

## **FINAL PROJECT**

(For students who did not submit the homework)

Develop a web application with the following requirements:

The front end must be composed by an administration part and a final user part, with authentication-authorization (log in).

The Admin part must be developed with Servlets + JSP, using MVC, and comprises:

- User management (add/delete users)
- User monitoring (it must show in real time the users currently logged on, using a push approach).

The User part must be developed in Angular, with Ajax and routing.

CSS have to be used throughout the project.

The Business logic part must be developed using EJB in Wildfly, with a meaningful use of stateful, stateless beans and patterns. Data must be kept in an H2 DB, deployed as a network DB. There must be inheritance and relations in the DB data.

The Web part must run outside of Wildfly.

You can chose the domain you like (e.g. an on-line store, an on-line bank, a news system with premium features for registered users...)

IntelliJ projects for the various tiers and a populated database have to be delivered.

A report must be delivered, containing:

- overall description
- technical documentation (description of the main features, justification for the choices)
- screenshots documenting the working app
- instruction on how to install and execute it (make sure to describe all machine-dependent information, so that the project can be modified for running in a different environment).

The project must be delivered on Moodle at least three days before the exam