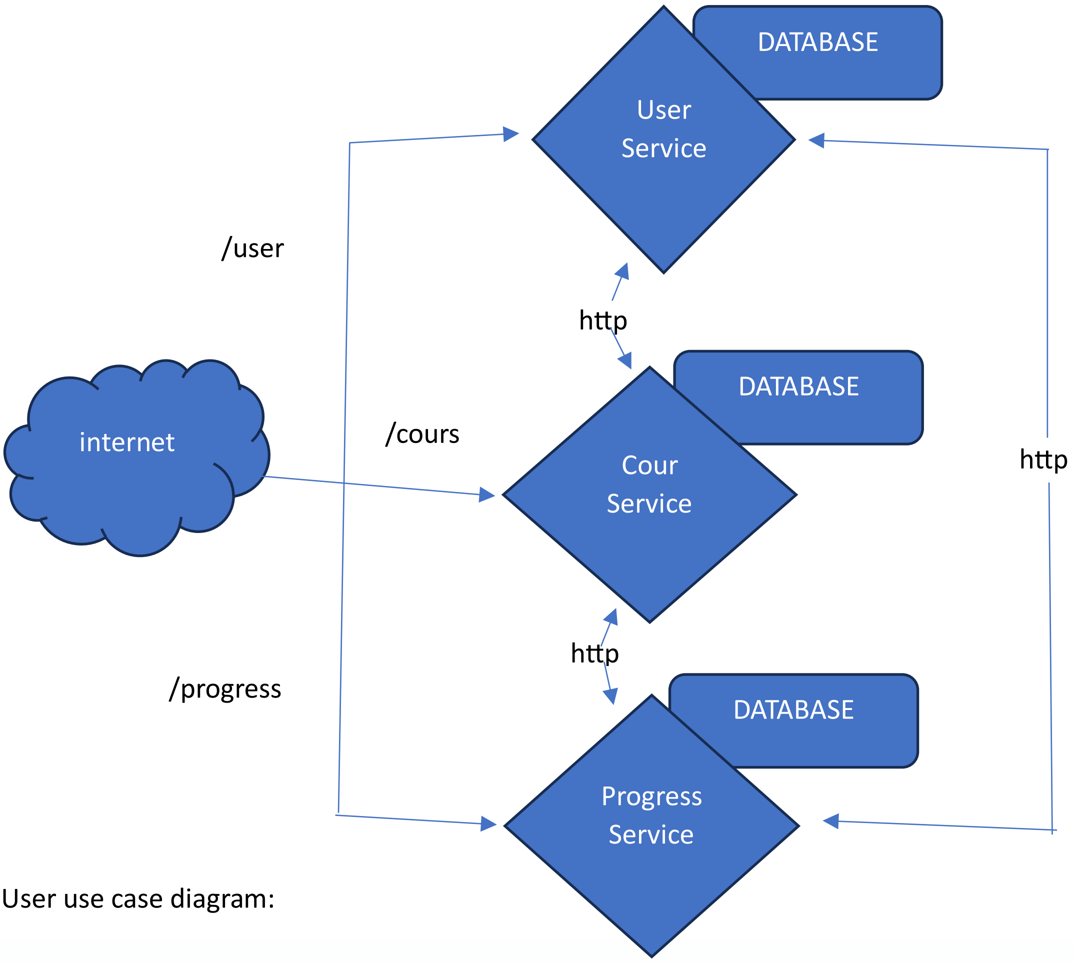
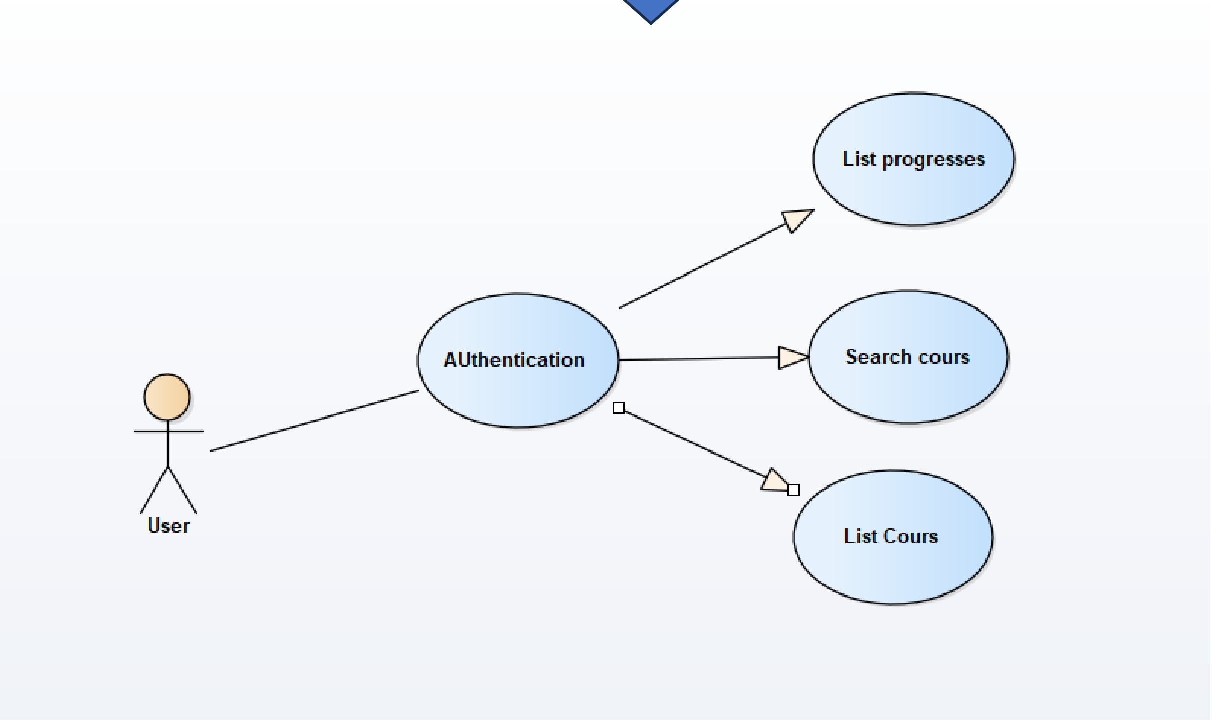
AMS TP (EL BADRI ACHRAF)

