Covid Web-scraper

# Project Link: https://github.com/sergiohgp/COVID\_webscrapping.git

# Project Details

In this project, we built an application using web-scraping to retrieve data from a covid tracker website and populate our MongoDB database with this content. Then, we will create a simple website with Django to display it.

# Team Members:

|  |  |
| --- | --- |
| Student ID | Student Name |
| C0766570 | Sergio Pereira |
| C0766810 | Tiago Soriano |

# MongoDB Database Information

Database Name: termproject

|  |  |  |
| --- | --- | --- |
| Collection Name | Collection Details and # of Documents available | Team Member(s) worked on it |
| countries\_country | This collection is filled with country’s data, such as id, name, population, area, and flag. There are 39 documents available. | Sergio Pereira |
| countries\_covid\_cases | This collection is filled with covid cases’ data, such as id, related country’s name, total cases, total deaths, and new cases. There are 39 documents available. | Tiago Soriano |

Database backup file: Attach your database backup file here so that it can be restored and used.

# Python Methods to GET/Insert/Delete/Update Information

|  |
| --- |
| **Method Name, Details, Screen Shot, Author** |
| Author: Tiago Soriano  Method: country\_list  Details: This Method gets all the countries and covid information; here we are retrieving all the countries to display them on the view.  Text  Description automatically generatedScreenshot of code:  Text  Description automatically generatedScreenshot of output window: |
| Author: Sergio Pereira  Method: insert\_documents\_into\_countries\_country  Details: This Method inserts one country information into the database; here we are passing document as a parameter to the function to check if it already exists.  Text  Description automatically generatedScreenshot of code:  Text  Description automatically generatedScreenshot of output window: |
| Author: Tiago Soriano  Method: delete\_document  Details: This Method deletes one document information filtered by id; here we are passing collection and id as parameters to the function.  Graphical user interface, application  Description automatically generatedScreenshot of code:  Text  Description automatically generatedScreenshot of output window: |
| Author: Sergio Pereira  Method: update\_document  Details: This Method updates one document information; here we are passing collection and document as parameters to the function.  Text  Description automatically generatedScreenshot of code:  Text  Description automatically generatedScreenshot of output window: |

# User Interface:

UI1:

* Details: A table with all the countries and covid data information. Also, a button and a link to access the other user interfaces.
* Table

  Description automatically generatedScreen Shot of Output:
* Text

  Description automatically generatedScreenshot of the Code:

UI2:

* Details: A form with country and covid data information already filled.
* Graphical user interface, application

  Description automatically generatedScreen Shot of Output:
* Text

  Description automatically generatedScreenshot of the Code:

UI3:

* Details: A form to get the country and covid data information from the user.
* Graphical user interface, application

  Description automatically generatedScreen Shot of Output:
* Text

  Description automatically generatedScreenshot of the Code:

# Score Distribution

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Module | Total Marks | Sergio Pereira | Tiago Soriano | Student 3 | Student 4 |
| NoSQL Database | 20 |  |  |  |  |
| Python Methods | 25 |  |  |  |  |
| UI Forms and data display | 25 |  |  |  |  |
| Charts/Graphs | 10 |  |  |  |  |
| Documentation | 20 |  |  |  |  |
| Total | 100 |  |  |  |  |