MEEC - ASInt
Laboratory 5
24/25 October 2017

Using the basic book library as a base, implement a site (**bookSite**) that presents in a web browser all possible data (books and authors).

Define and implement one URL for each resource:
- List of books
- List of authors
- Single books (using HTTP query ?bookid=1111)
- List of books of an author (using HTTP query ?author=aaaaaa)
- Creation of a book:
  - localhost:8080/createbook?author=aaaaaaa&title=tttttttt&year=yyyyyyy
- A form to search books by author and
- A form to create a new book
- Create a static page to link to the previous options

Bottle

In order to implement the web service use the **bottle** web framework:
- http://bottlepy.org/docs/dev/index.html
- http://bottlepy.org/docs/dev/tutorial.html#installation

Bottle installation:
- pip3 install --user bottle

or
- pip3 install bottle

Implement the routes to the various possible URIs using the **route()** decorator (follow http://bottlepy.org/docs/dev/tutorial.html):

```
from bottle import route, run

@route('/')
def hello():
    return "Hello World!"

run(host='localhost', port=8080, debug=True)
```

If a function returns a dictionary, bottle automatically transforms it into json and sends it to the client.

Observe the example in **example.py**. After running this python script it is possible to access the various URLs that are served by the bottle program:
- http://localhost:8080/
- http://localhost:8080/number/12
- http://localhost:8080/number/12ss
- http://localhost:8080/query?add=12
- http://localhost:8080/query
- http://localhost:8080/data