CPSC449-Project3

Authors:

Mauricio Macias (mauricio.macias@csu.fullerton.edu) 890741622

Andrew Dinh (decayingapple@csu.fullerton.edu) 893242255

0 Installation

Make sure you are in the project root and run:

"foreman start"

1 Background

For this project we will learn to make HTTP requests from a Python program and use this ability to store server-side session data in a separate service.

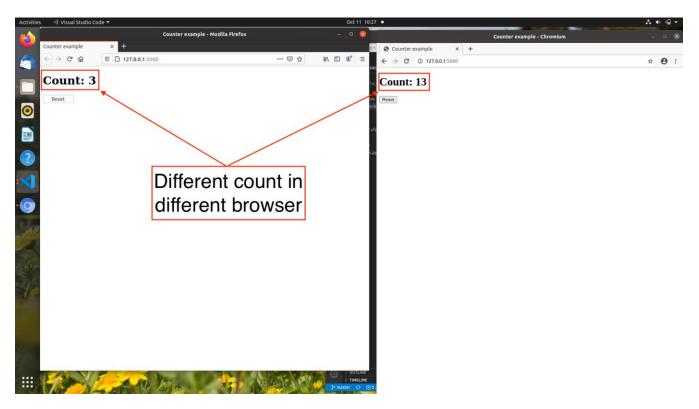
This project was completed by 2 people. Whose names are listed in the very top of this paper.

2 Learning HTTP request

Question 2

When USE_SESSION_STORE = False

Flask will use default session implementation: storing the session variables count in a signed cookie on the client side.

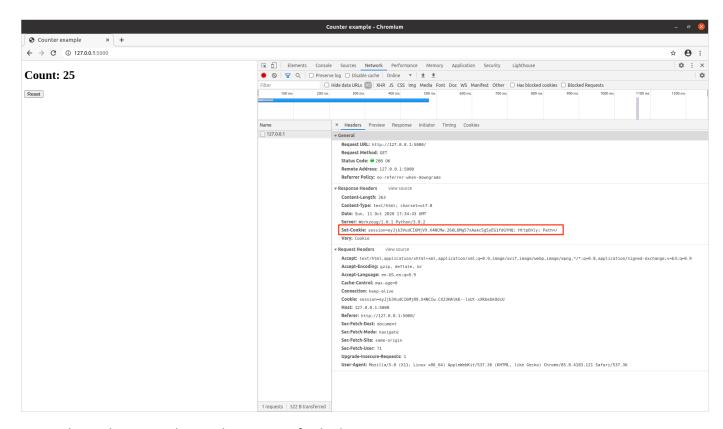


Notice that the two browsers do not share the same count variable.

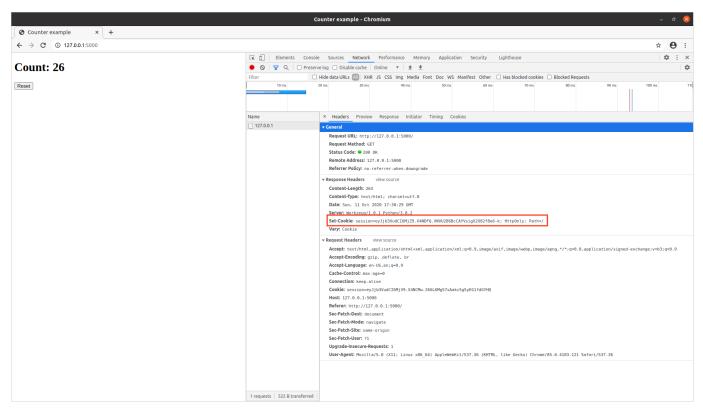
Question 3

Browser developer tools

Here are viewing the Set-Cookies: response header



Notice that it changes each time the page is refreshed.

