WEB PROGRAMMING

LABORATORY WORK #2

SELF-MADE BROWSER

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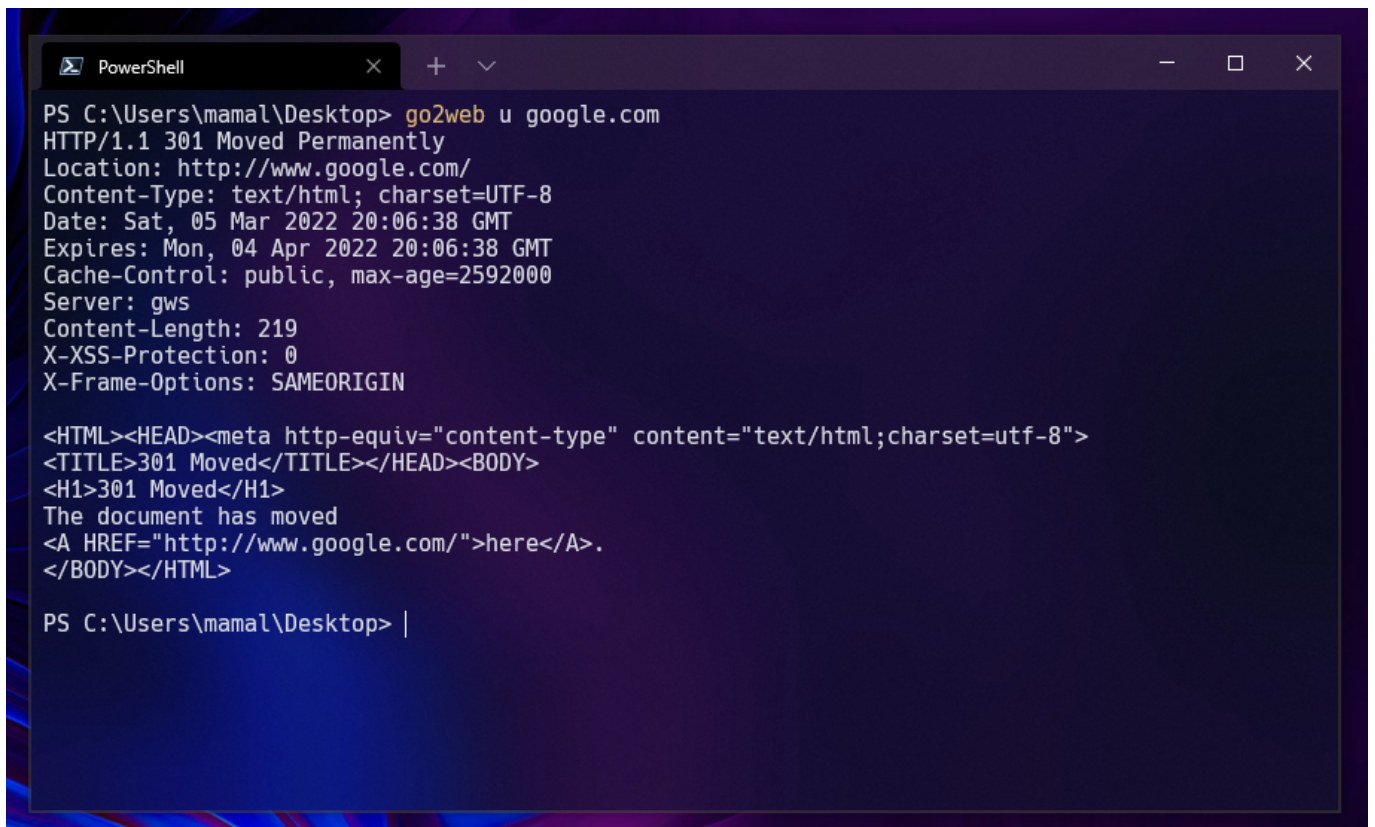Alexei ȘERȘUN

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1 Task

Your task for this lab is:

- You have to write a command line program, using [go2web](go2web) as a starting point;

- The responses from requets should be human-readable (e.g. no HTML tags in the output);

- The program should implement the following CLI:

  - go2web -u <URL> - make an HTTP request to URL and print the response;
  - go2web -s <search-term> - search the term using your favorite search engine and print top 10 results
  - go2web -h - show help

