



ETIM
International

The international classification
standard for technical products



Testing the API with VS-Code

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1. Terminology explained

API

API = Application Programming Interface. **API** is the acronym for Application Programming Interface, which is a software intermediary that allows two applications to talk to each other. In the case of ETIM, we would like to allow other applications such as MDM/PIM/ERP/Ecommerce platforms to communicate with our Classification Management Server to directly consult the latest information on the ETIM classification model.

API server

This is the computer where the requests will be sent to, eventually and hopefully responding with a return message (**response**) with the right information.

Swagger Page

This is where you can find a standardized manual on how to let your application interact with the API. Swagger is a set of open-source tools built around the OpenAPI Specification that can help you design, build, document and consume REST APIs. The major Swagger tools include: Swagger Editor – browser-based editor where you can write OpenAPI specs. Swagger UI – renders OpenAPI specs as interactive API documentation. This Swagger page also allows for quick live testing of API calls.

<https://swagger.io/docs/specification/about/>

API Call / API Request

An API call, or API request, is a message sent to a server asking an API to provide a service or information. This message is transferred to an API server via a URL over the (HTTPS)

```
▼ POST https://etimapi.etim-international.com/api/v2/Class/Search
POST /api/v2/Class/Search HTTP/1.1
Content-Type: application/json
Authorization: Bearer eyJhbGciOiJIUzI1NiIsImtpZCI6Ike4M0EyMTZDRTRFCN0
OGF3LWsyehJkU3BDMktwTEdHOCJ9.eyJ0eXkiOiJlZ2Mjg4NjE2NjQsImV4cCI6MTYyODg
UFwSIsImNsawVudF9pZCI6Ikp1cm91b1ZkSG9sc3RUZXN0Q2xpZW50IiwiaWY2xpZW50X
ibmItTk8iXSwianRpIjoibkNEQkVENTY0RURCMj1CQkI4NEIzMjNGN0Q2NTgxNjciLCJ
79AvDHh1EFj5wt7rbhht8pCYnfwFZd2qCqtBUm_ikU57Vyyqd5Nj7YxhRy_FUuuu-a1W0
EYZjEQULWErkVdBBxE4n9IQWgHwwoqZrTCIWBD-TCX7FMahRDUGAoBh541PQdaooR7Q
User-Agent: PostmanRuntime/7.28.3
Accept: */*
Postman-Token: a1cfe6dd-82d6-464f-8255-e1e50197d195
Host: etimapi.etim-international.com
Accept-Encoding: gzip, deflate, br
Connection: keep-alive
Content-Length: 81
```



API Response

Een API Response or simply “response” is exactly what it means: a response from the API server to your request. In plain text a response looks somewhat like this:

▼ Response Headers

Api-Supported-Versions: "2.0"
Content-Length: "103027"
Content-Type: "application/json; charset=utf-8"
Date: "Fri, 13 Aug 2021 13:37:05 GMT"
Server: "Kestrel"

▼ Response Body [🔗](#)

```
{
  "total":10000,"classes":[{"code":"EC002419","version":6,"status":5,"mutationDate":"2020-12-02T08:48:51.177Z","modelling":false},
  {"code":"EC002420","version":4,"status":5,"mutationDate":"2020-12-02T08:48:51.177Z","modelling":false},
  {"code":"EC002420","version":5,"status":5,"mutationDate":"2020-12-02T08:48:51.177Z","modelling":false},
  {"code":"EC002420","version":7,"status":5,"mutationDate":"2020-12-02T08:48:51.177Z","modelling":false},
  {"code":"EC002421","version":4,"status":5,"mutationDate":"2020-12-02T08:48:51.177Z","modelling":false},
  {"code":"EC002422","version":4,"status":5,"mutationDate":"2020-12-02T08:48:51.177Z","modelling":false},
  {"code":"EC002422","version":5,"status":5,"mutationDate":"2020-12-02T08:48:51.177Z","modelling":false},
  {"code":"EC002423","version":4,"status":5,"mutationDate":"2020-12-02T08:48:51.177Z","modelling":false},
  {"code":"EC002424","version":4,"status":5,"mutationDate":"2020-12-02T08:48:51.177Z","modelling":false},
  {"code":"EC002425","version":4,"status":5,"mutationDate":"2020-12-02T08:48:51.177Z","modelling":false},
  {"code":"EC002427","version":4,"status":5,"mutationDate":"2020-12-02T08:48:51.177Z","modelling":false},
  {"code":"EC002429","version":4,"status":5,"mutationDate":"2020-12-02T08:48:51.177Z","modelling":false},
  {"code":"EC002430","version":4,"status":5,"mutationDate":"2020-12-02T08:48:51.177Z","modelling":false},
  {"code":"EC002431","version":4,"status":5,"mutationDate":"2020-12-02T08:48:51.177Z","modelling":false},
  {"code":"EC002431","version":5,"status":5,"mutationDate":"2020-12-02T08:48:51.177Z","modelling":false},
  {"code":"EC002436","version":4,"status":5,"mutationDate":"2020-12-02T08:48:51.177Z","modelling":false}
]}
```

