Professional Achievement Points Project – MIS2402
Web API – Covid Data

Read this first

This project is being offered to MIS2402 students who are looking to earn additional MIS professional achievement points. This project is not extra credit. Participation in the project will not improve or reduce your grade in MIS2402. This project is optional. You don't need to do this project if you don't want to. The incentive for doing this project is MIS PRO points, and the joy of learning/applying a new skill: programming.

If you take advantage of this opportunity you may earn 0, 25, or 50 portfolio points based on my evaluation of your work.

The project

As you have seen in class, there are web APIs available to programmers that will allow them to do a variety of tasks. Some APIs designed to broadcast data for other applications to consume. One of these can be found here:

https://misdemo.temple.edu/covid

The misdemo URL above is serving as a proxy to a real data set provided by a real, free API provided by rapidapi.com. The data set is dynamic and refreshes (approximately) every 15 minutes.

Students should use the API data to create summary statistics. Create an HTML form with a button for each statistic. Retrieve data and (re)calculate the statistic with each button click.

The goal of this PRO points project is to give students an opportunity to demonstrate their knowledge of functions, loops, conditional statements, and jQuery.

This is **not** a project where graphs, charts, and other visual elements are of primary importance. What is important is that your calculations are correct, and dynamic (that is, the statistics change as the underlying data changes).

Additional details follow.

Requirements

Students should choose 5 out of the 11 questions below and write code that will dynamically determine the answer to each question.

1. What country has had the most Covid-19 cases. How many?
2. What country has had the most Covid-19 deaths. How many?
3. What country has had the most Covid-19 tests per million people. How many?
4. List the unique **continents** found in this data set.
5. Which **continent** has the most Covid-19 deaths?
6. Which **continent** has the most Covid-19 tests?
7. What country has the most new Covid-19 cases as of today?
8. What country has had the most recoveries?
9. What country has the highest rate of recovery? (You'll need to do some division here.)
10. What country has the lowest rate of recovery? (You'll need to do some division here.)

Upload your work to the misdemo.temple.edu when you are done and ensure that your code runs there. See the "Submit your work" instructions below.

Assessment

Students will receive 0, 25, or 50 pro points based on the instructor's assessment of their work.

Submit your work / Request your points

When you have uploaded your work to the class server, submit your points request. To submit your points request, log in to the https://community.mis.temple.edu site. Open your Dashboard. Open "Professional Achievement Points" and "Add New". You will have the option of submitting a points request relevant to this course, MIS2402.

Your PRO points request should include your recommendation and a link to your proof-of-concept work on the class server.

Submissions for points must be placed no later than 11:59PM on Friday 12/11.