Maxime Bourgeois
&
Julien Fink

IOS 1

Report Project 1 : Dynamic Web Application

Here is our report for the first project of the year in JavaEE & Frameworks :

I. Enumerate the classes and the web files that you used

We have used a lot of classes and servlets in this project in order to separate things for clarity and to respect the **MVC Pattern**.

Maxime and I have created 4 classes to declare some objetcs : **Profile, ProfileDBUtil, ToDoList** and **ToDoDBUtil** :

- **Profile** has been used to stock students and instructors in our programm.

- **ProfileDBUtil** was used to link eclipse to the SQL database in order to login students/instructor in the project.

- **ToDoList** declares lists describing different homeworks given by the instructor.

- Lastly, **ToDoDBUtil** picks up the todos in the database created by the instructor.

The project is also composed of 4 servlets used to navigate through the web files and to run the code within the web pages: **Register**, **InstructorModifications**, **LogOut** and **WebControllerServlet**

- **WebControllerServlet** launches the project and redirects to the login_page so that the user can enter his informations (username and password).

- **Register** gets the pieces of information filed by the user on the welcome page - username and password – and checks, using functions from the **AccountDBUtil** class, if this account exists or not. Depending if the user is in the database or not, Register class redirects to LogOut page is there is an error or else to student/instructor page.

- **InstructorModifications** allow to do two things, firstly, add a new task (new row) in the ToDo List and, secondly, save the data in the database and update the page.

- **LogOut** allow to go to the register page by clicking on the LogOut button

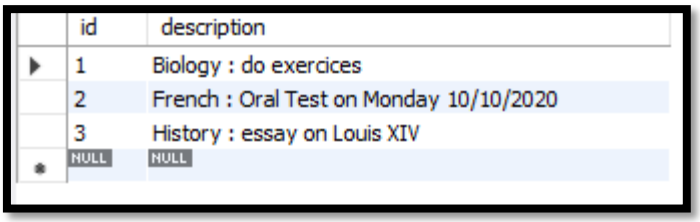
Maxime Bourgeois
&
Julien Fink

Finally, we created some web files : **login_page**, **student_page**, **instructor_page**, **error_page**. These files are used to gather usernames and passwords from the user and display the web page content.

II. Database structure

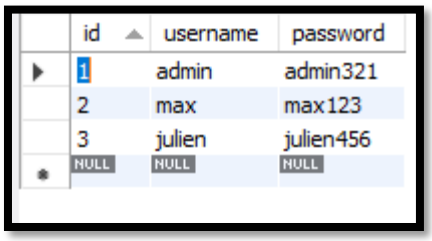
web_todo_list_db is composed of 2 tables logins and **todo_list** and **logins.**

Todo_list allow to display content on the ToDo List page. It contains two columns id and description.



id	description
1	Biology : do exercices
2	French : Oral Test on Monday 10/10/2020
3	History : essay on Louis XIV
NULL	NULL

Logins allow users to connect to the next page by storing all users data. It contains three columns id, username, password.



id	username	password
1	admin	admin321
2	max	max123
3	julien	julien456
NULL	NULL	NULL

III. The functionalities that you succeed to do and those that you didn't succeed.b

Functionalities Done

Log in the website thanks to username and password
Login with a wrong user : An error page is displayed
Login as a teacher : Welcome message (session data) + updatable todo list

