

Networked Systems Programming (A.Y. 2023/24)

Exercises (Lab) n. 11

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Exercise 11.1

Implement a Web application for managing an eShop for selling books. Assume to have two roles for this application: *customer* and *administrator*.

The former can perform the following actions:

- Get the full list of the books in the eShop
- Get the details of a specific book
- Submit an order for buying a book
- Get the detail of an order

The latter can perform the following actions:

Insert a new book in the catalogue of the eShop

Delete a book in the catalogue of the eShop

To implement the client, use HTML/JavaScript while the server-side logic is the one implemented with exercise 10.3. Consider the following steps for reaching the full implementation:

- Step1 (11.2): the application considers only the *customer* role without authentication. Data is transient (stored in memory);
- Step2 (11.3): the application uses two roles with two different pages for *customer* and *administrator*;
- Step3 (11.4): data is persistent (i.e. stored in a data base).

This exercise is optional. Its delivery before 15 January 2024 ensures a credit of 2 points.