OR if something goes wrong during communication, a set of standardized error messages may be returned as a response. With these responses, which in fact consists of a data object written in the Java Script Object Notation standard (JSON). This Data object can be absorbed into your own application running on your device.

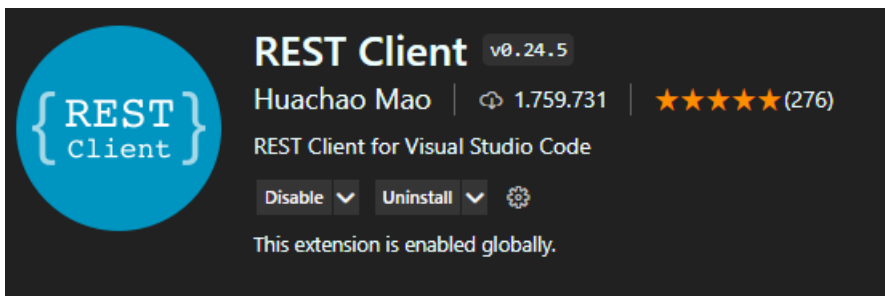
2. Software / tools required to test ETIM API calls

Visual Studio Code

Visual Studio Code is a code editor for programmers.

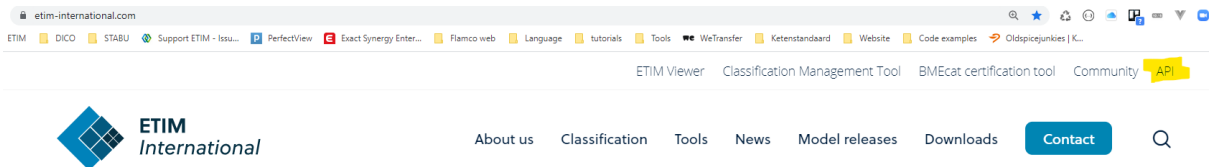
<https://code.visualstudio.com>

[\(free – download here\)](#)

