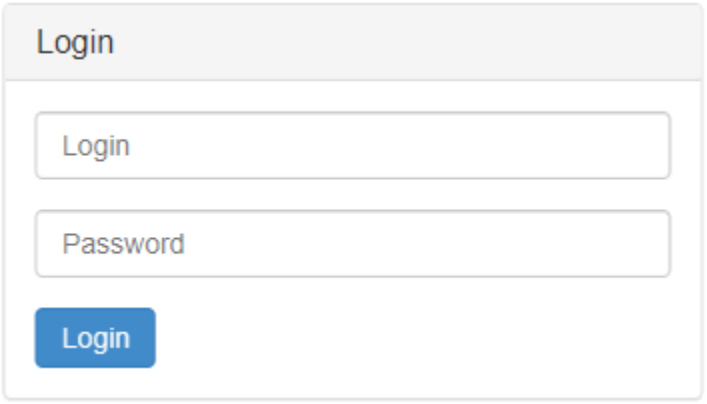
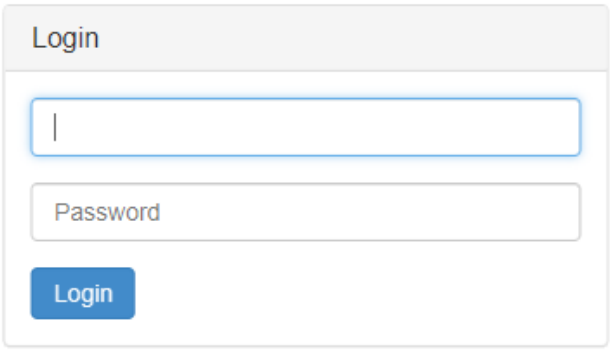
# Design and build an Employees Management Application

## LOGIN PAGE

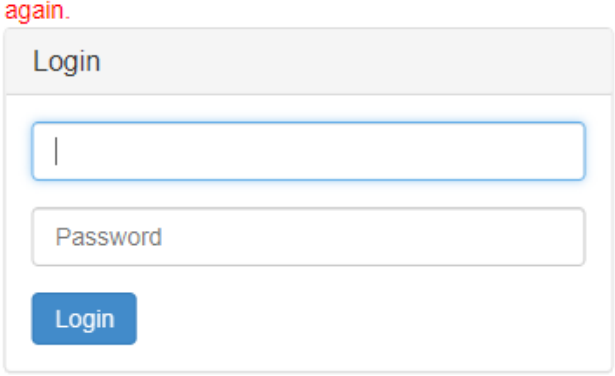



## ERROR CASES THAT YOU HAVE TO MANAGE

You must enter values in both fields




Connection failed! Verify your login/password and try again.



## EMPLOYEES LIST PAGE

List of Employees

| Sél | NAME | FIRST NAME | HOME PHONE | MOBILE PHONE | WORK PHONE | ADDRESS | POSTAL CODE | CITY | EMAIL |
|---|---|---|---|---|---|---|---|---|---|
| ○ | Jones | Indiana | 0145362787 | 0645362718 | 0611563477 | 10 rue des Aventuriers | 92270 | Bois-colombes | ijones@gmail.com |
| ○ | Bourne | Jason | 0187665987 | 0623334256 | 0654778654 | 65 rue Agent Secret Perdu | 92700 | Colombes | jbourne@yahoo.fr |
| ○ | Stark | Arya | 0187611987 | 0783334256 | 0658878654 | 6 rue Sans-Nom | 75016 | Paris | astark@nord.com |
| ○ | Lanister | Cersei | 0187384987 | 0622494256 | 0674178654 | 5 bvd des Reines | 21000 | Dijon | clanister@mail.co.uk |

Delete Details Add

1) A click on **Delete** will remove the selected employee from the database and will reload the updated list of employees
2) A selection of one employee and a click on **Details** will send the user to the Employee details page
3) A click on **Add** will redirect the user to an empty Employee details page
4) If you delete all the employees the following message is shown in red:

The company has no employee!

## EMPLOYEE DETAILS PAGE

Details of employee : Cersei Lanister

**Nom** Lanister

**Prénom** Cersei

**Tél dom** 0187384987

**Tél mob** 0622494256

**Tél pro** 0674178654

**Adresse** 5 bvd des Reines

**Code postal** 21000

**Ville** Dijon **Adresse e-mail** clanister@mail.co.uk

Save Cancel

1) A click on **Save** will update the information about the current employee and will redirect to the list page
2) A click on **Cancel** will redirect to the list page without updating information about the current employee

## GENERAL INSTRUCTIONS

1. Session management :
    - There are 2 categories of users :
        - Users with admin rights => login : admin password : admin
        - Regular employees => login : empl & password : empl
    - Users logged in as employees cannot delete, modifiy or add
    - Users with admin rights can do any action
    - Manage the user's session : the "login" action opens a standard Web session
    - On the upper right of each page (except 2 pages…) you'll show :
        - "`Hello <user> ! Your session is active`"
        - An icon ⏻ that allows the user to logout (leave the session)
        - Create a "Goodbye" page
2. Architecture & code structure roadmap :
    - Loose coupling
    - Separation of responsiblities
    - MVC compliant (at least for V1 & V2)
    - Unique servlet
    - Entry point = servlet
    - Variables : Declaration => global / Initialization => local
    - Elegant and efficient management of exceptions
3. Documentation :
    - Javadoc style
    - As much useful comments as possible in your code
4. Database:
    - Name : **JEEPRJ**
    - User: **jee**
    - Password: **jee**

## WHAT IS EXPECTED ?

1) A readme.txt file with:
    - A link to your remote *repositories*
    - Specific eventual instructions to launch your application : I don't ~~want~~ have to guess how your application works.

2) The source code of your application (to be shared on a distant code repository). 3 versions are expected:
    **a) Version 1** *(6 pts)*
        - JSP (scriptlets accepted) + Java Beans + Servlet + JDBC
        - *.properties* file to store information about the database
        - SQL script in /WEB-INF
        - All the JSPs in /WEB-INF
        - DBMS : Java DB

    **b) Version 2** *(8 pts)*
        - Maven project
        - JSP (EL et JSTL **only**/ Please no Java code in your JSPs)
        - Java Beans
        - Servlet (optimized)
        - Persistance with JPA
        - DBMS : MySQL

**c) Version 3** (6 pts)

Like V2 except for :

- Use **RESTful Web services**
- DBMS : A remote solution
- Code quality: use Sonarqube & JUnit

3) Bonus (+1 each)
   - Deploy on a Cloud platform (OpenShift or AWS or..)
   - Any exceptional surprise in terms of architecture, elegant design and

4) *Notice: You may use any IDE (NetBeans, Eclipse, IntelliJ IDEA, and so on..). Just indicate which IDE you've used in the readme.txt.*

## EVALUATION CRITERIA

1. Compliance with the instructions above
2. Your autonomy
3. Your active participation in your group's work / Your presence during the project sessions
4. Quality of your code

## DEADLINE

**12 /11/ 2019** @ 23:55

## PRESENTATIONS

**19/11/2019**