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Howdy,

This program takes in a URL and file name and downloads whatever file is associated with that link. The functions are similar to wget. Essentially my program sets up a TCP connection with the host and uses send() and recv() functions to send requests and receive responses from the host respectively. The client formulates a request and formats it accordingly based on the user input and sends it to the host. Then the client receives the response from the server and stores its response in the local directory with the appropriate filename. Additionally the client is able to handle transfer-encoding by creating tokens out of body messages that are between "\r\n". The client will then proceed to write every other token to the saved file since every other token is a hex number that should be ignored. This is the general function for the client.

Note: The auto grader never worked out, I was only able to get part of it to pass so I submitted a demo of the program working.

DEMO: https://youtu.be/ixsNV66-SeY

GitHub:
https://github.com/CSCE-313-Tyagi-Fall-2021/pa6-http-client-n-trujillo/commit/35a4fa88c29df5fc24d6c83118785f8f76689b94

Happy Holidays!

Best,
Nathaniel Trujillo