



Université Abdelmalek Essadi

Faculté des Sciences et Techniques - Tanger

Département Génie Informatique

JEE: Lab 4

Réaliser par:

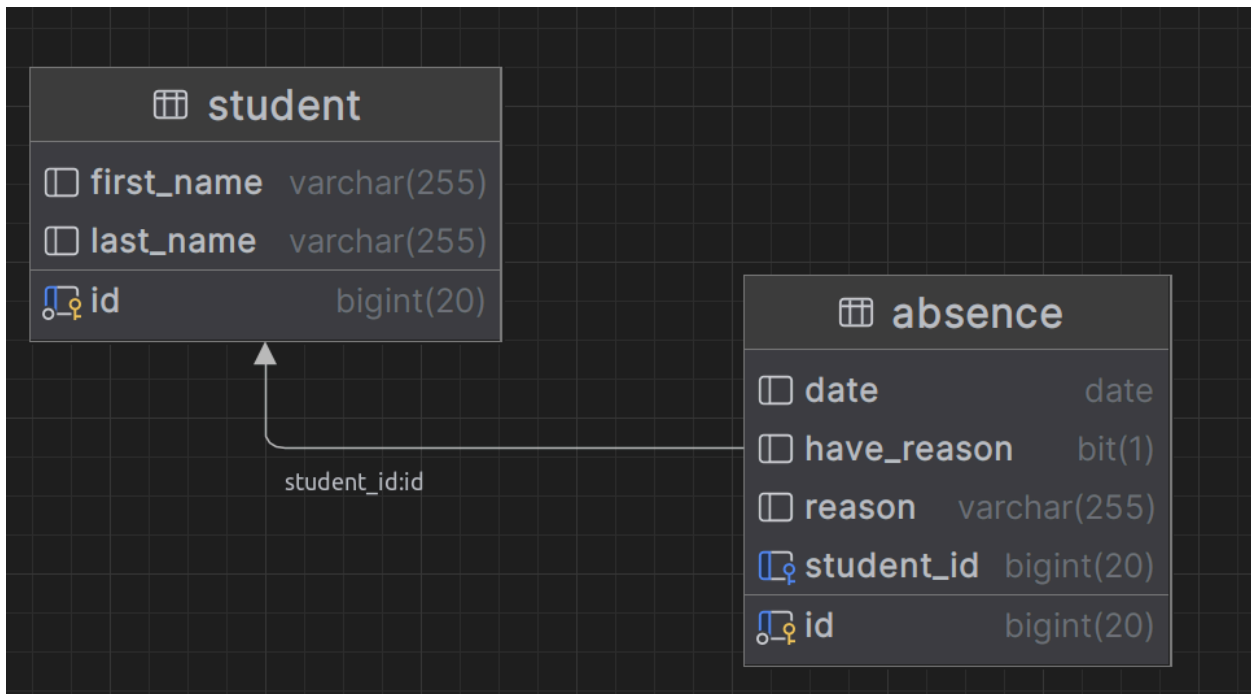
El Houssine KHALIL

Structure backend : JDK 21

```
khalil@archlinux [08:23:34 PM] [~/IdeaProjects/CodePractice/SpringBoot/lab4] [main *]
-> % tree src/main/java/com/lsi/lab4/
src/main/java/com/lsi/lab4/
├── controller
│   ├── request
│   │   ├── AbsenceRequest.java
│   │   └── StudentRequest.java
│   └── StudentController.java
├── CorsConfig.java
├── entity
│   ├── Absence.java
│   └── Student.java
├── Lab4Application.java
├── repository
│   ├── AbsenceRepository.java
│   └── StudentRepository.java
└── service
    ├── AbsenceService.java
    └── StudentService.java

6 directories, 11 files
```

Diagram de classe:



Structure Frontend

```
src
├── app
│   ├── app.component.html
│   ├── app.component.scss
│   ├── app.component.spec.ts
│   ├── app.component.ts
│   ├── app.config.ts
│   ├── app.routes.ts
│   ├── comp
│   │   ├── add-absence
│   │   │   ├── add-absence.component.html
│   │   │   ├── add-absence.component.spec.ts
│   │   │   └── add-absence.component.ts
│   │   ├── add-student
│   │   │   ├── add-student.component.html
│   │   │   ├── add-student.component.spec.ts
│   │   │   └── add-student.component.ts
│   │   ├── list-absence-of-student
│   │   │   ├── list-absence-of-student.component.html
│   │   │   ├── list-absence-of-student.component.spec.ts
│   │   │   └── list-absence-of-student.component.ts
│   │   └── studentslist
│   │       ├── studentslist.component.html
│   │       ├── studentslist.component.spec.ts
│   │       └── studentslist.component.ts
│   ├── interface
│   │   ├── Absence.ts
│   │   └── Student.ts
│   ├── service
│   │   ├── students.service.spec.ts
│   │   └── students.service.ts
│   └── environments
│       ├── environment.development.ts
│       └── environment.ts
├── index.html
├── main.ts
└── styles.scss
```

10 directories, 27 files

Front End Service pour appeler le backend

```
// Fetch all students
getStudents(): Observable<Student[]> {
  return this.http.get<Student[]>(this.baseUrlStudent);
}

// Fetch a specific student by ID
getStudentById(studentId: number): Observable<Student> {
  return this.http.get<Student>(`${this.baseUrlStudent}/${studentId}`);
}

// Fetch absences for a specific student
getStudentAbsences(studentId: number): Observable<Absence[]> {
  return
this.http.get<Absence[]>(`${this.baseUrlStudent}/${studentId}/absences`);
}

// Create a new student
createStudent(student: Student): Observable<Student> {
  return this.http.post<Student>(this.baseUrlStudent, student);
}

// Update a student
updateStudent(studentId: number, student: Student): Observable<Student> {
  return this.http.put<Student>(`${this.baseUrlStudent}/${studentId}`,
student);
}

// Delete a student
deleteStudent(studentId: number): Observable<void> {
  return this.http.delete<void>(`${this.baseUrlStudent}/${studentId}`);
}

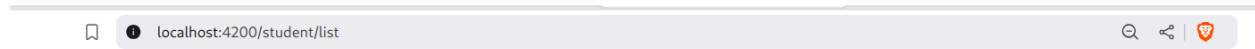
// Create a new absence for a specific student
createAbsence(studentId: number, absence: Absence): Observable<Absence> {
  return
this.http.post<Absence>(`${this.baseUrlStudent}/${studentId}/absences`,
absence);
}

// Fetch all absences
getAllAbsence(): Observable<Absence[]> {
  return this.http.get<Absence[]>(this.baseUrlAbsence);
}

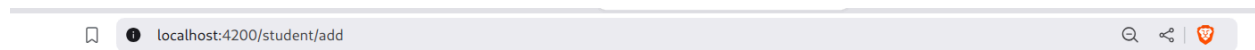
// Delete a student
deleteAbsence(absenceId: number): Observable<void> {
```

```
return this.http.delete<void>(`${this.baseUrlAbsence}/${absenceId}`);
}
```

Screenshots:



#	First Name	Last Name	Absence Count		
1	khalil	El Houssine	4	Show Absence	Add Absence
2	mehdi	id lahcen	1	Show Absence	Add Absence
3	Hodaifa	chfani	0	Show Absence	Add Absence



Add New Student

First Name

Last Name

Add Student



back to List

List of Absences

ID	Date	Reason Given	Reason	action
2	2024-12-25	No	N/A	Delete
3	2024-12-21	No	i am the owner	Delete
4	2024-12-16	No	illnes	Delete
5	5002-04-05	No	N/A	Delete

localhost:4200/student/1/absences

back to List

List of Absences

ID	Date			action
2	2024-12-25			Delete
3	2024-12-21	No	i am the owner	Delete
4	2024-12-16	No	illnes	Delete
5	5002-04-05	No	N/A	Delete

localhost:4200 says
WARNING: Are you sure you want to delete the absence with ID 2?

CancelOK

localhost:4200/student/absences/add/1

back to List

Add Absence

Date

12/14/2024

☒ Has a reason

Reason

il est malade

Add Absence

Exemple de reponse: <http://localhost:8080/api/students/1/absences>

```
[
  {
    "id": 2,
    "date": "2024-12-25",
    "haveReason": false,
    "reason": null
  },
  {
    "id": 3,
    "date": "2024-12-21",
    "haveReason": true,
    "reason": "i am the owner "
  }
]
```