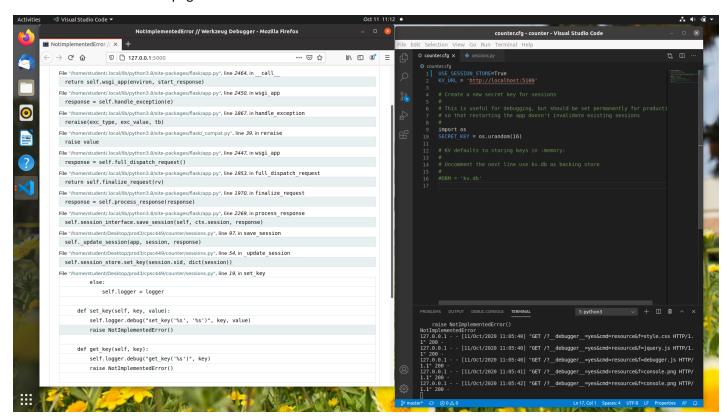


Question 6

counter.html

When USE_SESSION_STORE = True

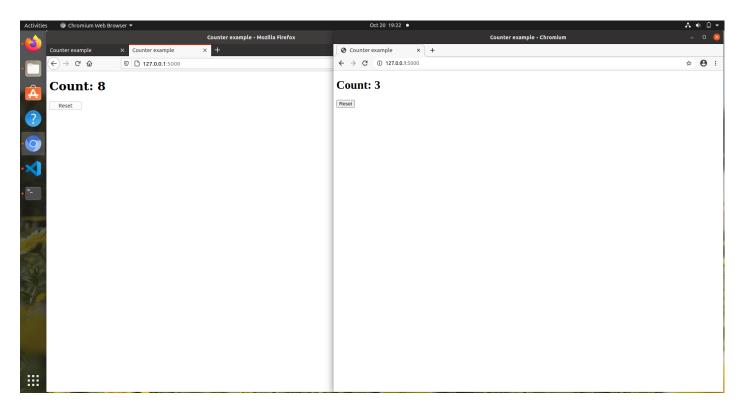
Flask will load the counter page.



Notice the methods of keyVaueSessionStore have not yet been implemented.

Question 8

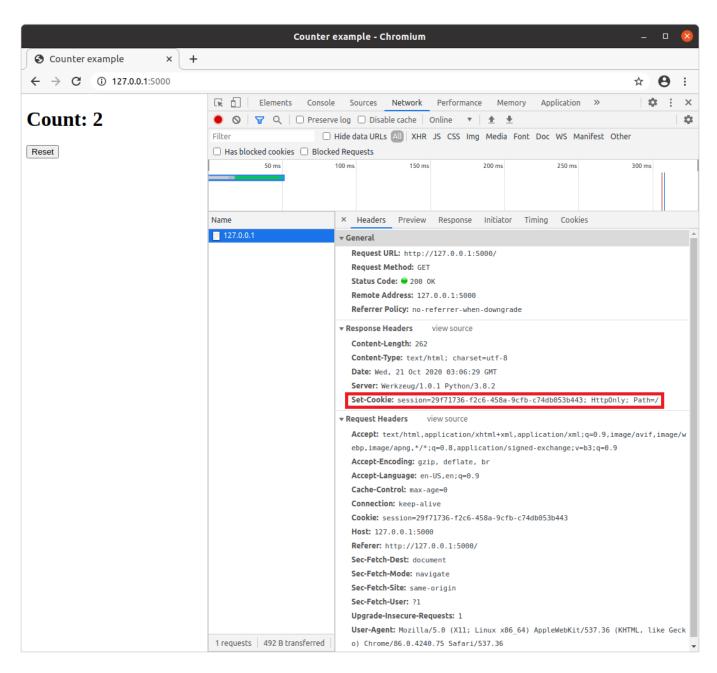
Flask will use now store sessions into a key-value store.



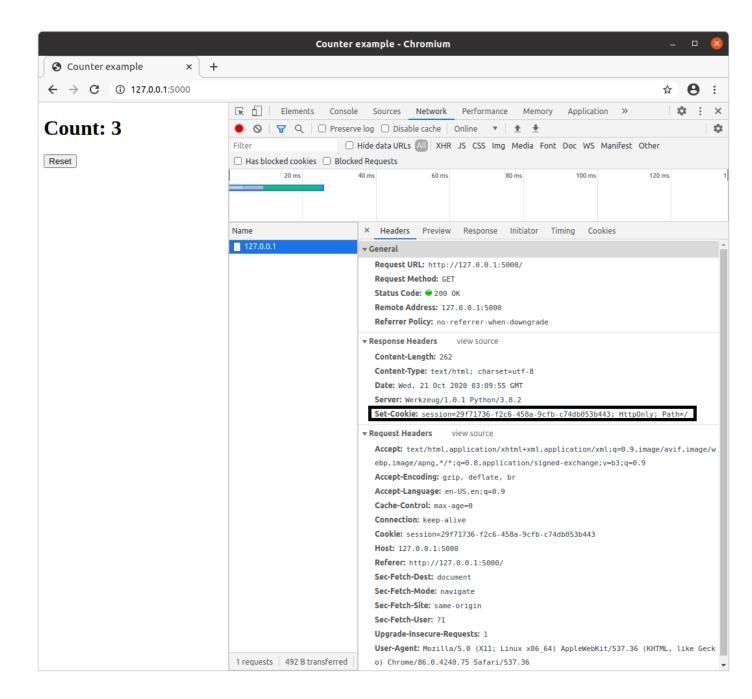
But, notice that the two browsers do not share the same count variable.