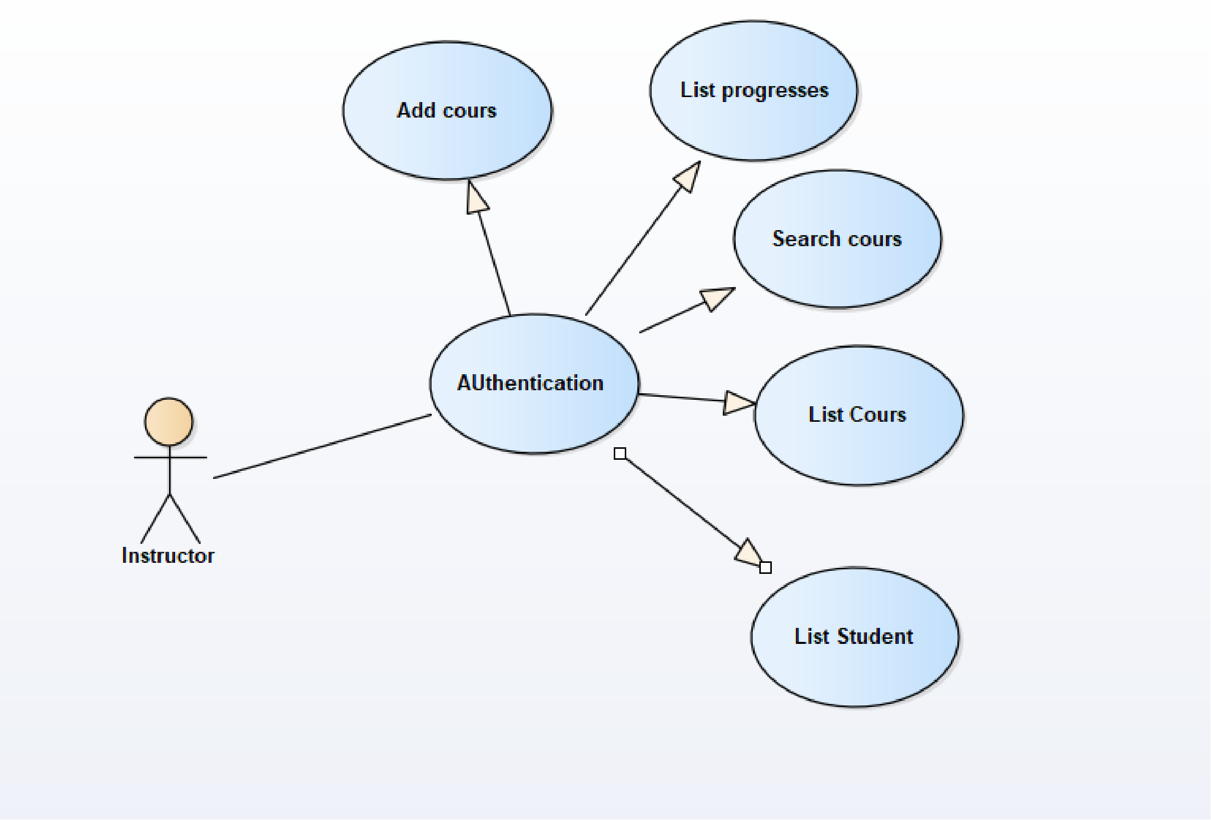
Diagram of the microservice:



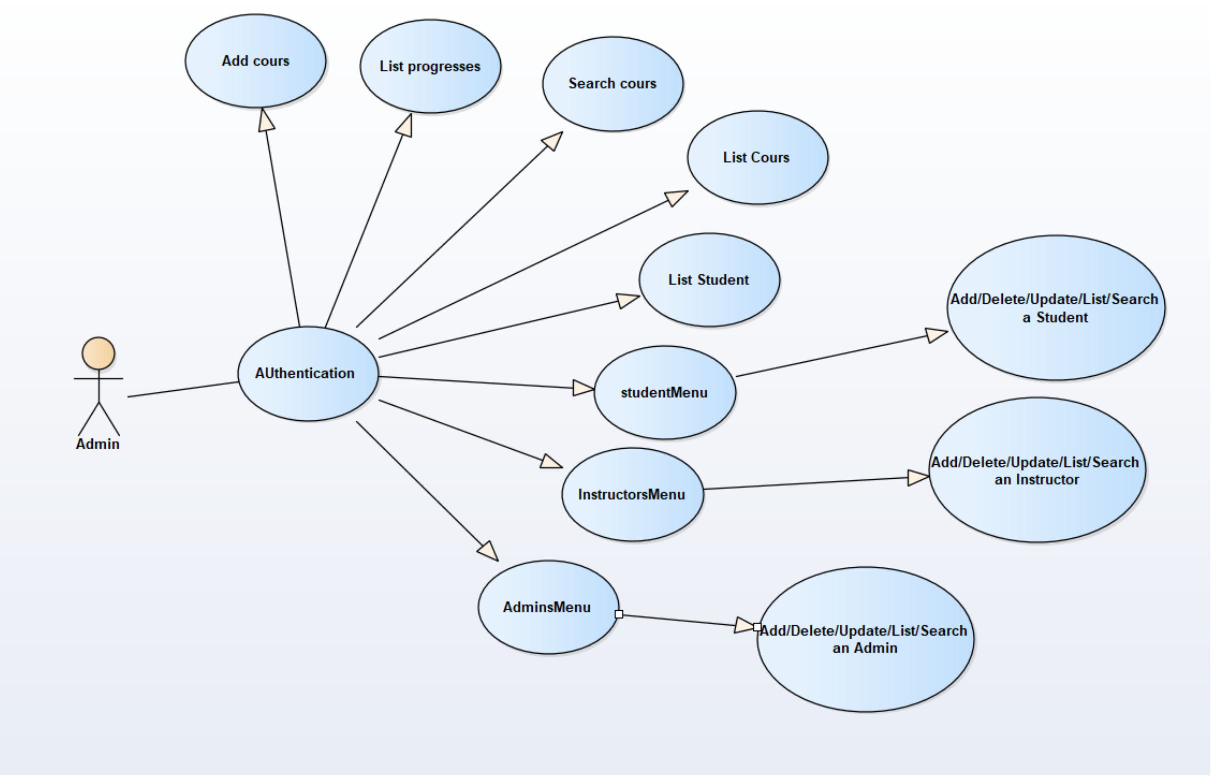
User use case diagram:



Instructor use case diagram:



