

**MEEC - ASInt**  
**Laboratory 6**  
**30/31 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).

Use the skeleton available on **lab6.zip** and implement the missing functionalities:

- URL for the creation of book, using GET and POST
- Page for the list of all books
- Form for the various book searches
- Form for the presentation of a book

## **Flask**

In order to implement the site/web pages use the **flask** web framework:

- <http://flask.pocoo.org/docs/1.0/installation/>

## **Supplied material**

The example available in the **Flask-example.zip** allows users using a browser to add strings to a simple store. Each string as a counter associated, whenever a string that was already available in the store is added an associated counter is incremented. User should study the code to understand how **flask** works.

The flask-example.zip and lab6.zip include two flask projects the can be loaded in the pycharm application: <https://www.jetbrains.com/pycharm/>

Students can apply to a full license if you register ate jetbrains with the e-mail of Técnico

## **Flask documentations**

The routes (url) of the various pages and forms are created using the route decorator/URL processors:

- <http://flask.pocoo.org/docs/1.0/patterns/urlprocessors/>
- <http://flask.pocoo.org/docs/1.0/quickstart/#routing>
- <http://flask.pocoo.org/docs/1.0/quickstart/#variable-rules>

The route can be configured for the various HTTP methods:

- <http://flask.pocoo.org/docs/1.0/quickstart/#http-methods>

The data submitted by the browser can be accessed in the request object:

- <http://flask.pocoo.org/docs/1.0/quickstart/#the-request-object>
- <http://flask.pocoo.org/docs/1.0/api/#flask.Request>

Static files can associated to routes using the **url\_for** method

- <http://flask.pocoo.org/docs/1.0/quickstart/#static-files>

In order to ease the return of complex pages built from python data, flask uses templates:

- <http://flask.pocoo.org/docs/1.0/quickstart/#rendering-templates>

Errors can be generated using the abort method:

- <http://flask.pocoo.org/docs/1.0/quickstart/#redirects-and-errors>