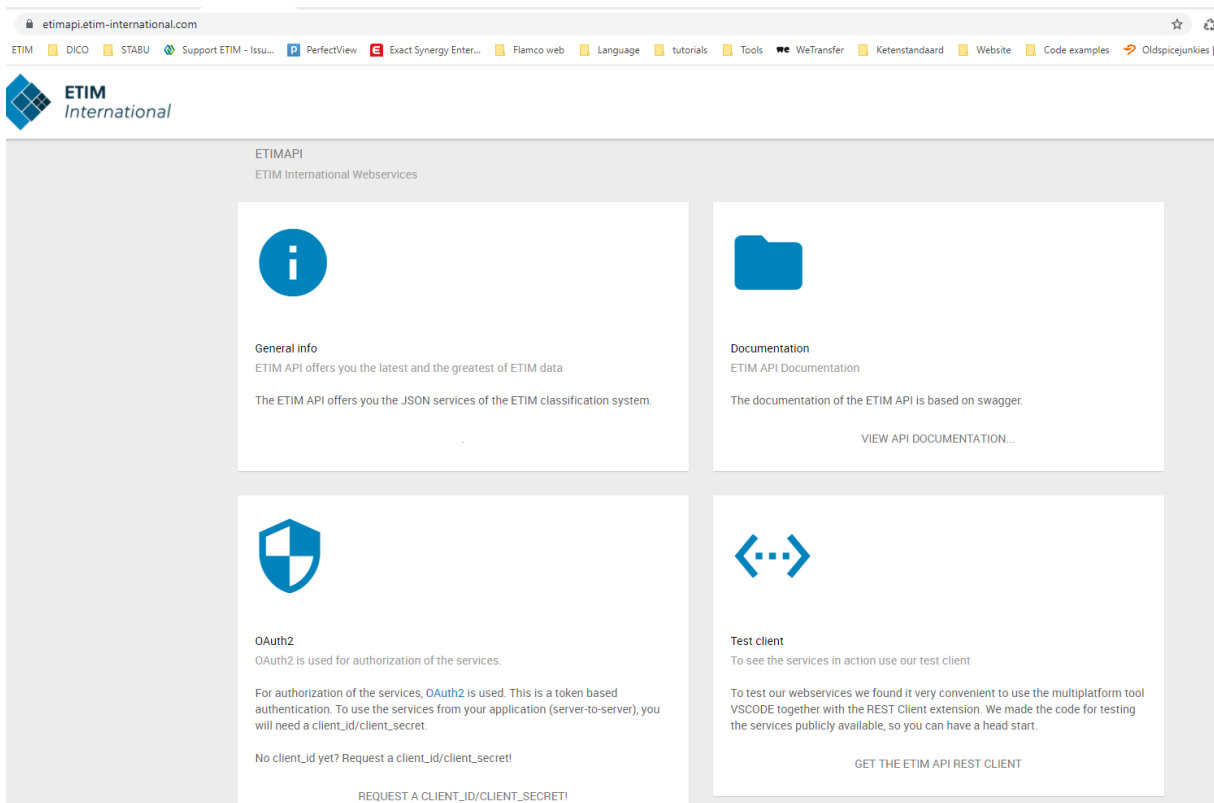


REST Client is a free extension for VS code. It can be installed within VS code.

3. Available documentation, web-resources and test files



In the right top menu you see a link to the ETIM – API page. This page is completely dedicated to the API.



General info

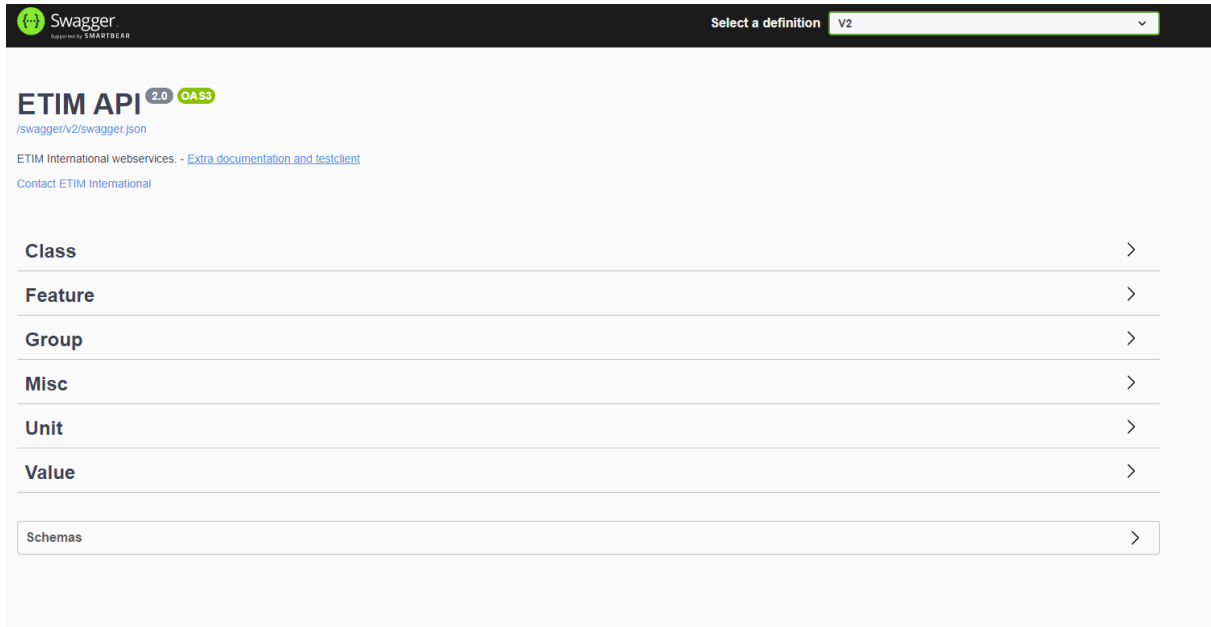
The upper left tile gives you generic info on the API.

OAuth2

On the bottom left tile you can click on a link to request for client credentials. The API can only be accessed if you have such credentials. We will explain how to use these credentials further in this document. When credentials are requested, the Client and Secret (username/password) will be sent to you by mail by one of the staff members of ETIM International. This is not an automated process so this may take some time depending on agenda's. Most of the time we are able to react within 1 hour, maybe even within 15 minutes.

Documentation

The upper right tile gives you the link to the documentation page. This is a so-called Swagger page. Here you can find an overview of all available API-calls, which parameters must or can be included and what responses are to be expected. You can even try out a couple of example calls for testing.