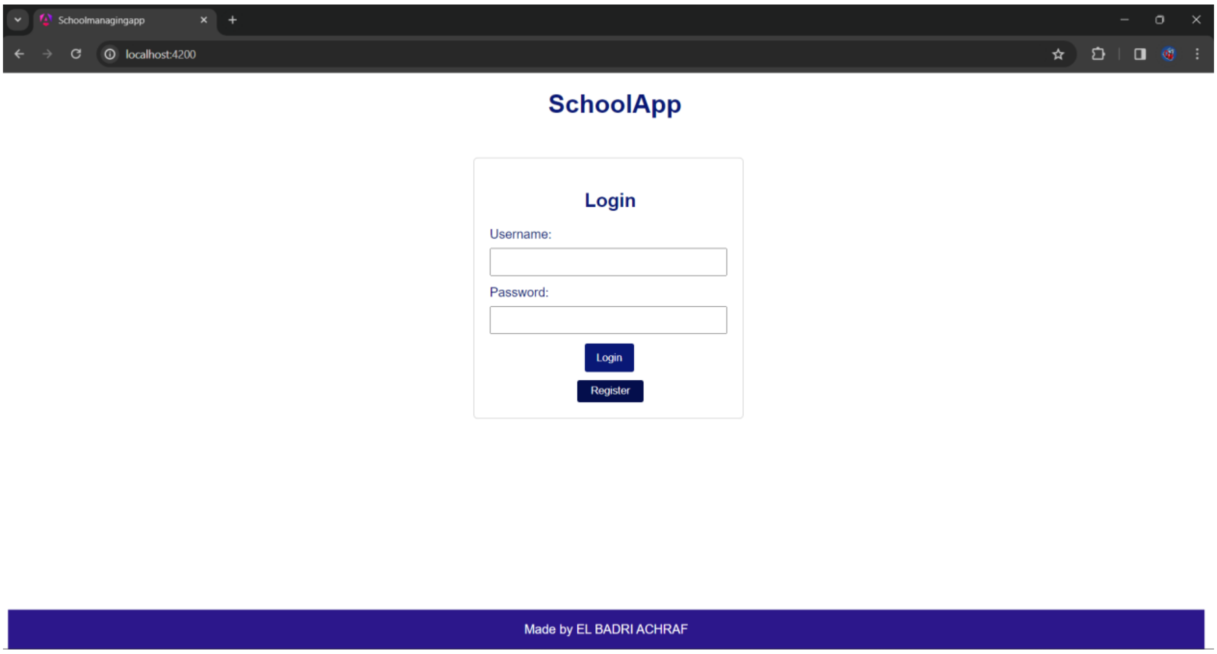
Admin use case diagram:


Add cours
List progresses
Search cours
List Cours
List Student
Add/Delete/Update/List/Search a Student
Admin
AUthentication
studentMenu
InstructorsMenu
Add/Delete/Update/List/Search an Instructor
AdminsMenu
Add/Delete/Update/List/Search an Admin

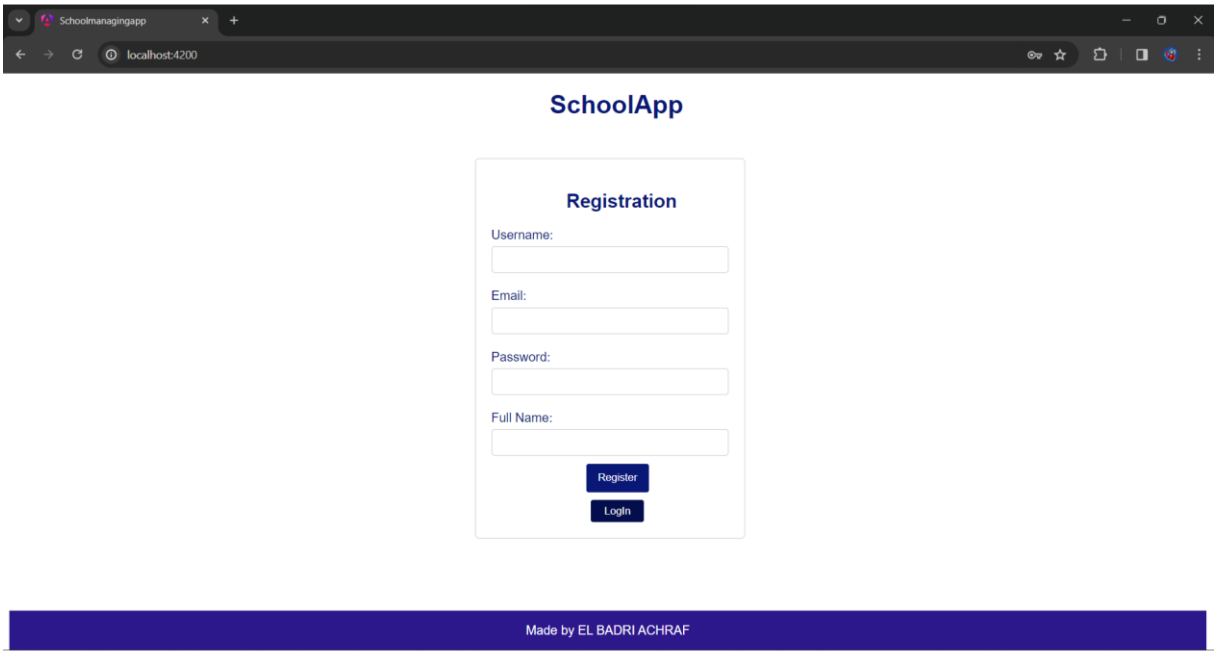
Angular/Spring boot Web Application:

Authentification:

Login Interface:



Registration interface:



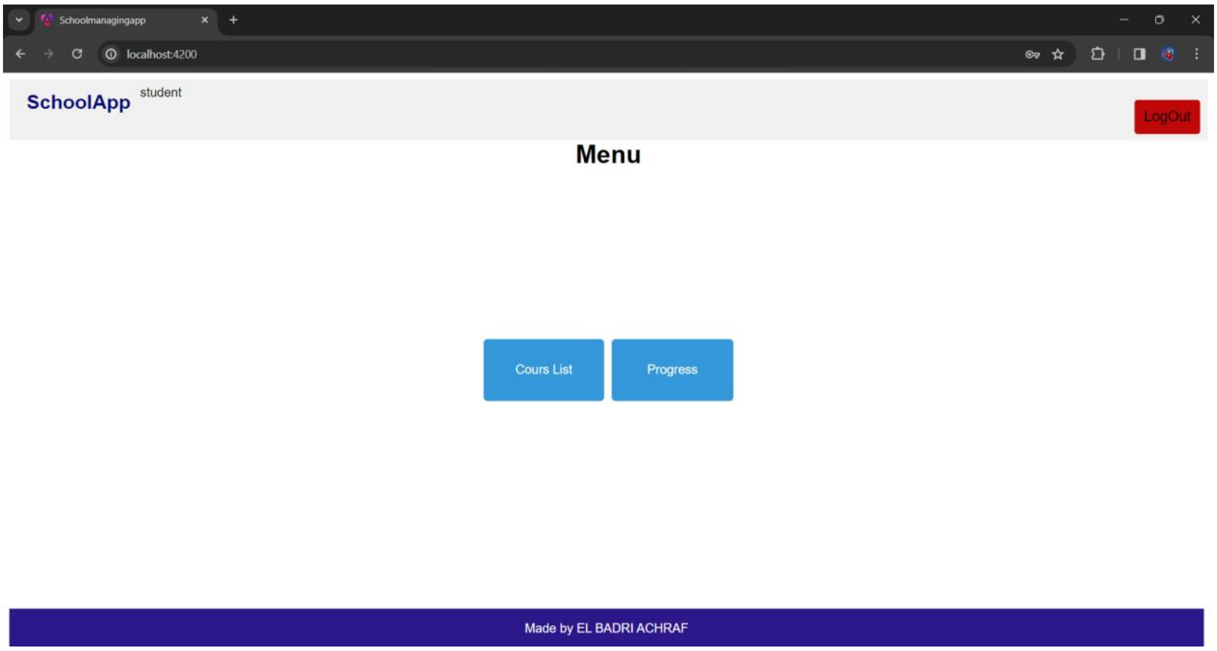
There are 3 possible users: a student, instructor or an admin.

