README file

Names and Netids

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net id : nsp99
(This is a solo project because team members were not found due to late registration)

Implementation of Recursive Root and TLD Server Functionality

For the recursive client-side functionality, there is a single function within the rs.py file called rootserver(). This function is used to query the RS DNS table and TS servers for IP addresses of hostnames. The root server function() receives a hostname from the client side and performs a case-insensitive DNS lookup for that hostname. If it finds a corresponding IP address, it sends that address back to the client. If it cannot find the corresponding IP address, it checks the hostname for the presence of ".com" and ".edu" and queries the appropriate TS servers accordingly. After receiving responses from the queried server, it sends a response back to the client. The final outcome of the IP address search is then written to a file titled "RESOLVED.txt", which must be reopened to see the results.

Current Issues in Code

There are no known issues or functions that are not working correctly in the code. In order for the results to display in "RESOLVED.txt," the file must be in the same location as "client.py" and reopened by the tester in order to see updated results.

Problems Encountered

During the development of code for this project, one of the biggest issues I faced was the time-constraint, for I did not have a partner. It was also challenging for me to figure out how to fix the errors present in the previous portion of the project, because they ran perfectly fine when I tested them. Since the project 1 grade was released so close to the project 2 deadline, I did not have time to talk to the tas and figure out where I went wrong, so those same mistakes may have been repeated in the this project.

Knowledge Gained

I learned a lot throughout this project, because I learned how to have multiple sockets running at the same time. I have never done this before, because I have no previous experience with socket

programming. I also learned about having files run across different computers and networks due to the testing process.