

MEEC - ASInt
Laboratory 7
11/11/2015

Download the book library and experiment with the provided links (run it in python2).

Observe the code of the various pages:

- /html/books
- /html/books/2
- /html/newbook
- /html/authors
- /html/authors/joao

This new version of the book database uses the webapp2. It follows the same philosophy of bottle, but will allow an easy integration into google Cloud platform:

- pip install webapp2
- pip install jinja2

Implement the following REST endpoints (just like in the previous week):

- /data/books
- /data/books/<b_id>
- /data/authors/<auth_id>/books
- /data/authors

These endpoints should return **json** (do not forget the content type!)

Observe the result in the browser (press F12 to use the developer tools)

Taking the existing code as starting point, implement the following functionalities:

1. on the page /html/books/<b_id>
 - implement the ranking functionality (the user clicks on one number and that value is sent to the server. The sent value is added to the votes (the votes on the page should be updated)
2. on the page /html/books/<b_id>
 - implement the update functionality
 - when the user click on update the information, the server updates the book with the new values typed in the fields
3. on the page /html/newbook
 - implement the post to use a REST webservice.

In all of the previous changes follow these steps

- on the browser
 - retrieve the input fields information and create a json representation
 - make a POST request to the corresponding services
 - after reception of the POST result, update the HTML
- on the server
 - register a new route (POST message)
 - retrieve the json representation from the message
 - insert the book on the database
 - send a response

Further information:

- <https://webapp2.readthedocs.io/en/latest/#tutorials>
 - <https://webapp2.readthedocs.io/en/latest/guide/request.html>
 - <https://webapp2.readthedocs.io/en/latest/guide/response.html>
 - https://webapp2.readthedocs.io/en/latest/api/webapp2_extras/json.html
 - https://webapp2.readthedocs.io/en/latest/api/webapp2_extras/jinja2.html
 - <http://jinja.pocoo.org/>
- <http://www.w3schools.com/ajax/default.asp>
- http://www.w3schools.com/js/js_json.asp
- http://www.w3schools.com/js/js_htmlDOM.asp