Swagger
Powered by SMARTBEAR

Select a definition v2

ETIM API ^{2.0} ^{OAS3}

/swagger/v2/swagger.json

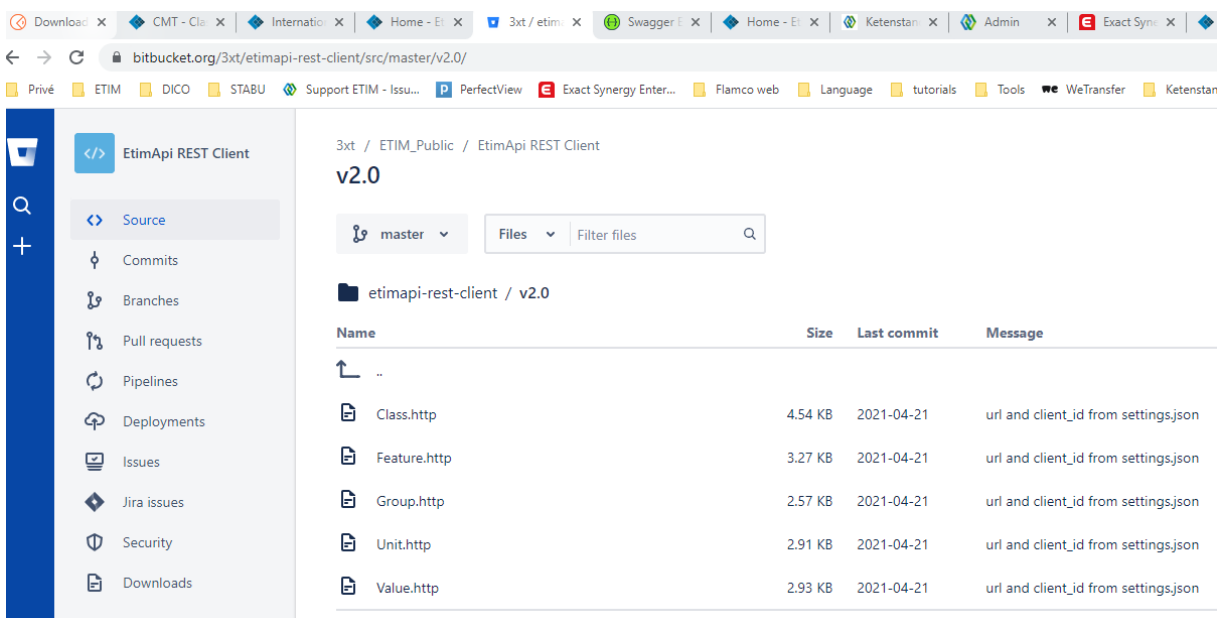
ETIM International webservices. - [Extra documentation and testclient](#)

Contact ETIM International

- Class >
- Feature >
- Group >
- Misc >
- Unit >
- Value >
- Schemas >

On this Swagger page you can also find a link to a Bitbucket page a.k.a. a git-repository where a full set of testing files with pre-written API calls are made available. These you can use to test your set-up in VS code or Postman. You can clone this repository via a git command or you can use the old-fashioned method of downloading the files to a folder.

<https://bitbucket.org/3xt/etimapi-rest-client/src/master/>



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bitbucket.org/3xt/etimapi-rest-client/src/master/v2.0/

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3xt / ETIM_Public / EtimApi REST Client

