



ÉCOLE  
D'INGÉNIEURS  
PARIS-LA DÉFENSE

# Java EE and frameworks

Project n°4:

Web Student Book JSF + JPA

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# General

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## Database structure

The database named « studentdb » is composed of one table. This table is the student table and has some attributes. An index (id), a firstname (firstname), a lastname (lastname), and email address (email).

So we create the table :

```
CREATE TABLE student(  
id INT NOT NULL PRIMARY KEY auto_increment,  
firstName varchar(40),  
lastName varchar(40),  
email varchar(40)  
)
```

example:

```
INSERT INTO student (firstName, lastName, email) values ( 'augustin', 'de la taille',  
'adelataille@gmail.com");
```

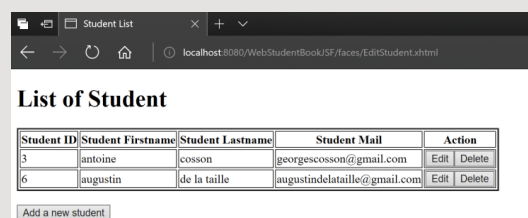
## Website structure

the structure of this website is very simple because it only has one student data. ON must therefore have a page that allows the identification of the user and then a page that displays the list of students. Then one page per function of management of the database; add, edit, delete.

# Pages

---

## Student List

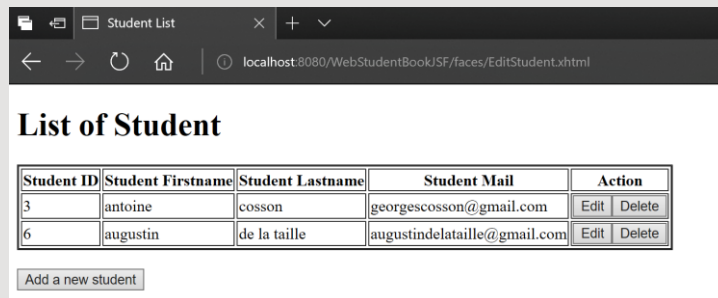


Student ID	Student Firstname	Student Lastname	Student Mail	Action
3	antoine	cosson	georgescosson@gmail.com	Edit Delete
6	augustin	de la taille	augustindelataille@gmail.com	Edit Delete

Add a new student

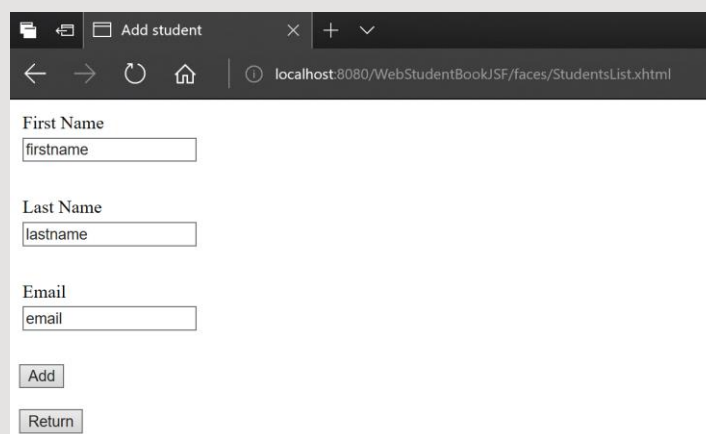
## Add a Student profil

When you would add a new student you click on the bottom button



Student ID	Student Firstname	Student Lastname	Student Mail	Action
3	antoine	cosson	georgescosson@gmail.com	Edit Delete
6	augustin	de la taille	augustindelataille@gmail.com	Edit Delete

Add a new student



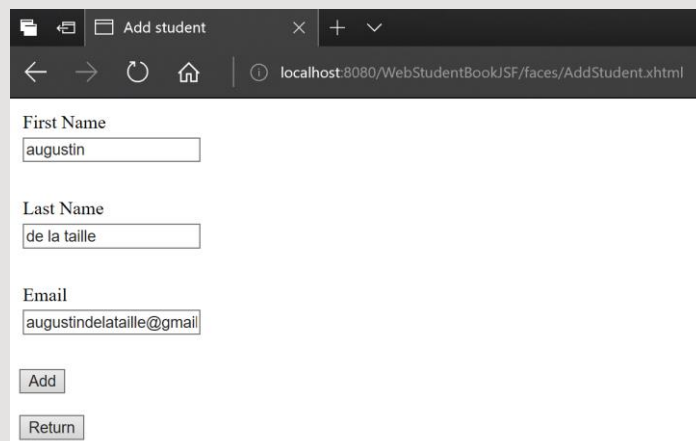
First Name  
firstname

Last Name  
lastname

Email  
email

Add

Return



First Name  
augustin

Last Name  
de la taille

Email  
augustindelataille@gmail

Add

Return

And with verification

Web browser window showing the "Add student" form. The form has three input fields: "First Name" (containing 'a'), "Last Name" (containing 'd'), and "Email" (containing 'augustingmail.com'). Below each field is a red error message: "first name should contain at least 2 letters", "last name should contain at least 2 letters", and "email should contain a @". At the bottom are "Add" and "Return" buttons.

When you return on the list page

Web browser window showing the "Student List" page. The page title is "List of Student". It displays a table with 5 rows and 5 columns: Student ID, Student Firstname, Student Lastname, Student Mail, and Action. The Action column contains "Edit" and "Delete" buttons for each row. Below the table is an "Add new student" button.

Student ID	Student Firstname	Student Lastname	Student Mail	Action
3	georges	cosson	georgescosson@gmail.com	Edit Delete
4	aaa	aaa	a@gmail.com	Edit Delete
5	aaa	aaa	a@gmail.com	Edit Delete

## Edit Student profil

Web browser window showing the "Edit Student" form. The form has three input fields: "First Name" (containing 'g'), "Last Name" (containing 'c'), and "Email" (containing 'georgescosson@gmail.com'). Below each field is a red error message: "first name should contain at least 2 letters", "last name should contain at least 2 letters", and "email should contain a @". At the bottom are "Save" and "Return" buttons.

And with verifivation

Web browser window showing the "Edit Student" form after successful verification. The form has three input fields: "First Name" (containing 'georges'), "Last Name" (containing 'cosson'), and "Email" (containing 'georgescosson@gmail.c'). At the bottom are "Save" and "Return" buttons.

## Remove Student profil

Student List

localhost:8080/WebStudentBookJSF/faces/StudentsList.xhtml

### List of Student

Student ID	Student Firstname	Student Lastname	Student Mail	Action
3	georges	cosson	georgescosson@gmail.com	Edit Delete
4	aaa	aaa	a@gmail.com	Edit Delete
6	augustin	de la taille	augustindelataille@gmail.com	Edit Delete

Add a new student

Student List

localhost:8080/WebStudentBookJSF/faces/StudentsList.xhtml

### List of Student

Student ID	Student Firstname	Student Lastname	Student Mail	Action
3	georges	cosson	georgescosson@gmail.com	Edit Delete
4	aaa	aaa	a@gmail.com	Edit Delete
5	aaa	aaa	a@gmail.com	Edit Delete

Add a new student

Student List

localhost:8080/WebStudentBookJSF/faces/StudentsList.xhtml

### List of Student

Student ID	Student Firstname	Student Lastname	Student Mail	Action
3	georges	cosson	georgescosson@gmail.com	Edit Delete
6	augustin	de la taille	augustindelataille@gmail.com	Edit Delete

Add a new student