Question 9

Here are viewing the `Set-Cookies: response header `

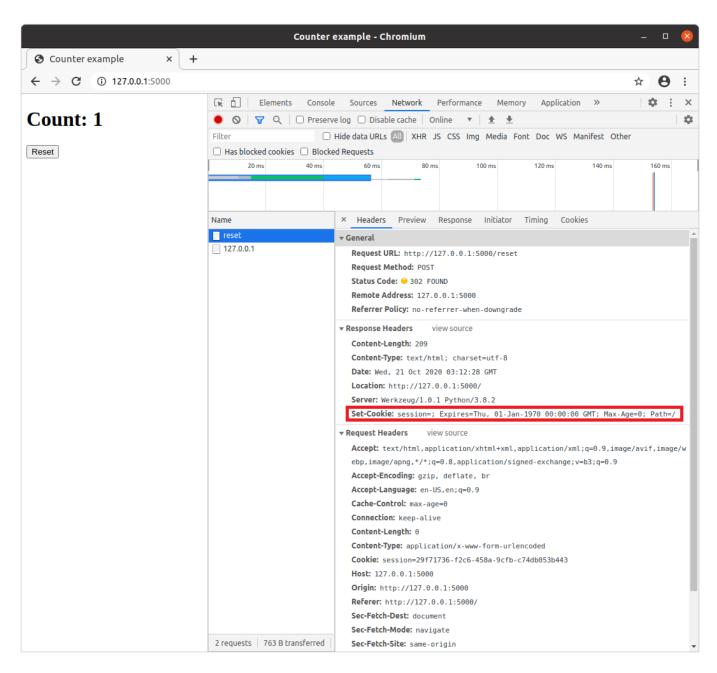


Notice that it 'Set-Cookies' does not change each time the page is refreshed.

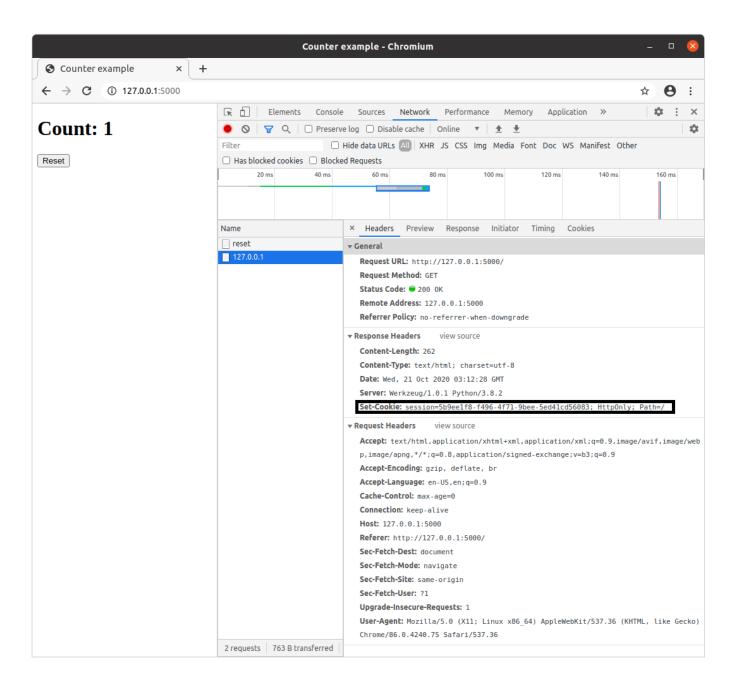


Question 10

Here are going to Click the Reset Button, notice that the POST request clears the session cookie.



Then the subsequent GET request generates a new session id.



Question 11

Then we are going to use our dump.py script to list the active sessions in the key-value store.

```
student@tuffix-vm:~/Desktop/pr3/CPSC449-Project3$ python3 dump.py http://127.0.0.1:5100/
{'651c81d4-e977-4964-84bd-3724471f6c27': {'count': 1}}
{'5b9ee1f8-f496-4f71-9bee-5ed41cd56083': {'count': 1}}
student@tuffix-vn:~/Desktop/pr3/CPSC449-Project3$
```