* Video with an explanation of tools which I am using here: <https://www.youtube.com/watch?v=1NrHkjlWVhM&t=458s>
* Preparing environment:
  + Install node js, mongodb and mongosh
  + Run command ‘npm i express mongoose ejs mssql msnodesqlv8 method-override dotenv @xenova/transformers bcrypt passport passport-local express-session express-flash’
  + In order to prepare mongodb database for this app use command ‘node db\_preparation/load\_tables\_list.js’
  + In order to prepare machine learning model for search engine use this command ‘py ml\_model/model\_preparation.py’ or ‘python ml\_model/model\_preparation.py’
  + In order to run server use command: ‘npm run devStart’, because in the file package.json there is written ‘scripts: {devStart: ‘nodemon server.js}’
  + In order to open the website in a browser use url ‘localhost:port\_number’.
* File ‘style.css’ is from bootstrap website. On this website you can check what styles are defined for different html elements
* In order to change a name of a website I need to open the file ‘C:\Windows\System32\drivers\etc\hosts’ (I can open it in Visual Studio Code) and write there in the last line:

‘ethernet\_ip website\_name’, where ethernet\_ip is the Ipv4 Address which can be found after typing ‘ipconfig’ in a command prompt:

A screenshot of a computer

Description automatically generated

for example:

’10.57.139.146 [www.db\_doc.com](http://www.db_doc.com)’

* We want to make the website listen to the port 80 (by using command ‘app.listen(80) in the ‘server.js’ file) in order to be able to access it by entering the url ‘db\_doc.com’ instead of ‘db\_doc.com:x’ where x is a port number.

In order to do this we need to open the cmd as an administrator, run command ‘NET stop HTTP’ and enter ‘y’ when we are asked ‘Do you want to continue this operation? (Y/N) [N]’. This will stop a few services: World Wide Web Publishing Service, SSDP Discovery, Print Spooler and HTTP. If we want to turn them on again we can do this in Task Manager > Services.