

## WEB PROGRAMMING 2nd PROJECT

for this project i worked on Linux (ubuntu) using NetBeans IDE 7.2.1, I structured it with java servlets for the back-end of the application, JSP, Java Standard Tag Library, Javascript (jQuery), Twitter-Bootstrap (CSS) for the front-end and the system is based on a PostgreSQL database manager.

### Software Architecture:

I used java servlets communicating each other, through HttpServletRequest/Response and HttpSession, setting attribute to them to manage dynamically the streams of informations from the database and server to the user and viceversa. I used the session scope for saving data about the user so I can access from the entire application to these data, I used request (and response) scope to save "temporary" data about the various products ,loaded in the application, instead (e.g A the current session user wants to see the page of a specific product, so I fetch the corresponding data from the db and save it in the requestScope so i can dispatch the request to the page controller(servlet) or even to the page directly and from there with jsp and jstl technologies i recognize the product and display all it's infos). There are three html pages which are the login,signup and error pages and anything will change within themselves. For the dinamic pages I used mainly jstl library to take data from sessions and and requests and generate html based on this data.

For the form checks I used Javascript to check the user's inserted data and if an error rises these data will not be submitted to the server.

The security is made through java Filters that takes every kind of request and checks them redirecting on an error page in case of a trouble or let them pass otherwise.

The database poducts research is made with postgresQL regular expression and it works on each product's name and category text. The list of categories is dinamic to let the user create a non-existent category.

The download of the XLS file for the administrator of the app is allowed by using JXL library and the code create the file on the fly.

Used Libraries : JSTL, JXL, COM-OREILLY, JAVA-MAIL

Alex Pellegrini      mat:151711      30/01/2013