

Installation of API Steps for installation:

1. NodeJS: access [www.nodejs.org](http://www.nodejs.org), download and install it.
2. Neo4J: access [www.neo4j.com](http://www.neo4j.com), download and install it. This project is in Neo4J's version 2.2.4.
3. Packages: open terminal and type "npm install [package name]". It is necessary to install all the packages listed above.
4. Mathematica: the user needs to have the software mathematica installed in his machine and "math" command unmodified.
5. Download Project: the user can find accessing [github.com/andreparis/-API-JavaScript-2.0](https://github.com/andreparis/-API-JavaScript-2.0) and, then, download zip and extract it.

In this project, via npm, were installed the following packages:

- **express**: allows to set up middlewares to respond to HTTP Requests; defines a routing table which is used to perform different action based on HTTP Method and URL; allows to dynamically render HTML Pages based on passing arguments to templates.
- **body-parser**:
- **path**: is used for handling and transforming file paths.
- **request-promise**: is used in asynchronous process.
- **multer**: upload files.
- **crypto**: used to encrypt strings.
- **fs**: upload files.
- **q**: is used in asynchronous process.
- **bluebird**: is used in asynchronous process.
- **child** process: is used to integrate other softwares.

After the user did these steps, he needs to open terminal, going to the directory where is the project and typing "nodejs main.js". Now the API is running.

An API RESful is the back-end of a software, so an user could need front-end page. But, it is possible to work with the API using a terminal or browser extension like DHC Rest Client, which is a tool for developers to make direct HTTP/REST resource discovery, manipulation and testing easier. If user wants to install it, he needs to access [www.chrome.google.com/webstore/search/DHC](http://www.chrome.google.com/webstore/search/DHC) and install DHC Rest Client. The following image show the DHC environment.

It is possible to notice that directory name is "PROJETO LABTEL", user is free to choose any name, this place contain API functions. Functions name are also a free choice, in this case, name was given "NEO4J insert file". Now, in the section request, user has to type API server address (this project is 127.0.0.1:8081), function and method, as example above load graph and POST, respectively, in order to insert a file. Section header defines the operating parameters of the transaction, in this case a file is being sent, so, it is only necessary to type "Content-Type" is "multipart/form-data". Body is where user set his contents, first column is name of variables, defined by who develop the API, second column is type of content, file or text, and third column is the content, which it is defined by user. Thus, pressing send button a request going to be sent and response going to be received in section response. It is also important to notice that users do not need to inform the file format, in this function case