The student can search and list courses, and he can also check his progresses.

The instructor can search, list and add courses and he can check modules and only list student.

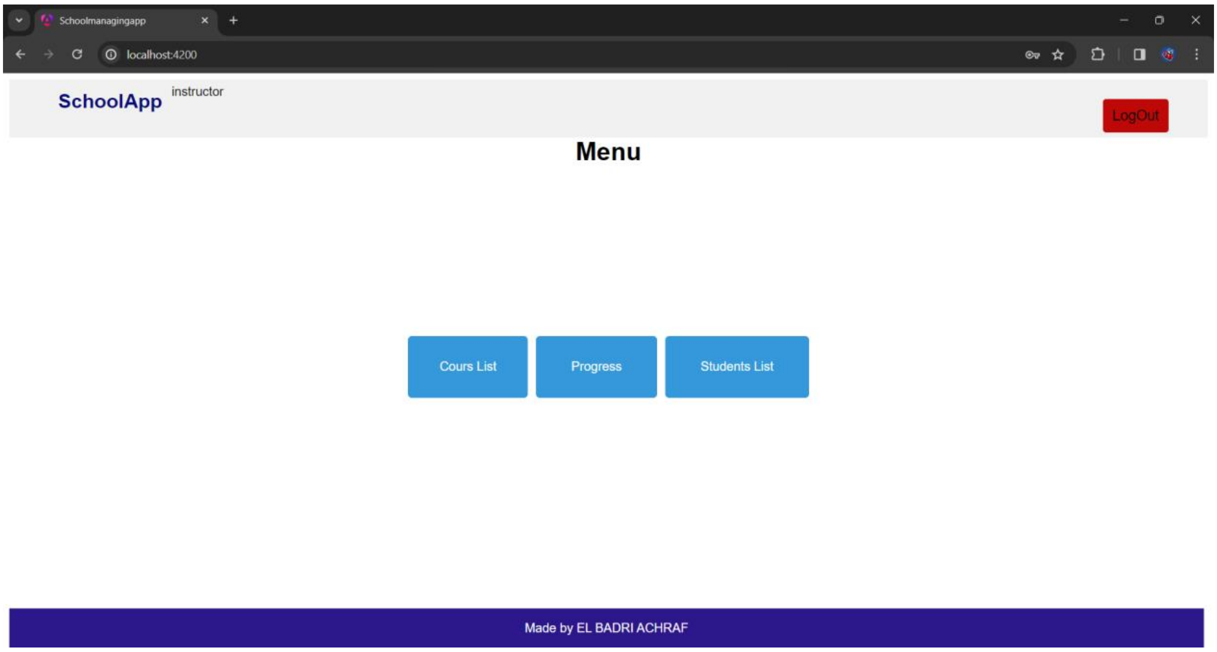
The admin can search, list and add courses, he can check modules, list, add, delete students, list, add, delete instructors, list, add, delete admins.

Student interface:



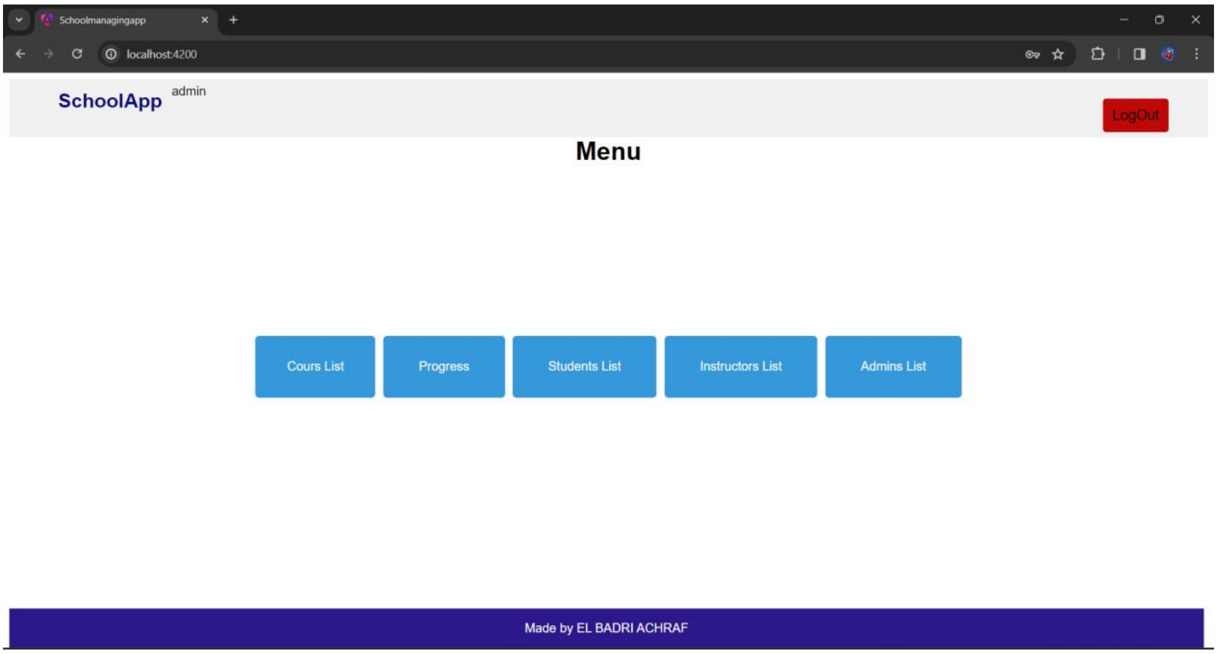
The student can List and search courses or List the his progress.

Instructor interface:



The instructor can List, search, add courses or List progress or list students.

