

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
- 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.

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.

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 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

1.5 Authors

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

1.6 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:

[request.Request](#)

A class made to create some API calls on "https://coronavirusapi-france.now.sh/" [7](#)

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	11
src/request.py	The request class to be used for the Covid19-fr api	11

Chapter 4

Class Documentation

4.1 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 printResponse (self)`
This prints the self.response dictionnary as a table in the terminal.
- `def getGlobalData (self)`
Throw a request that gets the data about the whole France.
- `def getAllData (self, date="0000-00-00")`
Throw a request that gets the data about every department of France altogether.
- `def getDptData (self, dpt, date="0000-00-00")`
Throw a request that gives data about a specific departement.

Public Attributes

- `response`

Private Member Functions

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

Private Attributes

- `__apiAddr`

4.1.1 Detailed Description

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

4.1.2 Member Function Documentation

4.1.2.1 `__pushInfo()`

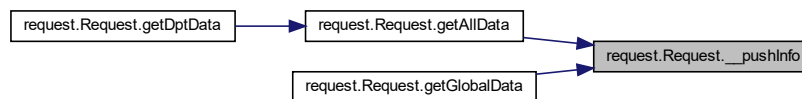
```
request.Request.__pushInfo (
    self,
    zone ) [private]
```

This pushes an info into the response list.

Parameters

<i>zone</i>	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:



4.1.2.2 `getAllData()`

```
request.Request.getAllData (
    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:



4.1.2.3 getDptData()

```

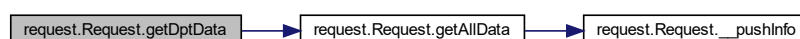
request.Request.getDptData (
    self,
    dpt,
    date = "0000-00-00" )
  
```

Throw a request that gives data about a specific departement.

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 [getAllData\(\)](#) call with a specific date and then filters the full request with only the wanted departement. 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.api = req.Request()`

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/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/".

5.2.1 Detailed Description

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

Author

Yanis ATTIA (@yadev83)

Version

0.2

Date

2021-01-08

Version 0.1 - File creation

Version 0.2 - Adds getDptData and date parameters

Copyright

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