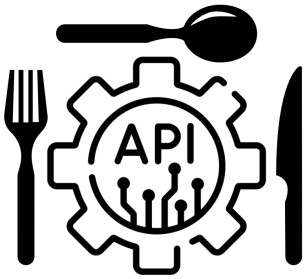
D1 - RESTaurant API

D-API-100

RESTaurant API

Bootstrap



0.4.1

EPITECH. DIGITAL

A bootstrap aims at assessing your strength and weaknesses concerning the different aspects of the project.

The goal here is not to master a specific topic (which is only possible through practice) but to discover and to enhance your intuition. This is precisely a prerequisite to a strong and sustainable learning. Only then you will be able to develop a better understanding of things

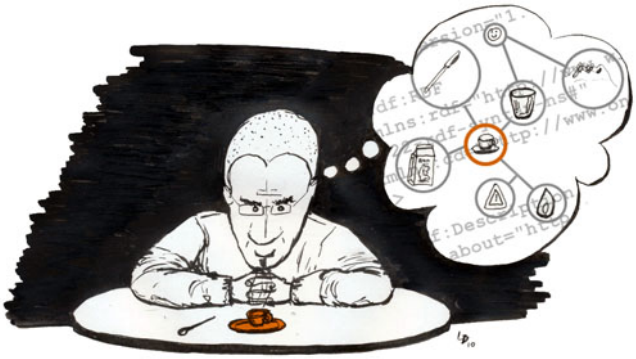
For each topic where you identified weaknesses, you must work by yourself and develop your skills concerning this very topic.

Explore, test, fall and get back up, until you feel able to foresee the consequences of your actions.

You should take your time and **focus on growing your less-developed skills**. This time will be considered well spent in the future. Do not attempt to do this whole bootstrap at once, it may be too long and too exhaustive, and covers some subjects on which you can work later on.

Consider this as a scientific experience: experiment without trying to solve the problem but to test the limits: what would happen if I do this? and if I skip this step? or if I switch this two actions?

Based on the cognitivism theory, this work allows you to create mental_representations by pushing the boundaries of your knowledge.

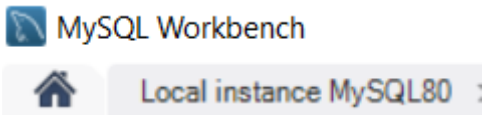


JARVISS are precious resources you should explore.

MYSQL

SQL (**Structured Query Language**) is a language to manage data in a relational database. It is extremely widespread nowadays and it is particularly useful in handling structured data (data incorporating relations among them). **mySQL** is a SQL implementation.

MySQL Workbench is a unified visual tool that provides data modeling, SQL development, database administration, …



You might want to use another tool, such as *PHPmyadmin*. Feel free to do so.

To succeed at this project, you should be able to use this tool to handle your mySQL database:

- open a connection;
- open a database ;
- visualize your tables and data ;
- execute SELECT, UPDATE and DELETE commands ;
- use JOIN keyword.

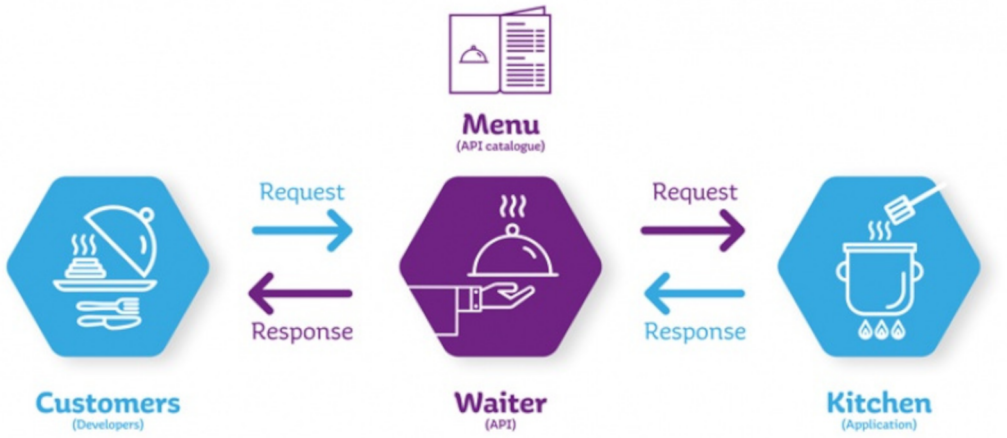
You are provided a *Sakila* database to test *mySQL Workbench*.