v2.0

master Files Filter files

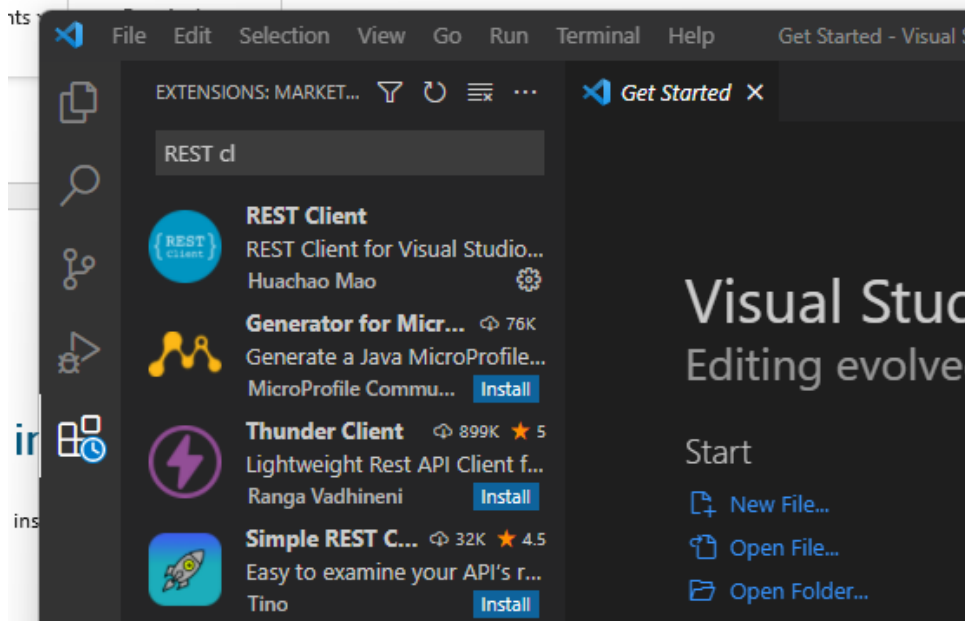
etimapi-rest-client / v2.0

Name	Size	Last commit	Message
..			
Class.http	4.54 KB	2021-04-21	url and client_id from settings.json
Feature.http	3.27 KB	2021-04-21	url and client_id from settings.json
Group.http	2.57 KB	2021-04-21	url and client_id from settings.json
Unit.http	2.91 KB	2021-04-21	url and client_id from settings.json
Value.http	2.93 KB	2021-04-21	url and client_id from settings.json

