Great Intern Follow-up Tool (GIFT)

YOUR GOAL :

Build a JEE Web Application that will help intern tutors track the milestones of the students they follow during their internship.

FEATURES

Assumption
The users of this application are the intern tutors (on the school side).
Each tutor has a login and a password.
In your prototype, be prepared to demonstrate the behavior of your solution with two different supervisors (of your choice).

A login screen will restrict access to the application.
The following input errors shall be managed with matching blocking error messages:

- Empty field(s)
- Invalid credentials.

Each tutor only has access to the interns assigned to them.
Once logged in and for the duration of the session, the user will see the header of all his pages: `[First name] [Last name] | Log out`
Clicking “Log out” will let the user exit the application.

Show the list of all the interns of the current year.
Show the details of a selected intern (an example is shared in the last section of this document).
Add a new intern
Remove an intern

Propose a solution to manage as many columns as possible from the Excel model on the next page.

There should be a search field where one can search using: keywords, names, company.

All fields should be editable.

UNLEASH YOUR CREATIVITY!

You may suggest ideas for the layout and design of the pages but :

a) Your idea must comply with the requirements
b) It must be practical, simple, and user friendly
c) The navigation must be intuitive

Please note that I consistently reward special surprises regarding architecture, elegant design, and good practices.

MAIN SCREEN

If the login is successful, the screen displays the list of interns supervised by the logged user.

Below is the existing Excel file for doing the same task.
Please design a Web interface that will at least help manage the same level of information.
Keep in mind that more actions can be possible in your solution.

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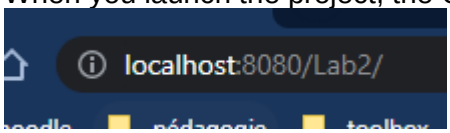
INSTRUCTIONS

1. **Clean code**: please refer to the documents in the "Clean code" folder on Moodle.
2. **Design / Implementation / Documentation** :
   - ✓ Build system: use Maven or Gradle.
   - ✓ Persistence API: you must use JPA.
   - ✓ All the JSPs must be in the /WEB-INF folder.
   - ✓ Session management: the "login" action opens a standard Web session.
   - ✓ When you launch the project, the URL should be as simple as this :

   - ✓ Mix `web.xml` instructions and annotations in the servlet(s)
   - ✓ The entry point of the application must be a servlet.
   - ✓ You can use as many servlets as you wish.
   - ✓ Implement Restful Web services (JAX-RS) at least once in your solution.
   - ✓ You can use one or more of the following frameworks: Spring Boot, Spring MVC, Hibernate,…[Any framework you want].

3. **Database**:
   a. Use Docker compose to automate the creation and initialization of your database.
   b. Use any RDBMS of your choice (MySQL, MariaDB, PostgreSQL,…)

4. **Deployment:**
   Deploy your solution on a Cloud platform. As a result, a simple URL will be enough to run your application.

5. **Video**
   a. Create a short (10 mins max) video with the tool of your choice presenting your solution.
   b. Make a short presentation of your project files, indicating which files belong to which layer of the MVC pattern (or neither one of the layers).
   c. Make a demo of your solution (don't forget to indicate the test credentials to test your solution.
   d. In the video, you must answer the following questions :
      - ✓ What do you think is unique, original, and creative in your solution? It is something you think the teacher needs to focus on when evaluating your work.
      - ✓ What part was the most difficult to implement? And why?
      - ✓ How did everyone in the group contribute?
      - ✓ What are the three most important things you got from this project?

