

Python-Covid

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Chapter 1

Python-Covid

This project is a CLI application that gives information about the covid-pandemic evolution in France through the use of a public API.

1.0.1 Pre-requisite

To work with this project, you'll need...

- Python 3.7 or above installed
If you have Python installed and PiP ready, you can easily run the following command to install all the project dependencies at once :
`pip install -r requirements.txt`
On the other hand, you can install every requirement one by one :
- The "requests" module installed for Python : `pip install requests`
- The "tabulate" module installed for Python : `pip install tabulate`

1.1 To start the app

Just clone this repo and run
`py src/app.py`
and check that covid data !

If you wish to run this app on a computer using windows without having a python installation, you can download a release package that contains an executable made out of the source code using py2exe. (WIP)

1.2 Made with

- [VS Code](#) - A code editor that works well, made by Microsoft. Full of extensions made by the community, it supports a lot of languages, uses Git for merging and amending and a terminal is embedded in it.
- [Py2exe](#) - An extension that allows python to build apps into windows executables.
- [Doxygen](#) - An excellent tool for comments based documentation. It generates html content and a PDF.

1.3 Features

- A basic help page when typing `covid -h` that gives help about all the commands of the app
- A main function that gives a table full of data about today's status in every dept when typing `covid`
- A table containing data for a specific dept when typing `covid -dept <dpt_nb>`
- A table for a specific date when typing `covid -date <dd-mm-yyyy>`

1.4 Documentation

Documentation for this project is available as a [website](#) or as a [pdf file](#). All of it has been generated using Doxygen.

1.5 Versions

Last Stable Version : [1.0.2-d](#)

Last Version : [1.0.2-d](#)

Versions list : [Click here to see](#)

Versions are named like : Version M.m.p-state

M is the major version number, m is the minor version number, p is the patch/hotfix number and state is the current version state, it could be : "d" -> dev, "a" -> alpha, "b" -> beta, nothing -> final product

1.6 Authors

- **Yanis ATTIA** alias [@yadev83](#)

1.7 License

This project is under the GNU Public License (GPL) v3 license - see the file LICENSE.md for more information

Chapter 2

Class Index

2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

cli.CLI	A class made to create some CLI and commands interpretation	7
cli.Command	A class made to create some commands with their names and aliases	10
request.Request	A class made to create some API calls on "https://coronavirusapi-france.now.sh/"	10

Chapter 3

File Index

3.1 File List

Here is a list of all documented files with brief descriptions:

src/app.py	The main app file for the covid-python application	15
src/cli.py	This file contains specification for a cli Class and its components	15
src/request.py	The request class to be used for the Covid19-fr api	16

Chapter 4

Class Documentation

4.1 cli.CLI Class Reference

A class made to create some CLI and commands interpretation.

Public Member Functions

- def `__init__` (self, keyword)
- def `exec` (self, command)
Parses and executes the whole line.
- def `run` (self)
Tha main loop for the CLI to run.

Public Attributes

- `shouldQuit`

Private Member Functions

- def `__handle_cmd` (self, instruction, param="")
Take an instruction as a parameter (and the following parameter)
- def `__exec_cmd` (self, command, param="")

Private Attributes

- `__keyword`
- `__api`
- `__commands`

4.1.1 Detailed Description

A class made to create some CLI and commands interpretation.

4.1.2 Member Function Documentation

4.1.2.1 `__handle_cmd()`

```
cli.CLI.__handle_cmd (
    self,
    instruction,
    param = "" ) [private]
```

Take an instruction as a parameter (and the following parameter)

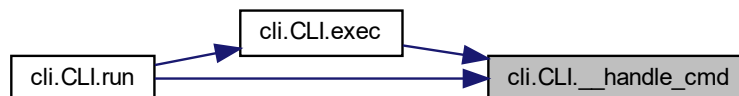
Parameters

<i>instruction</i>	the option to run (either <code>--option</code> or <code>-alias</code>)
<i>param</i>	the parameter to give to that specific option

Here is the call graph for this function:



Here is the caller graph for this function:



4.1.2.2 `exec()`

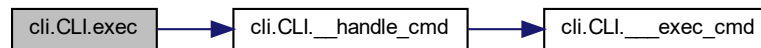
```
cli.CLI.exec (
    self,
    command )
```

Parses and executes the whole line.

Parameters

<i>command</i>	A string containing a full line of command
----------------	--

Here is the call graph for this function:



Here is the caller graph for this function:

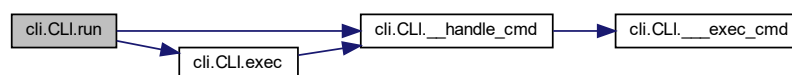


4.1.2.3 run()

```
cli.CLI.run (
    self )
```

The main loop for the CLI to run.

Waits for an input and treat it Here is the call graph for this function:



The documentation for this class was generated from the following file:

- [src/cli.py](#)

4.2 cli.Command Class Reference

A class made to create some commands with their names and aliases.

Public Member Functions

- `def __init__ (self, name, alias, desc)`
- `def get_description (self)`
returns the description of the command
- `def get_name (self)`
returns the complete name of the command
- `def get_alias (self)`
returns the alias of this command

Private Attributes

- `__description`
- `__name`
- `__alias`

4.2.1 Detailed Description

A class made to create some commands with their names and aliases.