Admin interface:

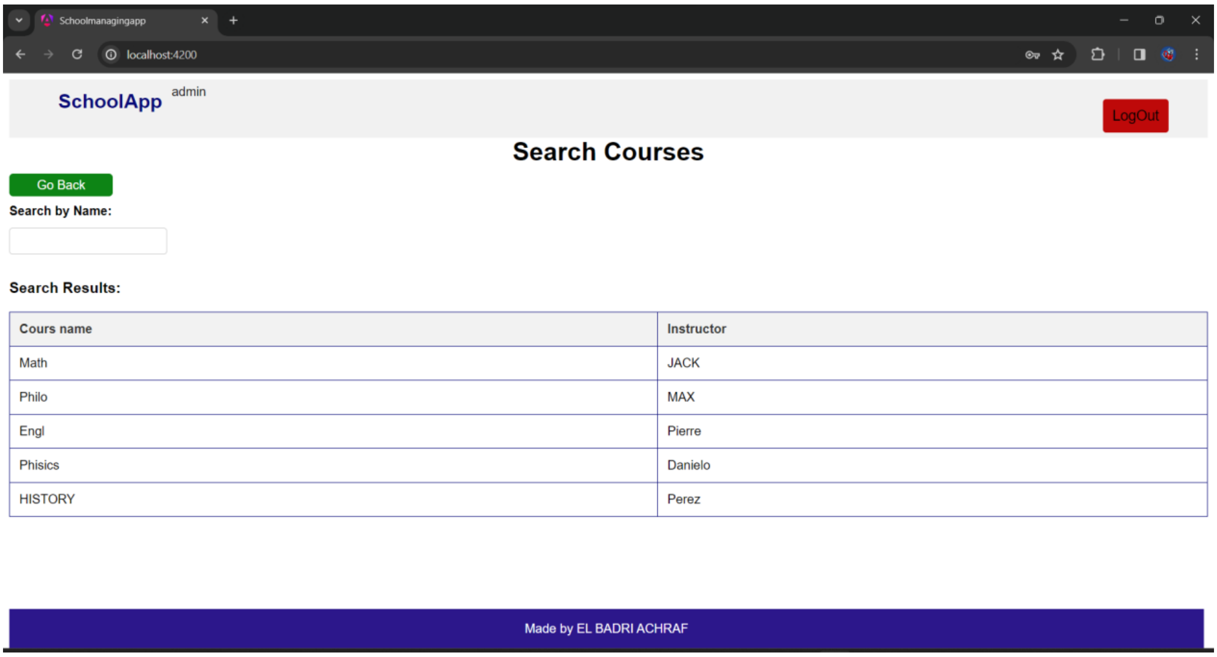


Menu

The admin has access to everything, he can List, search, add, delete, update courses or he can List, search, add, delete, update progress or he can List, search, add, delete, update students or he can List, search, add, delete, update instructors or he can List, search, add, delete, update admins.

Search and filter courses interface:

It filters by typing the name of the course.



Search Courses

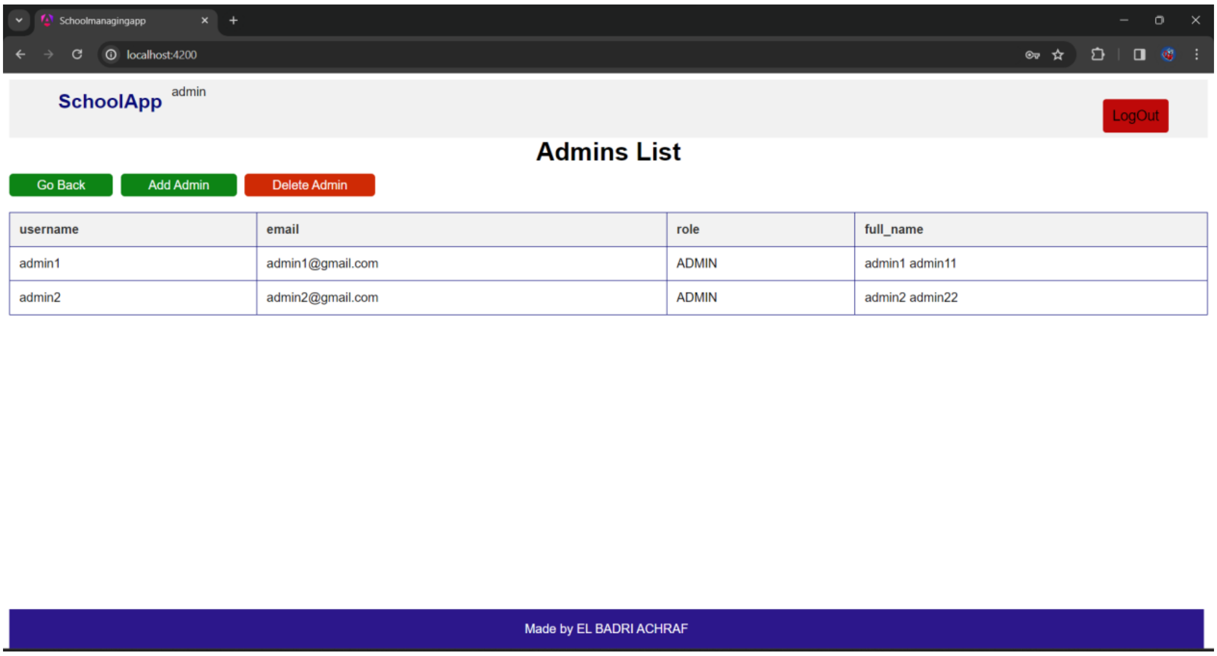
Search by Name:

Search Results:

Cours name	Instructor
Math	JACK
Philo	MAX
Engl	Pierre
Phisics	Danielo
HISTORY	Perez

List Admins interface:

Where the admin can add or delete an admin.

