of APIs, Fluxx uses a web-based API at REST. In essence, this allows an application to communicate with Fluxx.

What is an API used for?

The API has a wide variety of uses, from creating records in Fluxx to Payment integrations with Fluxx. Here are a few examples of what our clients are using the API for:

- Pulling record information
- Payment Integration
- Reporting
- Reporting from Secondary DB (PowerBI, Tableau, etc.)*(additional fees associated)*

What Services does Fluxx offer as part of the API feature/offering?

Fluxx does not have any services for setting up integrations with the API. We do however have a list of Fluxx recommended partners that can help setup integrations.

Fluxx also provides API support. However, the API support is confined to cURL, or Ruby interpolations on macOS. This does not include integration setup.

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[1] en.wikipedia.org/wiki/Application_programming_interface.

API Documentation

The API documentation contains how to generate an access token, parameters that can be included in the API call, accepted HTTP Methods, a few sample API calls, and field information for all accessible classes.

The following criteria must be met for the client to have access to the API documentation:

- The client must be in implementation or already live.
- The client's user who is trying to access the documentation must be an admin.

Once the criteria has been met the user can navigate to the following URL: https://<client site>/api/rest/v2/doc

Here they can learn about parameters, accepted HTTP Methods, how to generate an access token, and see the available classes. When the user clicks on one of the available classes it should display sample API calls, and field information.

Fluxx API Sample Syntax

The Fluxx API samples provided in the API documentation are using cURL.
cURL is a tool for making web requests via the command line.
Clients can use any programming language that is capable of making HTTPS requests.

API Rate Limiting

API Rate Limiting is a way to protect our clients from unexpected spikes in traffic, which could potentially cause performance degradation.

These are the API Rate Limit specifications:

1500 per minute
  '/api/rest/:version_number/:model_type' => 'rest_api#index'
  post '/api/rest/:version_number/:model_type/list' => 'rest_api#index'

180 per minute
  get '/api/rest/:version_number/:model_type/:id' => 'rest_api#get'

60 per minute
  post '/api/rest/:version_number/:model_type' => 'rest_api#create'
  put '/api/rest/:version_number/:model_type/:id' => 'rest_api#update'
  delete '/api/rest/:version_number/:model_type/:id' => 'rest_api#delete'

Commonly Used Tools

There are a lot of tools out that can help or make the API easier to use. Here are a few tools that our clients use:
(not supported by Fluxx)

- ARC (Advanced REST client)
- Postman
- PowerShell