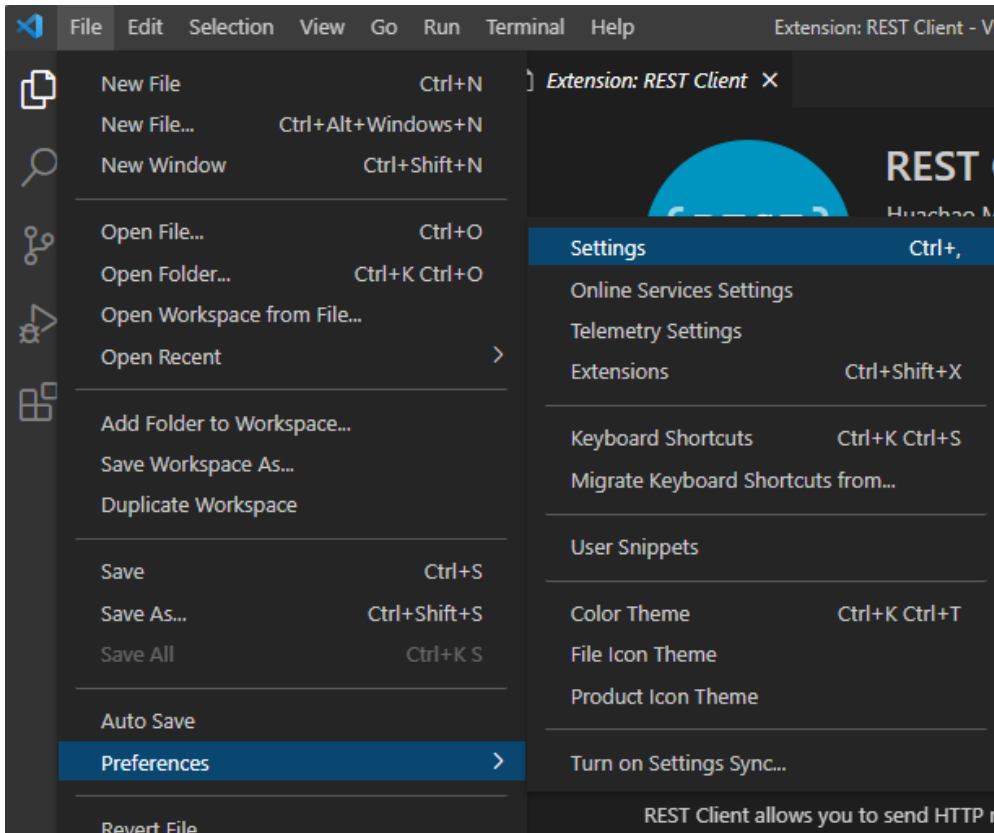


4. Testing in VS Code: set-up and configuration

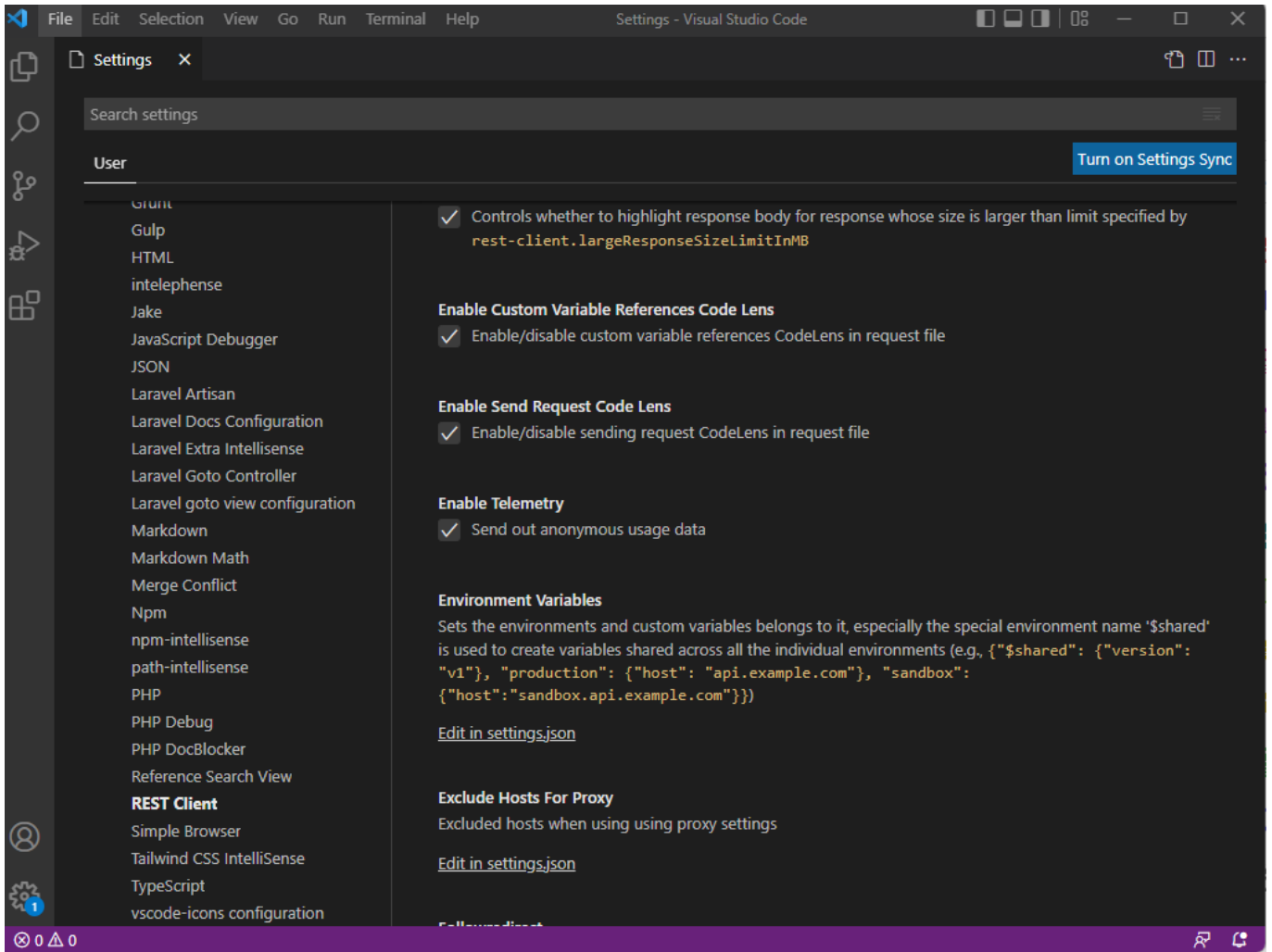
- First you will need to install VS code ([free – download here](#))
- Then you will need to install the REST client.



- In VS code, go to FILE -> PREFERENCES -> SETTINGS,



- Choose the chapter “extensions”
- Choose “REST-Client” settings
- Scroll the page down to “Environment Variables and choose “Edit in settings.json”



- Then, enter some basic settings and credentials in a section for “ETIM-production” or any other name you would like to name it by, like this:

```

“ETIM-production”: {
  “authUrl”: “https://etimauth.etim-international.com”,
  “baseUrl”: “https://etimapi.etim-international.com/api/v2.0”,
  “client_id”: “[enter your client id here]”,
  “client_secret”: “[enter your client secret here]”,
},

```



```
Settings settings.json
C: > Users > jeroe > AppData > Roaming > Code > User > settings.json > rest-client.environmentVariables
1  {
2    "workbench.colorTheme": "Default Dark+",
3    "workbench.iconTheme": "vscode-icons",
4    "rest-client.environmentVariables": {
5
6      "$shared": {},
7
8      "ETIM-production": {
9        "authUrl": "https://etimauth.etim-international.com",
10       "baseUrl": "https://etimapi.etim-international.com/api/v2.0",
11       "client_id": "[enter your client id here]",
12       "client_secret": "[enter your client secret here]",
13     },
14   },
15
16 }
17 }
```

(you will have to enter your own client credentials. If you haven't got them yet, go to page 2 and read how to get them.)