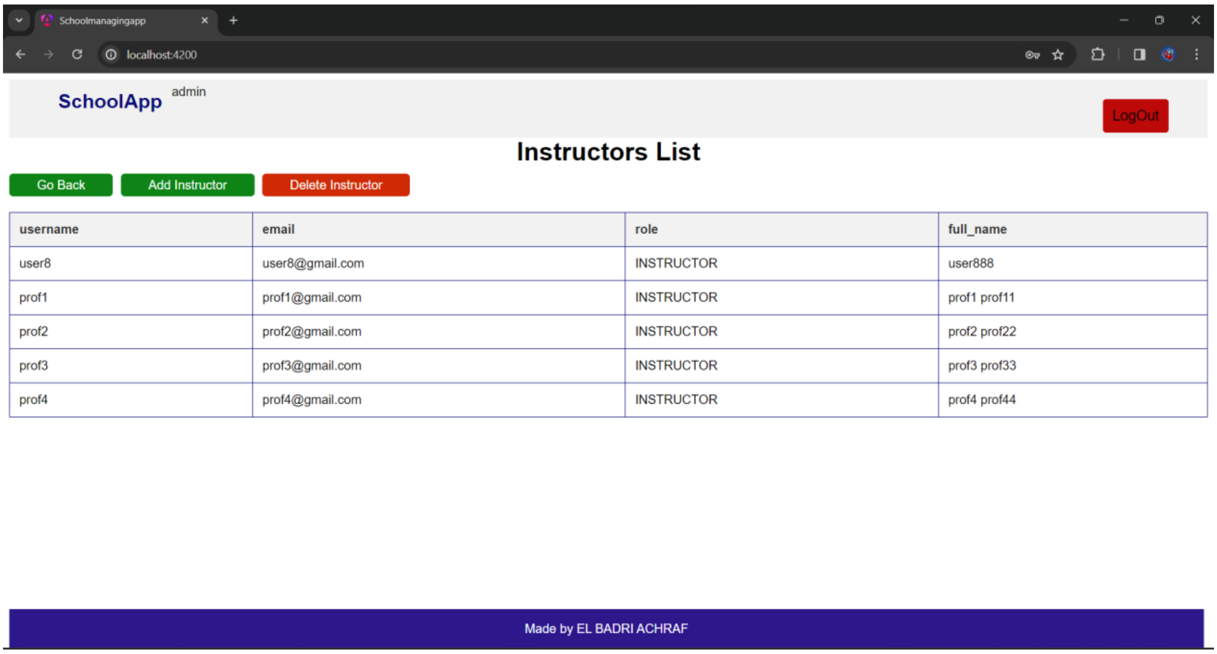


Admins List

username	email	role	full_name
admin1	admin1@gmail.com	ADMIN	admin1 admin11
admin2	admin2@gmail.com	ADMIN	admin2 admin22

List instructors interface:

Where the admin can add or delete an instructor.

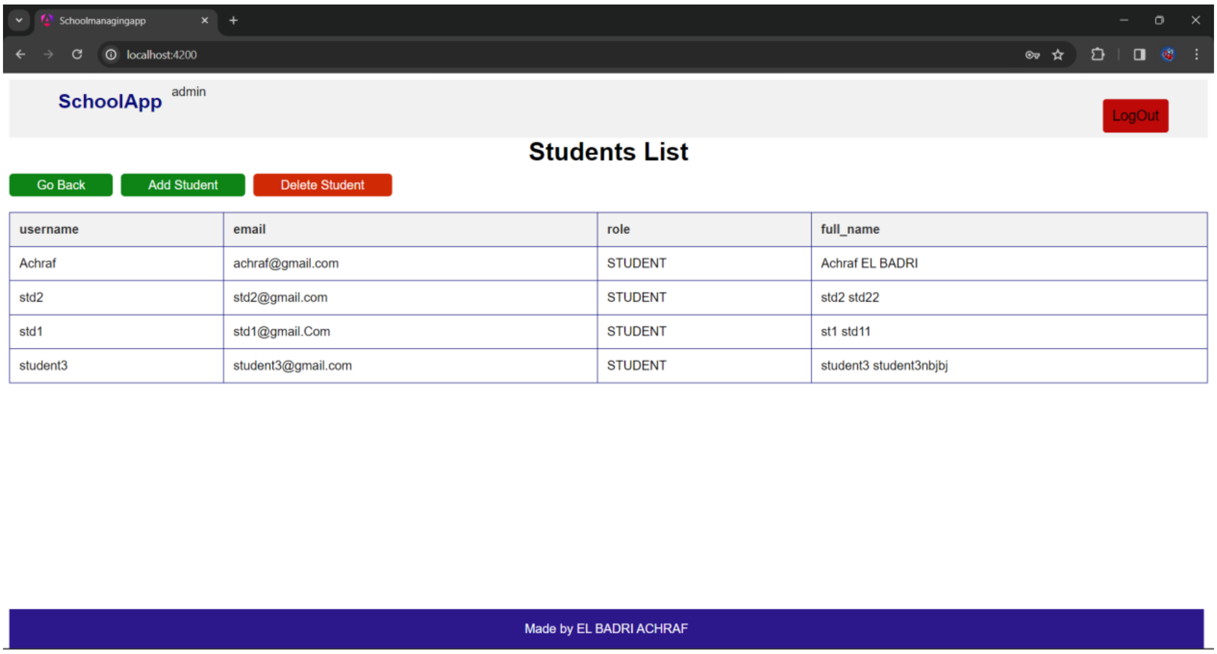


Instructors List

username	email	role	full_name
user8	user8@gmail.com	INSTRUCTOR	user888
prof1	prof1@gmail.com	INSTRUCTOR	prof1 prof11
prof2	prof2@gmail.com	INSTRUCTOR	prof2 prof22
prof3	prof3@gmail.com	INSTRUCTOR	prof3 prof33
prof4	prof4@gmail.com	INSTRUCTOR	prof4 prof44

List students interface:

Where the admin can add or delete a student.



Students List

username	email	role	full_name
Achraf	achraf@gmail.com	STUDENT	Achraf EL BADRI
std2	std2@gmail.com	STUDENT	std2 std22
std1	std1@gmail.Com	STUDENT	st1 std11
student3	student3@gmail.com	STUDENT	student3 student3nbjbj

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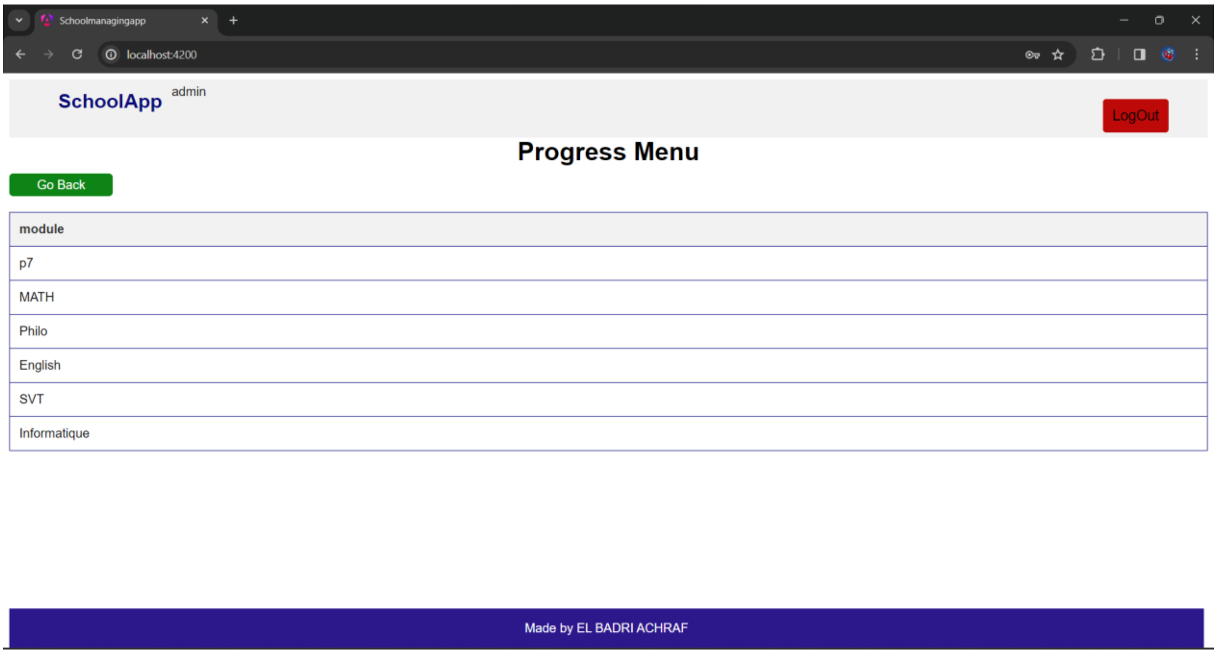
List modules interface for the teacher:



Progress Menu

module
p7
MATH
Philo
English
SVT
Informatique

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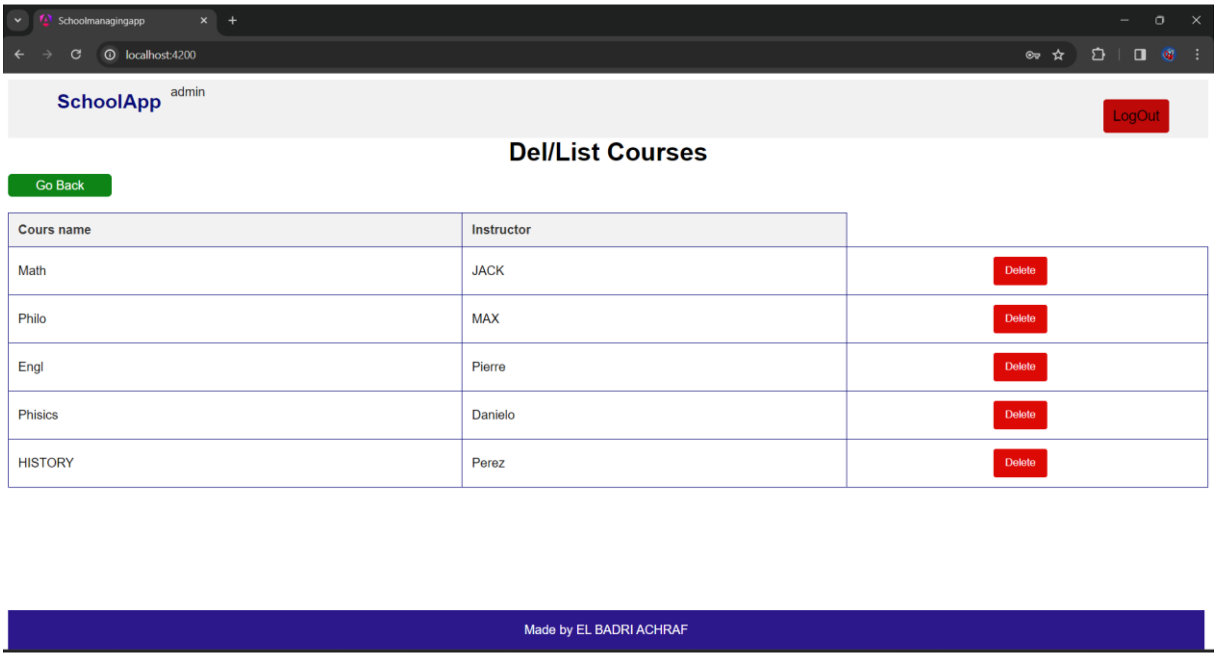
Delete/list Courses interface:

Only the admin can add a new course.



Del/List Courses

Cours name	Instructor	
Math	JACK	Delete
Philo	MAX	Delete
Engl	Pierre	Delete
Phisics	Danielo	Delete
HISTORY	Perez	Delete

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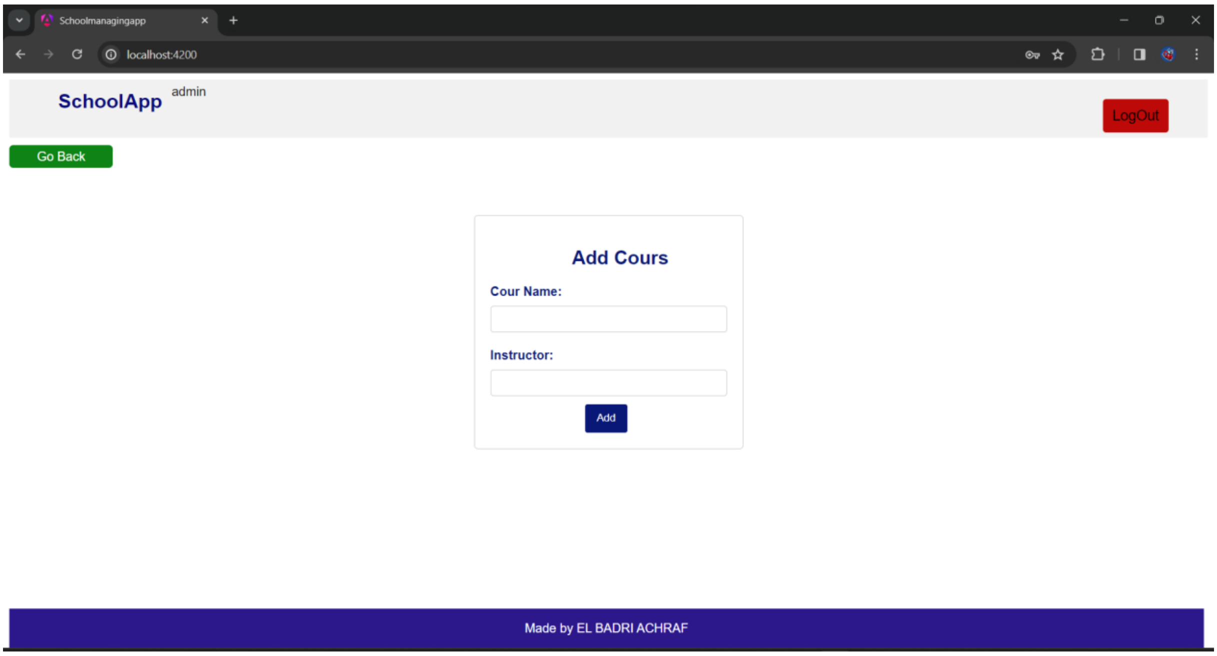
Add a course interface:

Only the admin and the instructor can add a new course.



Add Cours

Cour Name:

Instructor:

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Technologies used for this project:

Spring boot:

Spring Boot is an open-source Java-based framework that is part of the larger Spring Framework. It is designed to simplify the development of production-ready applications with a minimal amount of configuration. Spring Boot provides a convention-over-configuration approach, which means that developers can get started quickly without needing to deal with the complexities of setting up and configuring a Spring application.

Angular:

Angular is a popular open-source web application framework developed and maintained by Google and a community of developers. It is written in TypeScript and is designed to simplify the development of dynamic, single-page web applications (SPAs). Angular provides a comprehensive set of tools and libraries for building complex, client-side applications.