The documentation for this class was generated from the following file:

- `src/cli.py`

4.3 request.Request Class Reference

A class made to create some API calls on "https://coronavirusapi-france.now.sh/".

Public Member Functions

- `def __init__ (self)`
- `def print_response (self)`
This prints the self.response dictionnary as a table in the terminal.
- `def export_response_to_excel (self, fname="output.xls")`
This exports the contents of the result response to an xls file.
- `def get_global_data (self)`
Throw a request that gets the data about the whole France.
- `def get_all_data (self, date="0000-00-00")`
Throw a request that gets the data about every department of France altogether.
- `def get_dpt_data (self, dpt, date="0000-00-00")`
Throw a request that gives data about a specific departement.

Public Attributes

- `response`

Private Member Functions

- `def __push_info (self, zone)`
This pushes an info into the response list.

Private Attributes

- `__apiAddr`

4.3.1 Detailed Description

A class made to create some API calls on "https://coronavirusapi-france.now.sh/".

4.3.2 Member Function Documentation

4.3.2.1 __push_info()

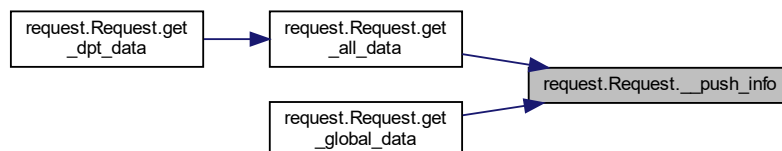
```
request.Request.__push_info (  
    self,  
    zone ) [private]
```

This pushes an info into the response list.

Parameters

<code>zone</code>	This parameter is the json-formatted dictionnary for a specific department in france (or global)
-------------------	--

This creates an element in the response dictionnary properly formatted Here is the caller graph for this function:



4.3.2.2 export_response_to_excel()

```
request.Request.export_response_to_excel (
    self,
    fname = "output.xls" )
```

This exports the contents of the result response to an xls file.

Parameters

<i>fname</i>	the name of the file to write to
--------------	----------------------------------

4.3.2.3 get_all_data()

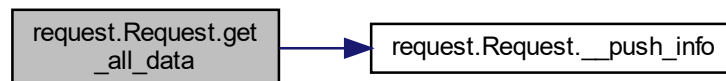
```
request.Request.get_all_data (
    self,
    date = "0000-00-00" )
```

Throw a request that gets the data about every department of France altogether.

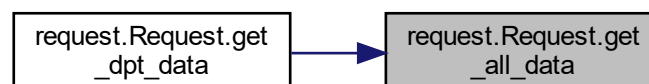
Parameters

<i>date</i>	The date from which we want the data. By default, this is today's date
-------------	--

Here is the call graph for this function:



Here is the caller graph for this function:



4.3.2.4 get_dpt_data()

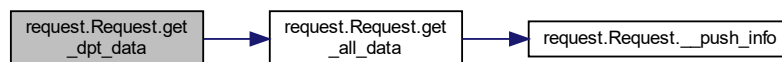
```
request.Request.get_dpt_data (
    self,
    dpt,
    date = "0000-00-00" )
```

Throw a request that gives data about a specific department.

Parameters

<i>dpt</i>	The department number to get
<i>date</i>	The date from which we want the data. By default, this is today's date

There is in the API a specific "url/LiveDataByDepartement?Departement={dpt}" call available. However, to be able to do a request with a specific date, it has to be a "AllDataByDate" call. So this function makes a [get_all_data\(\)](#) call with a specific date and then filters the full request with only the wanted department. Here is the call graph for this function:



The documentation for this class was generated from the following file:

- [src/request.py](#)

Chapter 5

File Documentation

5.1 src/app.py File Reference

The main app file for the covid-python application.

Variables

- `app.interface = cli.CLI("covid")`

5.1.1 Detailed Description

The main app file for the covid-python application.

Author

Yanis ATTIA (@yadev83)

Version

0.1

Date

2021-01-08

Copyright

Copyright (c) 2021

5.2 src/cli.py File Reference

This file contains specification for a cli Class and its components.

Classes

- class [cli.CLI](#)
A class made to create some [CLI](#) and commands interpretation.
- class [cli.Command](#)
A class made to create some commands with their names and aliases.

5.2.1 Detailed Description

This file contains specification for a cli Class and its components.

Author

Yanis ATTIA (@yadev83)

Version

0.2

Date

2021-01-10

Version 0.2 - Added documentation

Version 0.1 - File creation

Copyright

Copyright (c) 2021

5.3 src/request.py File Reference

The request class to be used for the Covid19-fr api.

Classes

- class [request.Request](#)
A class made to create some API calls on "<https://coronavirusapi-france.now.sh/>".

5.3.1 Detailed Description

The request class to be used for the Covid19-fr api.

Author

Yanis ATTIA (@yadev83)

Version

0.3

Date

2021-01-08

Version 0.3 - Removes camel case notation

Version 0.2 - Adds getDptData and date parameter

Version 0.1 - File creation

Copyright

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