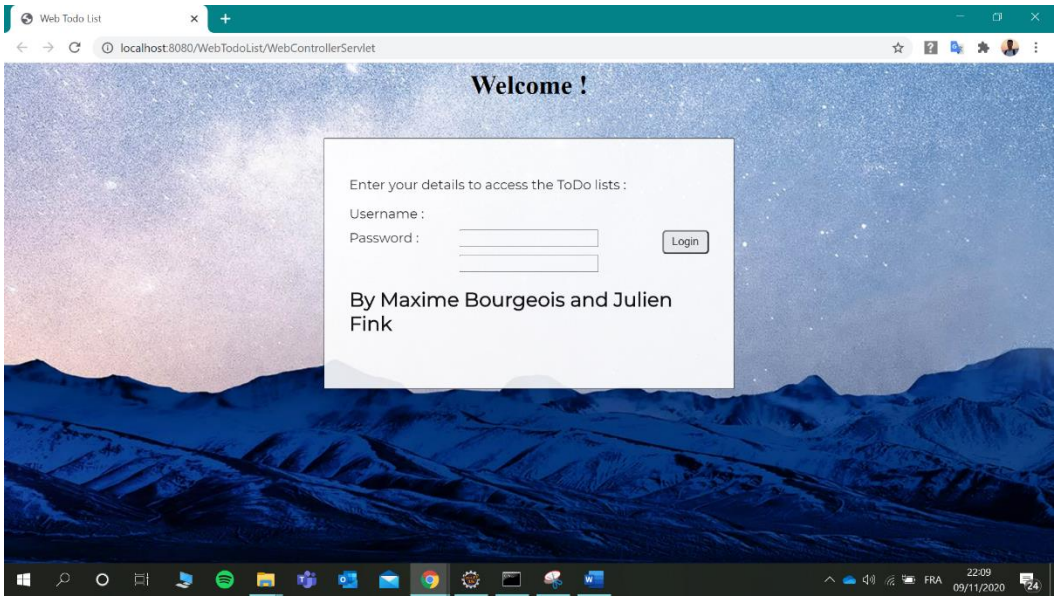
Add a todo : cancel is allowed by keeping a field empty, this will disappear when you click on save button
Update a todo : change all you want into the fields, then click save. If a field is empty it will disappear
Delete a todo : keep the field empty and save or refresh the page without saving
Logout : click on LogOut Button when it's possible
Login as a student : Welcome message (session data) + non updatable todo list

Functionalities that didn't succeed

Url constrains : if you put the url of adding/updating a todo file in the url, access is not denied.
Cookies encryption: if you go to the cookie list in your browser, you can see the password

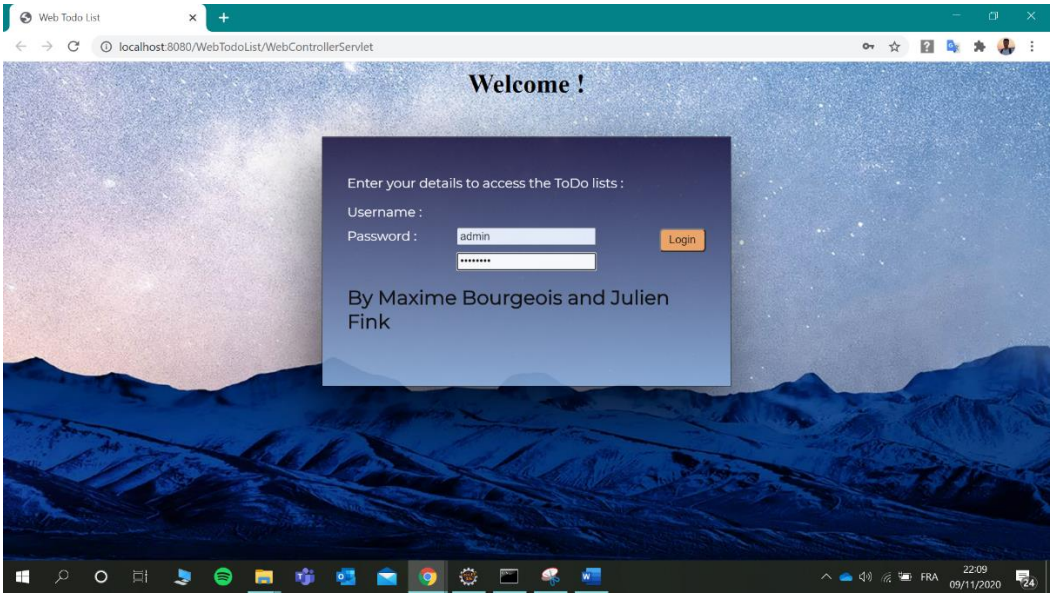
IV. Complete execution screenshots

First connection : just a welcome message (you will understand later why we point this).