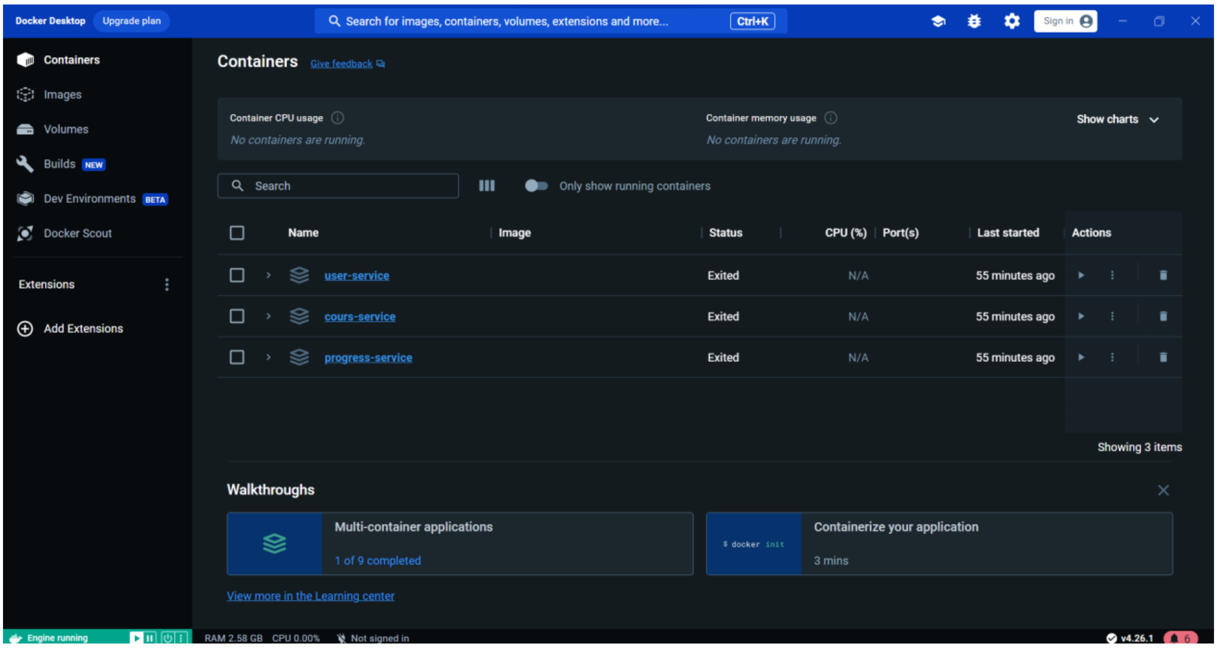
Post man:

Postman is a popular collaboration platform for API development. It provides tools for designing, testing, and managing APIs, making the API development process more efficient. Postman is widely used by developers, testers, and other stakeholders involved in the API development lifecycle.

Docker:

Docker is a platform that enables developers to automate the deployment of applications inside lightweight, portable containers. Containers are standalone executable packages that include everything needed to run a piece of software, including the code, runtime, libraries, and system tools. Docker provides a consistent environment across different environments, making it easier to develop, test, and deploy applications.

The 3 services: user-service, progress-service, cours-service.



Containers

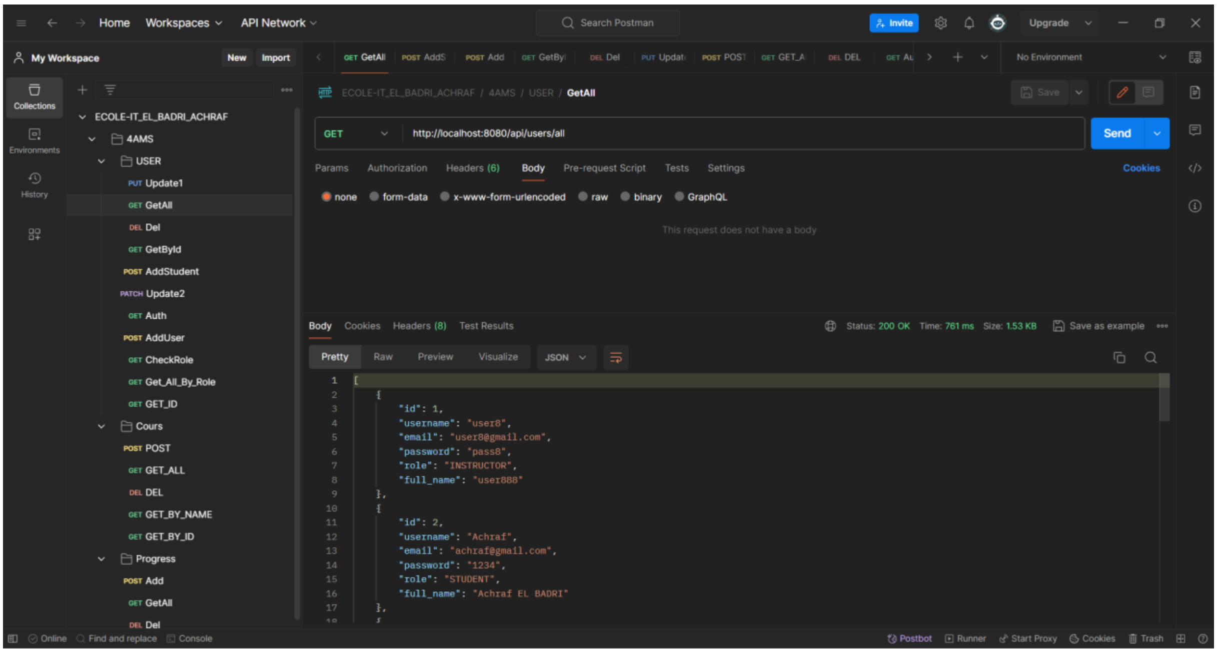
Container CPU usage
No containers are running.

Container memory usage
No containers are running.

☐	Name	Image	Status	CPU (%)	Port(s)	Last started	Actions
☐	user-service		Exited	N/A		55 minutes ago	
☐	cours-service		Exited	N/A		55 minutes ago	
☐	progress-service		Exited	N/A		55 minutes ago	

Showing 3 items

Testing, and managing user, cours, progress APIs using POSTMAN :



ECOLE-IT_EL_BADRI_ACHRAF / 4AMS / USER / GetAll

GET http://localhost:8080/api/users/all

● none ○ form-data ○ x-www-form-urlencoded ○ raw ○ binary ○ GraphQL

This request does not have a body

Status: 200 OK Time: 761 ms Size: 1.53 KB

JSON

```
[
    {
        "id": 1,
        "username": "user8",
        "email": "user8@gmail.com",
        "password": "pass8",
        "role": "INSTRUCTOR",
        "full_name": "user888"
    },
    {
        "id": 2,
        "username": "Achraf",
        "email": "achraf@gmail.com",
        "password": "1234",
        "role": "STUDENT",
        "full_name": "Achraf EL BADRI"
    },
    {
```