

## **Project Report**

**Please answer the following questions for the project report.**

**1. Team details: Clearly state the names and netids of your team members (usually there are 2 of you).**

Joseph Lin (jl2818) and Andrew Ho (arh145)

**2. Collaboration: Who did you collaborate with on this project? What resources and references did you consult? Please also specify on what aspect of the project you collaborated or consulted.**

I had collaborated with Andrew to complete this project. Looking at the instructions given with the project descriptions, it guided us to understand the functionality of submitting and handling user's credentials. We had utilized HTTP and cookies documentation to help us with any issues we encountered relating to HTTP request handling.

**3. Is there any portion of your code that does not work as required in the description above? Please explain.**

We didn't encounter any significant issues with the code that were not working as described in the project instructions. Some minor errors were taken care of such as not opening the correct files and also having some trouble opening the port on a local browser. After adjusting these small issues, we were able to make the code run properly.

**4. Did you encounter any difficulties? If so, explain.**

One main difficulty that we faced was implementing persistent login using cookies. The difficulty was seen when we were configuring the cookies to persist across multiple client requests. It initially wouldn't store the cookies as expected, but by using documentation and trial and error, we were able to correctly make the login functionalities work.

**5. Please discuss two observations or facts you learned about HTTP and cookies in the process of working on this project. Please be specific and technical in your response.**

Working on this project has allowed us to get a better understanding of HTTP and how it is a stateless protocol which keeps no trace of previous interactions. It creates this

unique request each time but with the help of cookies, it helps keep track of logged in users even after refreshing the page. The project had also shown us the importance of how correctly parsing and interpreting cookies on the server side would allow users to manage their sessions with their credentials accordingly.