5. Testing in VS code

Now, together with the downloaded or cloned testing examples from the Bitbucket Page you can get to work with testing API calls. Here are the steps on how to actually do a request, and how to review a response.

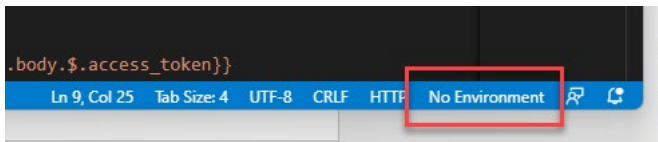
1) Open a file with test-calls

The API calls are written and grouped in separate files, with the Object in the title. So API calls on classes can be found in Class.http. Let's open this in VS code.

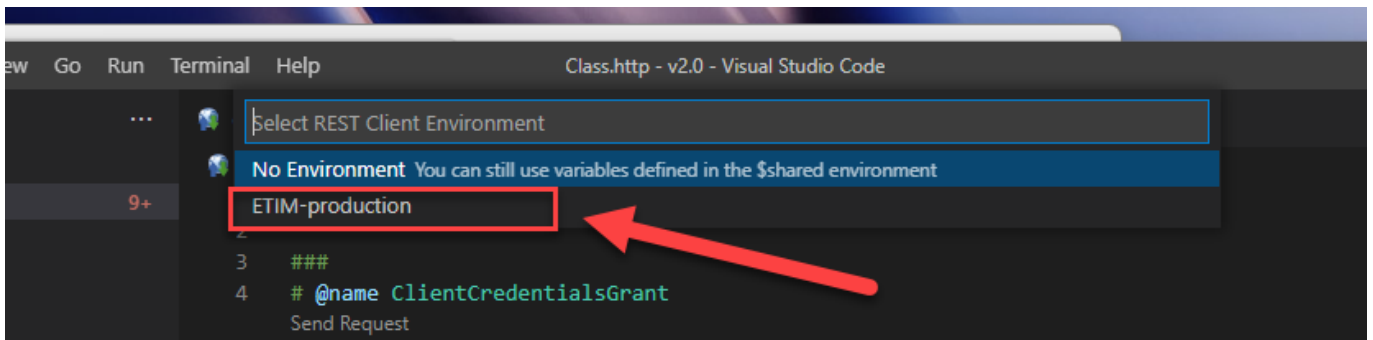
```
View Go Run Terminal Help Class.http - v2.0 - Visual Studio Code
... Class.http 9+ x
Class.http > ClientCredentialsGrant
9+ 1  ### variables from .vscode/settings.json
2
3  ###
4  # @name ClientCredentialsGrant
5  Send Request
6  POST {{authUrl}}/connect/token HTTP/1.1
7  Content-Type: application/x-www-form-urlencoded
8  grant_type=client_credentials
9  &client_id={{client_id}}
```

2) Point the REST-client to the right settings

Only after you have opened a file with REST-API calls in them, you will be able to find a menu at the right bottom of VSCode's status bar. Right now it should say "No Environment" or any name pointing to other REST-settings. Click on this to change the pre-loaded credentials and URL's for the ETIM API from the configuration settings.



In the top of the screen a drop-down list appears where you can choose the pre-load settings for ETIM-production. The word "production" refers to the live production environment.



Now you are all set and to connect to the API server of ETIM.

3) Connecting to the server with your `client_id` and `client_secret`

Before anything else, you will need to connect to the API server and collect an access token based on your client credentials. An access token is best to be described as a key-card to get into the office that you can reuse during a certain time frame. Here's how to get the token:

- Go to the first set of lines of code that starts with **# @name ClientCredentialsGrant**
- Right-click on the line starting with **POST**, and in the context menu, choose the command **Send Request**



```
Class.http x
Class.http > ClientCredentialsGrant
1  ### variables from .vscode/settings.json
2
3  ###
4  # @name ClientCredentialsGrant
   Send Request
5  POST {{authUrl}}/connect/token HTTP/1.1
6  Content-type: appl
7
8  grant_type=client_
9  &client_id={{clien
10 &client_secret={{c
11 &scope=EtimApi
12
13
14 ###
15 # Return all class
16 # with 1000 items
   Send Request
17 POST {{baseUrl}}/C
18 Content-Type: appl
19 Authorization: Bea
20
```

