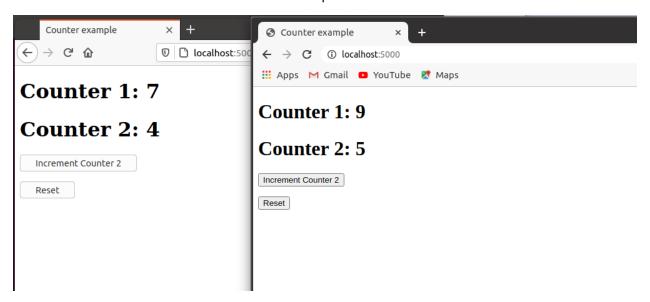
CPSC 449

Project 3: Cookies

Screenshots

Step 2:

Screenshot of two different browsers: left is Firefox and right is Chrome. Refreshes increments Counter 1 and button increments counter 2. Counters are separate in each browser.



Step 3:

Screenshot of Set-Cookie: response headers. Values change when refreshed or clicked.

First two pictures are from Chrome developers tools. There are two different response headers for each cookie: count1 and count2.



▼ Response Headers view source

Content-Length: 0

Content-Type: text/html; charset=UTF-8

Date: Fri, 19 Mar 2021 06:49:11 GMT

Location: http://localhost:5000/

Server: WSGIServer/0.2 CPython/3.8.5

Set-Cookie: count2=3

After refreshed is clicked, count1 is incremented from 7 to 8.

▼ Response Headers view source

Content-Length: 500

Content-Type: text/html; charset=UTF-8

Date: Fri, 19 Mar 2021 06:58:16 GMT

Server: WSGIServer/0.2 CPython/3.8.5

Set-Cookie: count1=8

After Increment Counter 2 button is clicked, count2 is incremented, then reroutes to localhost, which increments count1.

▼ Response Headers view source

Content-Length: 0

Content-Type: text/html; charset=UTF-8
Date: Fri, 19 Mar 2021 06:59:33 GMT
Location: http://localhost:5000/
Server: WSGIServer/0.2 CPython/3.8.5

Set-Cookie: count2=4

▼ Response Headers view source

Content-Length: 500

Content-Type: text/html; charset=UTF-8

Date: Fri, 19 Mar 2021 06:59:33 GMT

Server: WSGIServer/0.2 CPython/3.8.5

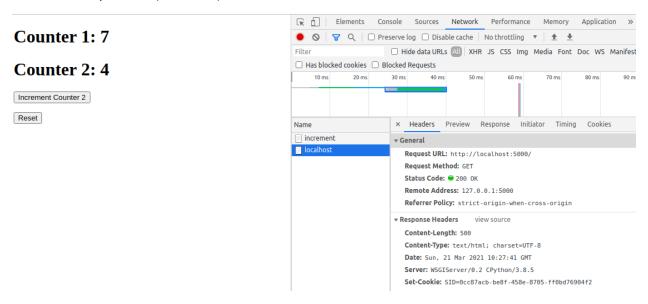
Set-Cookie: count1=9

You can also notice the Date (specifically the time) also changes.

Step 11:

Testing Project by repeating step 3. Check Set-Cookie response headers.

Set-Cookie only has SID (session id)

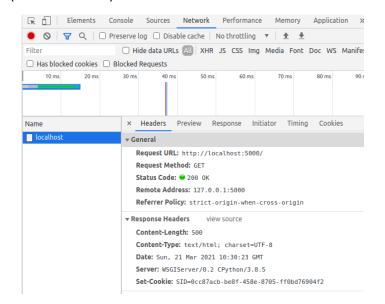


Clicking refresh button increments counter 1 (name: localhost) and set-cookie remains the same.



Counter 2: 4

Increment Counter 2

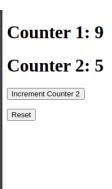


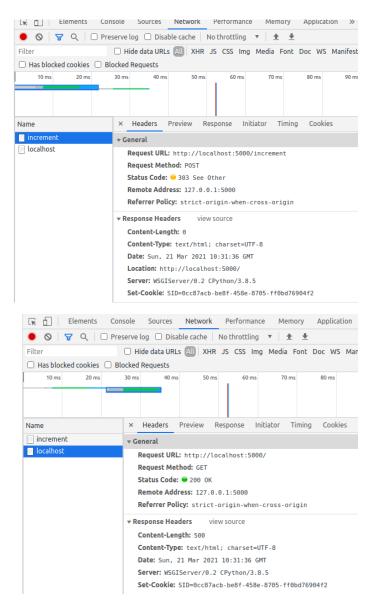
Clicking Increment Counter 2 button increments counter2 (name: increment). It then reroutes to localhost, which increments counter 1. Set-Cookie still doesn't change.

Counter 1: 9

Counter 2: 5

Increment Counter 2





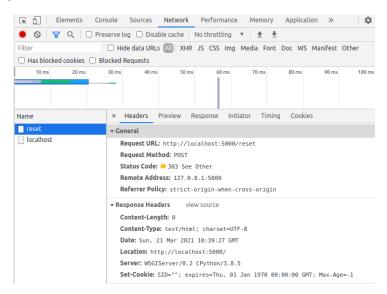
Also notice the Date (specifically the time) also updates and changes.

Step 12:

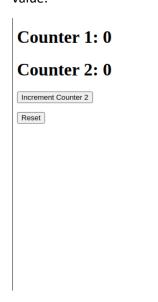
Checking the Set-Cookie values when reset button is clicked.

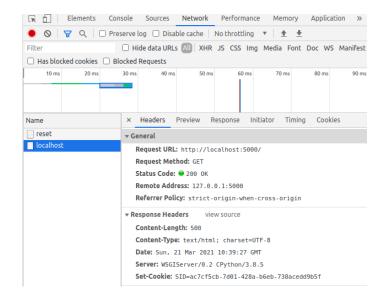
Set-Cookie still only has SID. It is cleared and empty. The values for counter 1 and 2 are also cleared. At this point, the values for counter 1 and 2 are not 0. They actually do not exist. Screenshot shows 0 because after reset, it reroutes to localhost, which will create counter 1 and 2 and set their values to 0.





After clearing, it then reroutes back to localhost, which will see that SID is empty so create a new SID value.





SID is different from the first session.

Step 13:

Screenshot of dump.py for two separate sessions on two different browsers (I used Chrome and Firefox).

Chrome on left and Firefox on right. Dump.py output shows below. The values are stored as key-value pair. The key is the SID and the value is the SDATA in the format of a dictionary, containing count1 and count2.

The sessions are separate and the values are also separate.