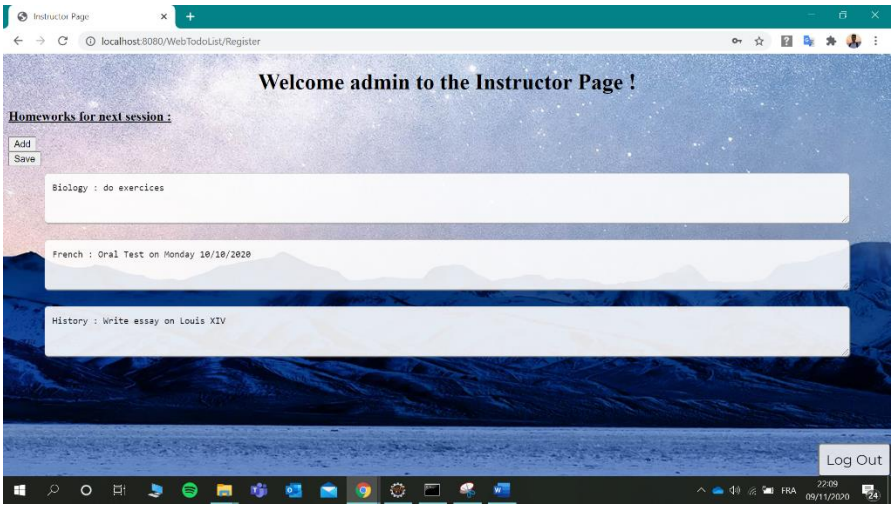


Then, enter your details, and click Login.

Maxime Bourgeois
&
Julien Fink

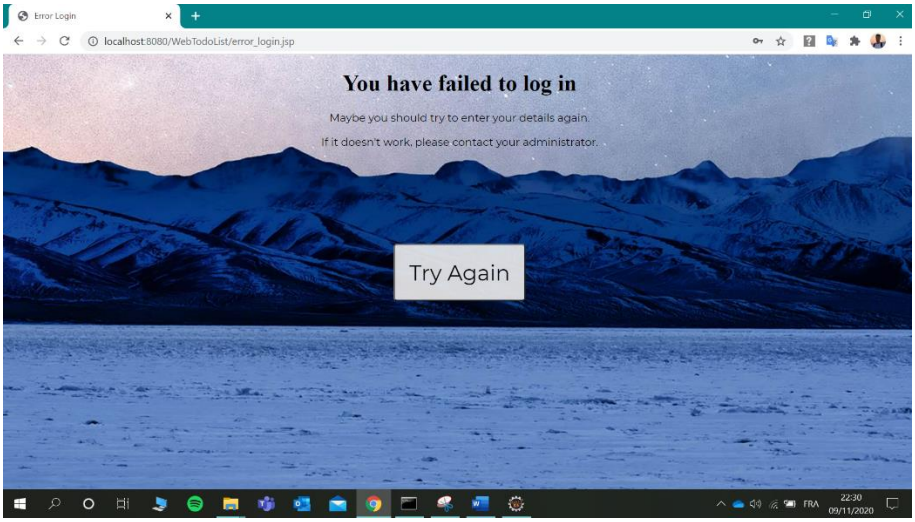


If your details are correct and if you are and instructor, you get the instructor page.