Context menu options:

- Go to Definition F12
- Go to References Shift+F12
- Peek >
- Find All References Shift+Alt+F12
- Change All Occurrences Ctrl+F2
- Cut Ctrl+X
- Copy Ctrl+C
- Paste Ctrl+V
- Send Request Ctrl+Alt+R**
- Generate Code Snippet Ctrl+Alt+C
- Copy Request As cURL
- Command Palette... Ctrl+Shift+P

PROBLEMS 10 OUTPUT DE

Class.http 10

- Request 'ClientCredentia
- Request 'ClientCredentialsGrant' has not been sent [Ln 32, Col 23]
- Request 'ClientCredentialsGrant' has not been sent [Ln 55, Col 23]

As you can see there is also a short cut key for sending the request.

When the request is sent, the window view changes to a two-column split and in the right column a second file opens where the response will be displayed. If everything went OK, the API server has answered your request with sending you a token which is basically a very long string of characters. See example below or on the next page.



```
File Edit Selection View Go Run Terminal Help Response(92ms) - v2.0 - Visual Studio Code
Class.http x Response(92ms) x
1 Class.http > ClientCredentialsGrant
2 1 ### variables from .vscode/settings.json
3 2
4 3 ###
5 4 # @name ClientCredentialsGrant
6 5 Send Request
7 6 POST {{{baseUrl}}}/connect/token HTTP/1.1
8 7 Content-Type: application/x-www-form-urlencoded
9 8
10 9 grant_type=client_credentials
11 10 &client_id={{client_id}}
12 11 &client_secret={{client_secret}}
13 12 &scope=EtimApi
14 13
15 14 ###
16 15 # Return all classes with minimal details
17 16 # with 1000 items per request starting at 0
18 17 Send Request
19 18 POST {{{baseUrl}}}/Class/Search HTTP/1.1
20 19 Content-Type: application/json
21 20 Authorization: Bearer {{{ClientCredentialsGrant.response.body}}
22 21
23 22 {
24 23   "From": 0,
25 24   "Size": 1000,
26 25   "Languagecode": "nl-NL"
27 26 }
28 27 ###
29 28 # Return all regular classes (without modelling classes) wit
30 29 # with 100 items per request starting at 0
31 30 Send Request
32 31 POST {{{baseUrl}}}/Class/Search HTTP/1.1
33 32 Content-Type: application/json
34 33 Authorization: Bearer {{{ClientCredentialsGrant.response.body}}
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Now you can ask a ton of other questions to the server that you can test, in order to integrate this into your own software later. The examples you will find in the example files that you downloaded from the Bitbucket page.

The Swagger page will give you full disclosure on all the possible parameters you can send with your request, in order to get exactly the results you need. You can filter, switch languages, maximize output and a lot more. On the Swagger page all these options are very meticulously explained per API-call.



Object of type Etim.Models.Elastic.EntitySearchInput.

Example Value | **Schema**

```
EntitySearchInput {
  from* integer($int32)
    maximum: 19000
    minimum: 0
    Startposition for paging. From must be less than or equal to 19000. From + size must be less than or equal to 20000
  size* integer($int32)
    maximum: 1000
    minimum: 0
    Total records per page Size must be less than or equal to 1000. From + size must be less than or equal to 20000
  languagecode* string
    Language of the output description fields. Language of the input SearchString if used
  searchString string
    nullable: true
    Search with a specific text in description or synonym
  deprecated boolean
    nullable: true
    Some entities (features, values and units) can be deprecated. This means they may not be used anymore in future. If not set, return both deprecated and not deprecated entities if
    Deprecated = true, return only deprecated entities if Deprecated = false, return only entities that are not deprecated Only applicable for features, values and units
  modelling boolean
    nullable: true
    Some classes are special Modelling classes. Modelling classes start with MC***** If not set, return both Modelling (MC) and Regular (EC) classes If Modelling = true, return only
    modelling classes If Modelling = false, return only regular classes Only applicable for classes
  include IncludeModel {
    descriptions boolean
      Include description field (Class, Group, Feature, Value, Unit) Include synonyms field (Class) Include abbreviation field (Unit) for the specified
      languagecode
    translations boolean
      Include translations field (Class, Group, Feature, Value, Unit) Translations consist of a list with all descriptions for the languages the client is entitled to.
```

Now you know how to try out the ETIM-API server. So why don't you try out some more requests, and build amazing apps with ETIM Inside!

