Python 2.7 was used for this assignment

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2. We only collaborated with each other on this project. In terms of resources and references, we looked at the code for our previous projects, in addition to the Piazza. The code we used for structure and how we previously read files, and the Piazza for some specific questions we had regarding cookies.

3. Our code works as intended for all test cases. We tested both in a browser and using curl.

4. One difficulty/bug we encountered was when using curl and sending the POST request of 'password=new'. Since this was used to determine whether the user had clicked change password, sending this when on the log in screen meant that the user received the change password page, even though there was no user logged in. We fixed this by looking at whether there was a cookie present, as if there wasn't, then there was no user logged in since we always generated a cookie when a user logged in, and we sent the bad login page. We also checked whether a user was logged in with a variable as backup.

5. One fact we learned was how cookies were 'deleted'. We previously thought that there was an easy way to remove cookies, such as a delete cookie request or such. However, we would never have thought that deleting cookies would be equivalent to setting their date in the past, and letting the browser delete it itself.

Another thing we observed was the amount of information that is sent through headers. While it makes sense for some information being sent, such as the type of request, host, and other basic information. It was interesting to see how much additional information was being sent, such as user-agent, referrer, plus additional sec information. Thinking about it, it makes sense for web developers to have access to as much information as possible, so that they can optimize their sites and servers to work well with a variety of devices/browsers that exist.