

Lab #1

Instructions

With lab #1, your group will write a python program that allows you to practice using the request module used in web scraping. It will also allow the group to practice with the different properties of the response object.

Submission Requirements

- Python .py file with no markdown language. Only Python Code and comments.
- Group Assignment: Only 1 assignment needs to be submitted for each group.
- You should seek to reduce redundancy in your code.

Task

You are to scrape a website; however, prior to beginning that task, you would like to check for information about the website you will scrape. The following are the webpages:

- Samsung Galaxy s20 5G: <http://drd.ba.ttu.edu/isqs3358/labs/lab1/phone.php?id=1>
- Apple iPhone 11: <http://drd.ba.ttu.edu/isqs3358/labs/lab1/phone.php?id=1341>
- Google Pixel 4a: <http://drd.ba.ttu.edu/isqs3358/labs/lab1/phone.php?id=4228>

For each webpage, you would like to report the following information:

- Length of characters found in page
- HTML response code
- How long does it take to connect to the website
 - **Note, your values will vary from my example**
- Encoding Type
- Content Type of the webpage
 - **Note, your values will vary slightly from my example**
- Whether the website is SSL protected

Notes and Hints

To help reduce redundancy in your code. Write your code to solve the first webpage, then add a loop that can variablize your previous code so that the loop iterates on each of the webpages.

Example Output

Phone: Samsung galaxy s20 5G
Length of Text: 2585
Duration of Call (Microseconds): 158634
Encoding: UTF-8
Content Type: {'Content-Type': 'text/html; charset=UTF-8', 'Server': 'Microsoft-IIS/10.0', 'X-Powered-By': 'PHP/8.0.0, ASP.NET', 'Date': 'Wed, 03 Aug 2022 17:05:36 GMT', 'Content-Length': '2593'}
SSL Protected: []

Phone: Applie iPhone 11
Length of Text: 3408
Duration of Call (Microseconds): 118875
Encoding: UTF-8
Content Type: {'Content-Type': 'text/html; charset=UTF-8', 'Server': 'Microsoft-IIS/10.0', 'X-Powered-By': 'PHP/8.0.0, ASP.NET', 'Date': 'Wed, 03 Aug 2022 17:05:36 GMT', 'Content-Length': '3413'}
SSL Protected: []

Phone: Google Pixel 4a
Length of Text: 1761
Duration of Call (Microseconds): 118955
Encoding: UTF-8
Content Type: {'Content-Type': 'text/html; charset=UTF-8', 'Server': 'Microsoft-IIS/10.0', 'X-Powered-By': 'PHP/8.0.0, ASP.NET', 'Date': 'Wed, 03 Aug 2022 17:05:36 GMT', 'Content-Length': '1764'}
SSL Protected: []