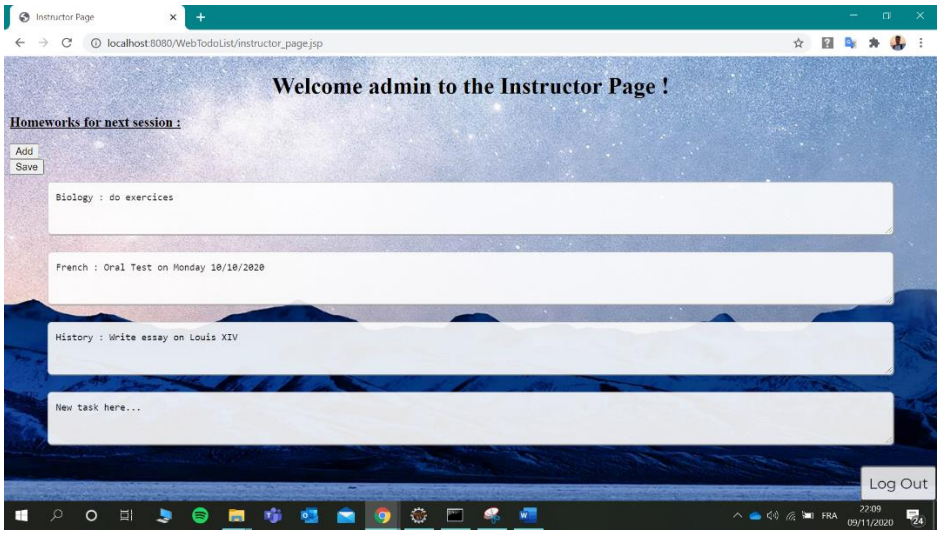


Otherwise, you get error page which invite you to return to the Register page.

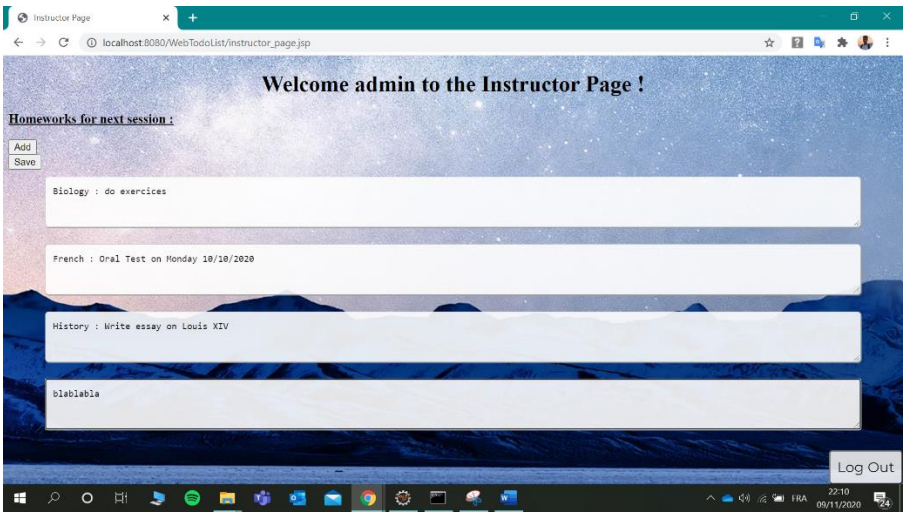
Maxime Bourgeois
&
Julien Fink



You can add a task by clicking on Add button.

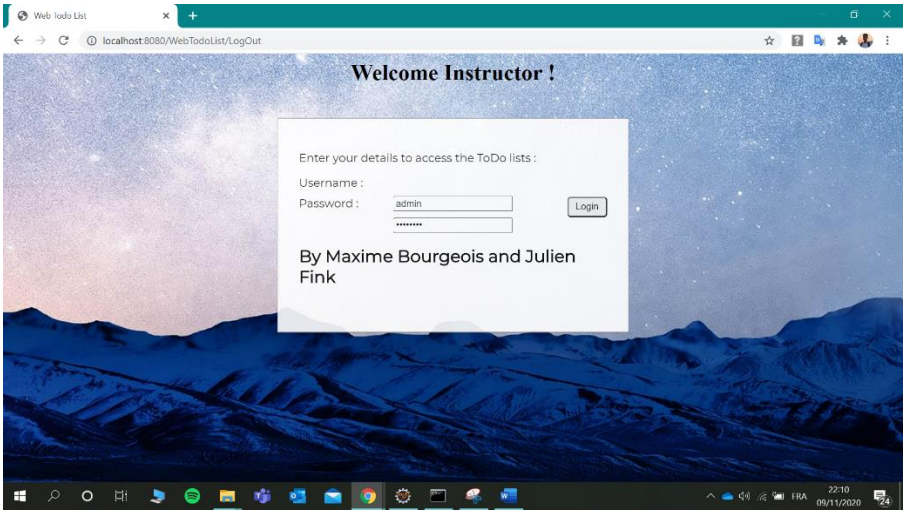


You can edit and save it by clicking on Save button.