2 Results

I developed this laboratory work using node.js. To implement the CLI I usen commander.js which is a node.js module for creating command line interfaces. For making a get request to a URL I used the net module. To implement the command which searches for a term I used the serpstack api which gives me a JSON with results from google search engine.
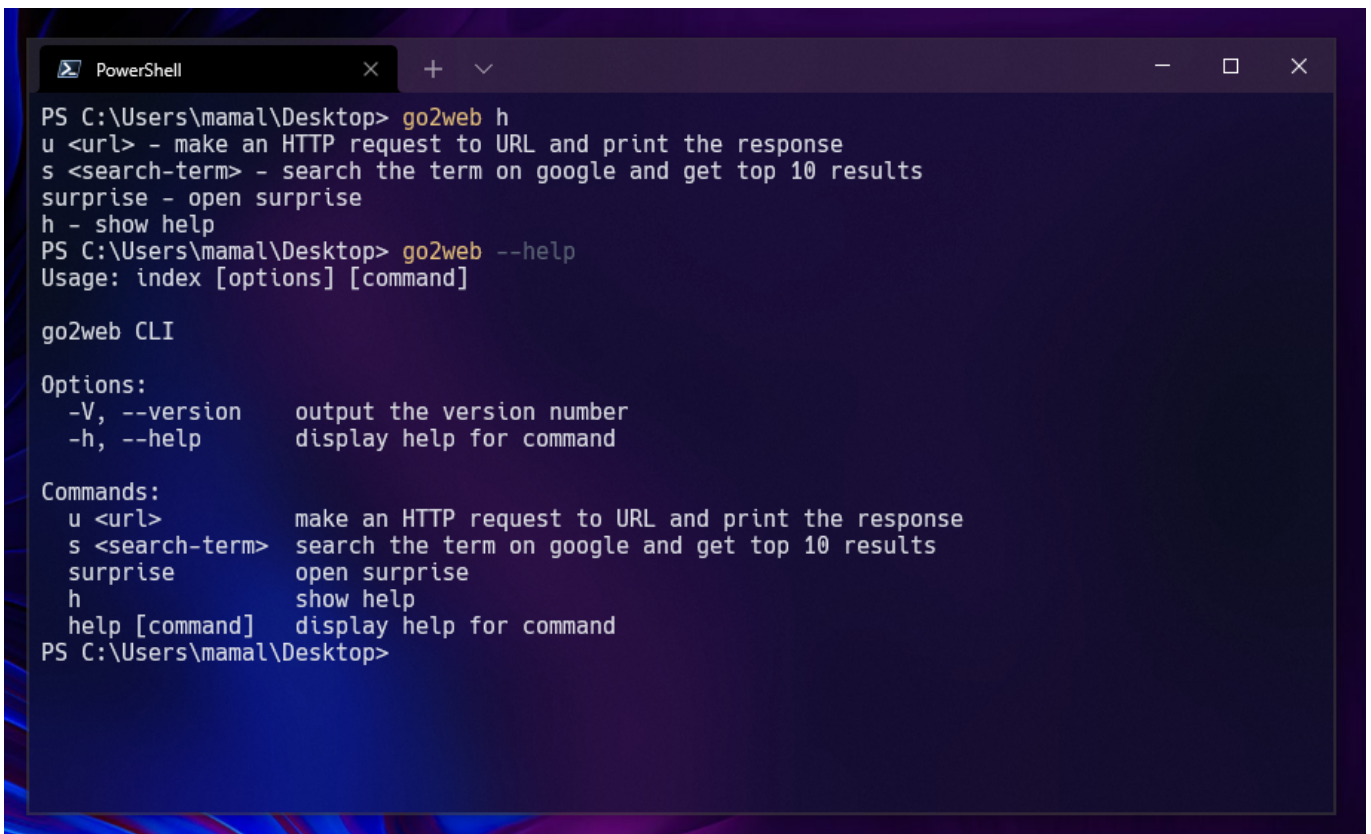

Here is an example of a GET http request to google.com. I did not use any libraries to pretty print the response body.

Here are some examples of the second command which searches for a term on google. The information about the searches is provided by the API, and here I gave up and I used axios module to make a GET request and get the JSON. After I got the information I choose only the links from the searches and logged them into the console. The links are also accessible using the CTRL key from the keyboard.

Below is the command which shows the information about all the other commands, but you can access this information with –help option from commander.js module.
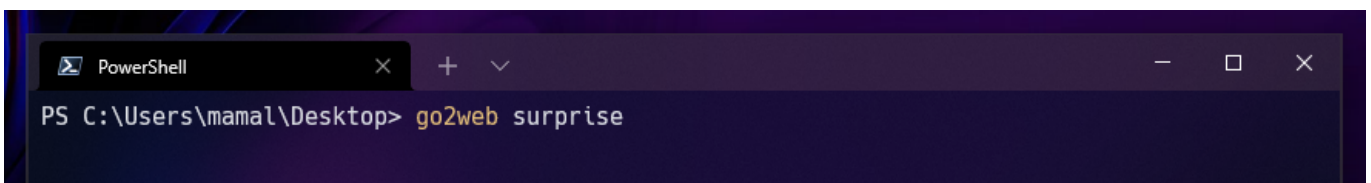

And lastly, the additional command "go2web surprise" which is a surprise command. A small hint if you want to save some time and not clone my repository locally. You can access my code here `https://github.com/Dunitrashuk/Lab2_PW` and go to index.js file/function surprise(). And then you will discover my surprise.

3   Conclusion

After implementing this laboratory work, I learned how to make a GET http request to an URL. I learned how to create a command line interface using commander.js and node.js. Also I practised with using an API and getting the data through a GET request with axios. Personally I found this laboratory work challenging because I did not had much past experience making http requests or implementing some back-end and also I found little support for net module. In the end, this is what I came up with and I know that there is still room for growth.