If these tasks seem too complex, get familiar with mySQL Workbench.
Then, make some random basic SQL challenges until you feel confident.

If you already master SQL, we encourage you to use an **ORM** in this project, such as Prisma.

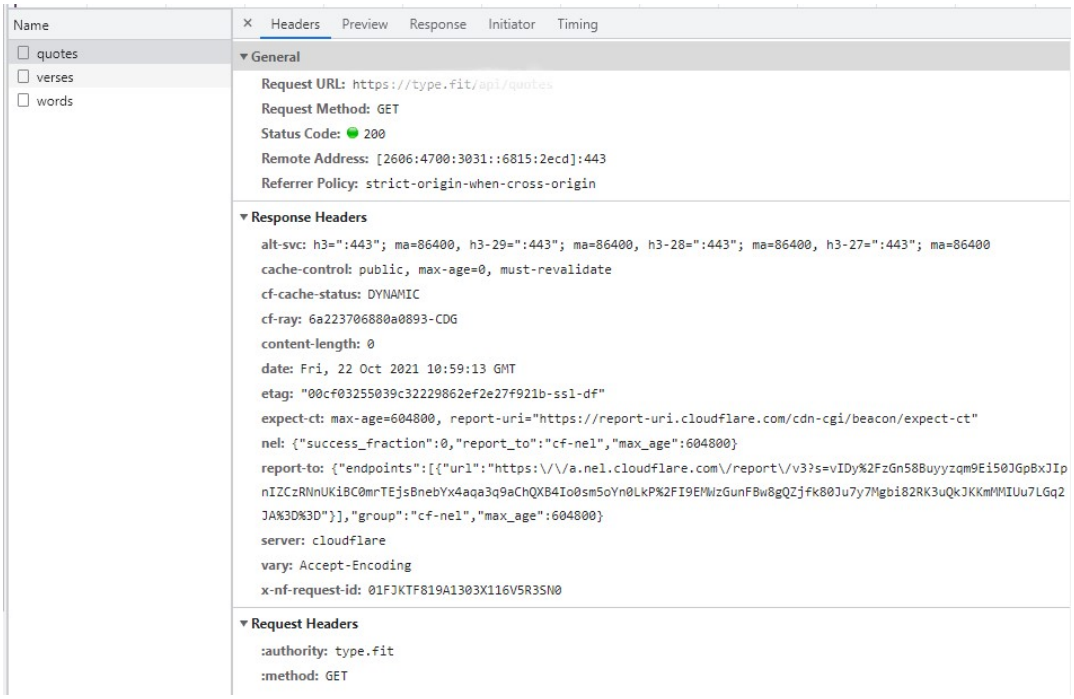
POSTMAN

You already know what an **API** is.



But it is sooooo important, you must be able to investigate them.
To do so, visit type.fit.

Click any of the «Inspirational Quote », « Bible Verse » or « Word of the Day » buttons, and find the associated request in the “Network” tab of the developper panel of your browser.
You should be able to find the routes of the free API of this website, as well as the request headers and the response headers.



Developers tools are nice but way insufficient.
Postman is an essential tool to test APIs.
As you are to create your own API, you should first download this software.

Play around with it and look for the conditions in which you case use it.

Test the *GET* method with **Postman**:

- enter an url in the address tab (by default the method is GET). For example one of the route of the *type.fit* ;
- click *send* and observe the response just below the request ;
- check the data sent by the answer, its headers and the status codes.

EXPRESS

Express is a minimalist and popular web framework in *node.js*.
It is a very nice way to write efficient code in a short time.

In Webstorm, create a new Express project, and create a /ping route that responds “pong”.
Start your server and check your route is functional with Postman.

Congrats! You just created your very first API!