DELIVERABLES

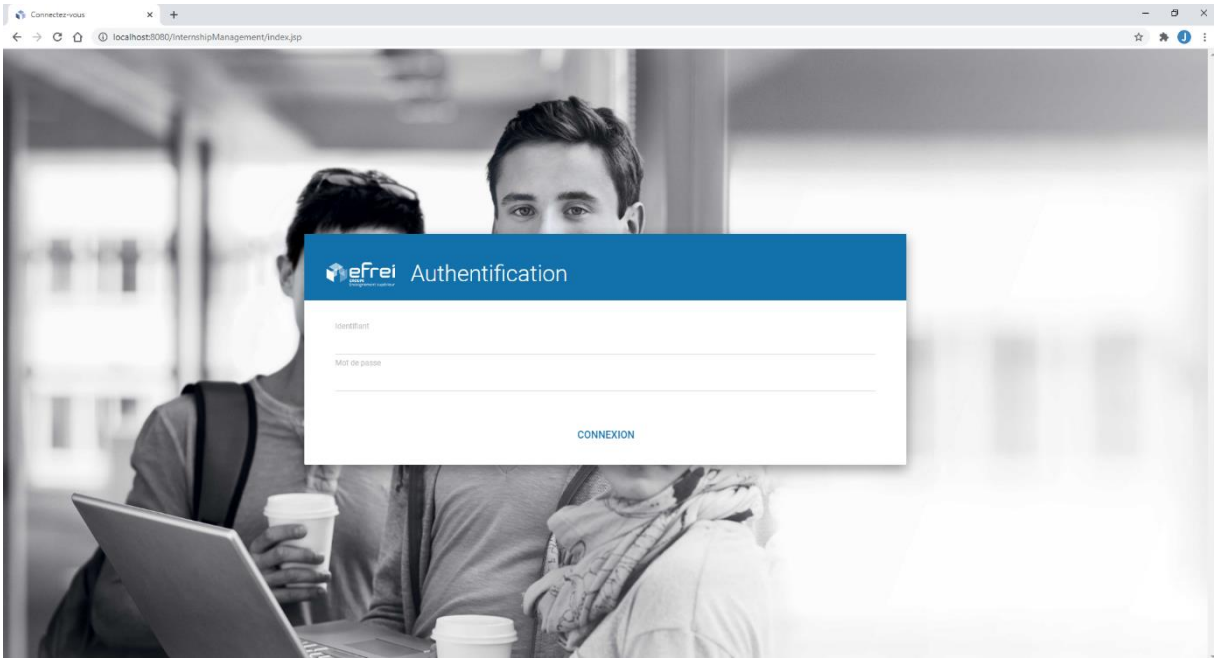
1. A **readme** file (*.txt, *.md,..) containing the following:
   a. A link to your remote repositories (GitHub or GitLab or...)
   b. The URL of your deployed solution
   c. A link to your video
2. A Docker compose file
3. [Optional] The **SQL script** to initialize your database

DEADLINE

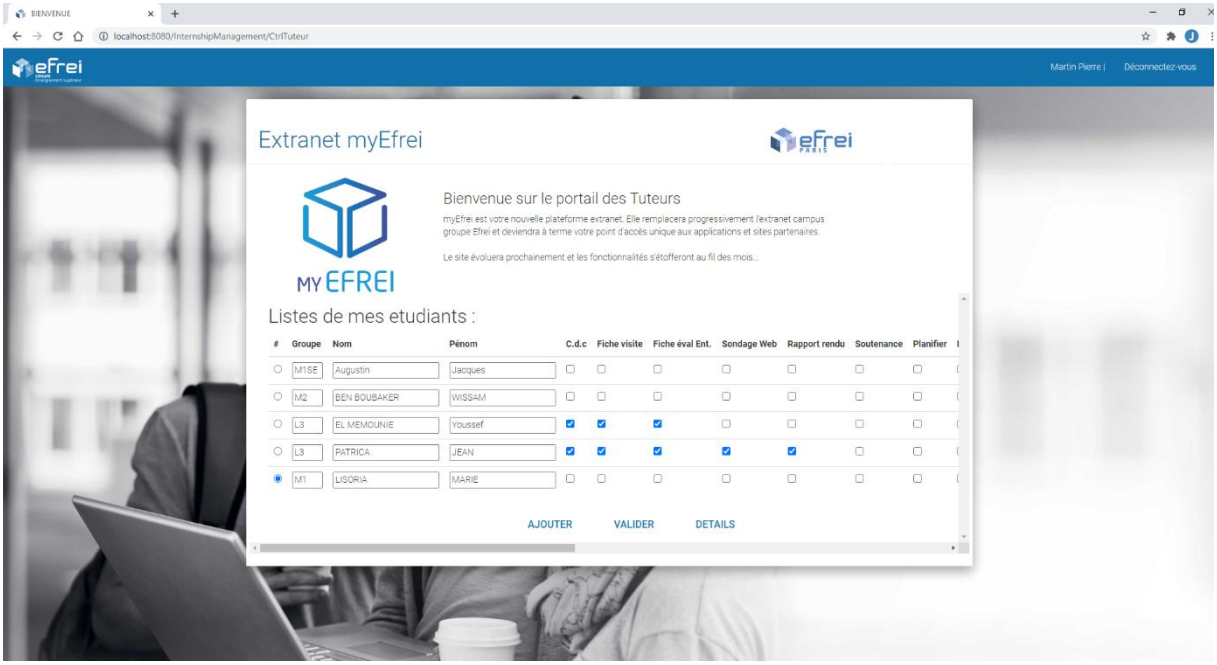
12/03/2023 @ 23:55

APPENDIX: FOOD FOR YOUR CREATIVITY

1. Login screen



2. Main screen



3. Details screen