

# Http client

[Ugeopgave 1] \*

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## ABSTRACT

In this assignment we will be looking at how to implement a simple HTTP client, that will have a subset of the entire HTTP protocol. The HTTP client will still be able to communicate with servers

The rules about hierarchical headings discussed above for the body of the article are different in the appendices. In the **appendix** environment, the command

## 1. INTRODUCTION

I have written the HTTP client in python and you are able to run it from a terminal. In order to run it you need to write two commands i.e. `www.randomwebsite.com file-name`. The first part is the website you wish the client to send a **GET** request to and the second is the name the save-file should have.

The libraries I use are `socket` and `sys` in the HTTP client and in my parser I use `itertools` and `unittest`.

The function that I use to split my url is `stringToUrl(myurl)`, where the variable name `myurl` the string I wish to parse. I start with splitting after `'//'` and then I check whether the user have given me **HTTPS** as input. If this is true, then I raise an error and tell the user that **HTTPS** is not implemented and that they should use **HTTP** instead. After this I check the length of my list. If the length is greater than 1 then the user have written `http://www.example.com` but if the length is 1 then the user have written `www.example.com` and if this is true, then I add the **HTTP** for the user and insert both the scheme and netloc into a list.<sup>1</sup>

This HTTP client can do redirect if you should get an error code 30x. It will use recursion to find the new location.

If you should be able to get a status code 200, then the client will write to the filename the **GET** request.

## APPENDIX

### A. HEADINGS IN APPENDICES

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<sup>1</sup>The scheme is `'http'` where as the netloc is `'www.example.com'`

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