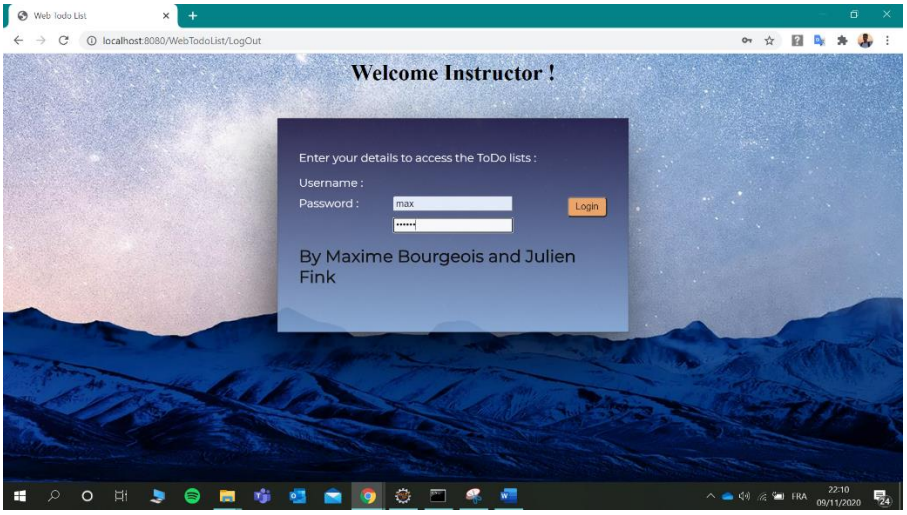


Finally Logout. Look, cookies data allow you to display “welcome Instructor” and keep field values.

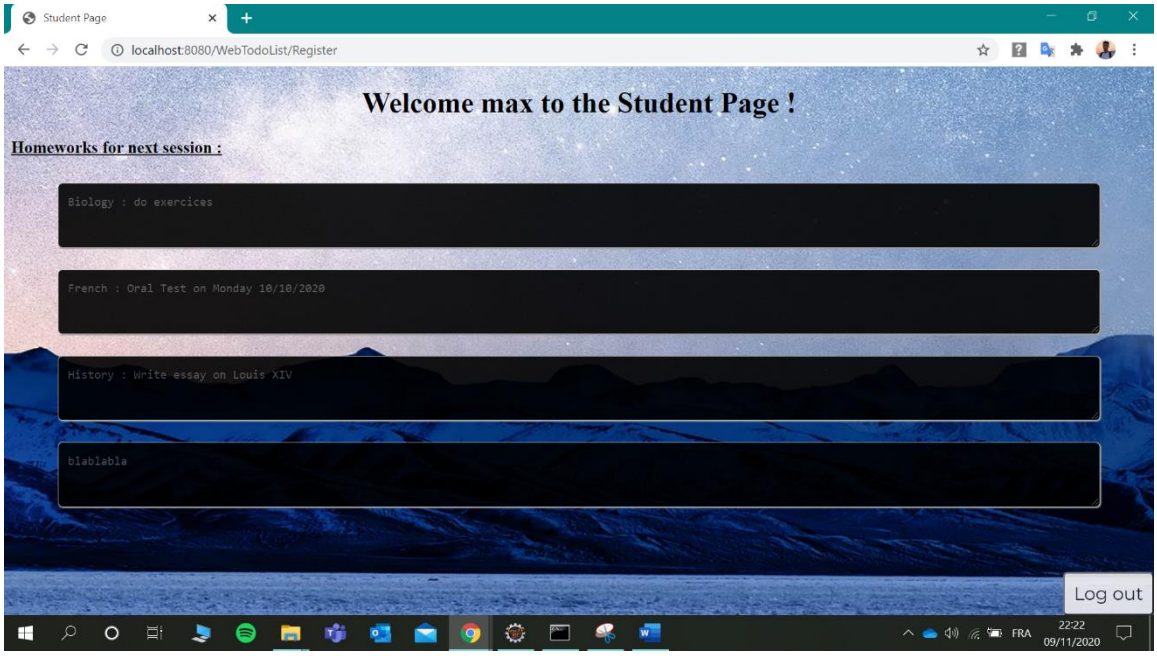
Maxime Bourgeois
&
Julien Fink



Now, you can connect you as student user.



You can see the welcome message and uneditable tasks.



Finally, logout. New details are put into fields.