

# **UE Computer Networks - Application and Transport Layer**

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**Homework 2, due on Monday, Nov 9, 2021, 23 :59 CET**

## **1 Mirroring your browser requests**

Write a simple TCP program for a server that accepts lines of input from a client and prints the lines onto the server's standard output. (You can do that in the language you prefer). Compile and execute your program.

On any other machine that contains a Web browser (it can be the same machine), set the proxy server in the browser to the host that is running your server program; also configure the port number appropriately. Your browser should now send its GET request messages to your server, and your server should display the messages on its standard output.

- (1) Provide the code of your program.
- (2) With the help of screenshots, show how your program can mirror the web requests typed in your browser.
- (3) Provide a brief explanation to the different fields of a GET request.
- (4) Which of these fields should change by changing the browser/device? Rerun the experiment with different browsers and devices, plot the requests again and comment on the results.

The code + results are to be sent back to me by email in one single PDF file before the deadline shown in the title.