# MINI-PROJECT

## Design and development of an administrative system for the management of an elementary school
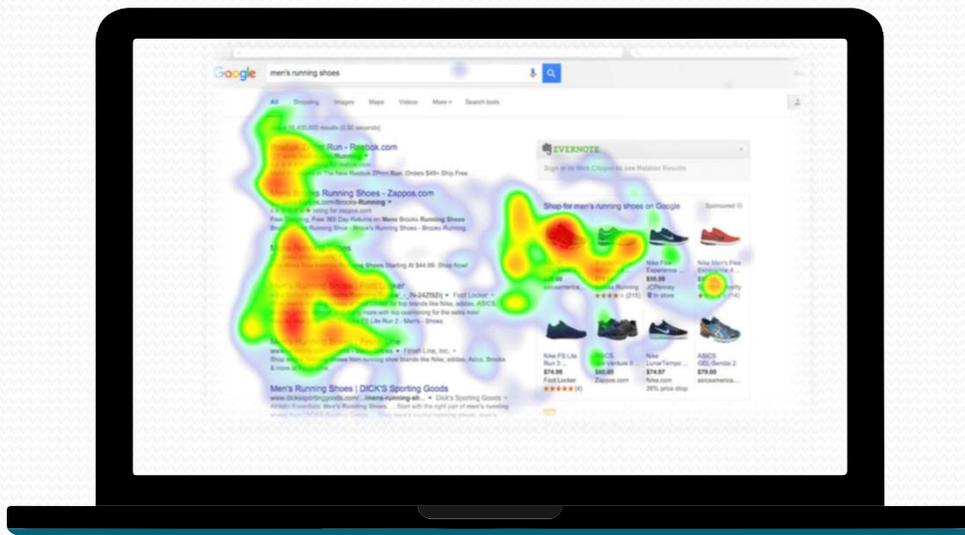
- **Realized by :**
  **Hala SLIMEN**
  - **Supervised by:**
    - ❖ **Dr. Naziha DHIBI**

2021-2022

# PLAN

General Context

Issue

Solution adopted

Needs analysis

*Modeling the specification*

Design

Realization

Conclusion
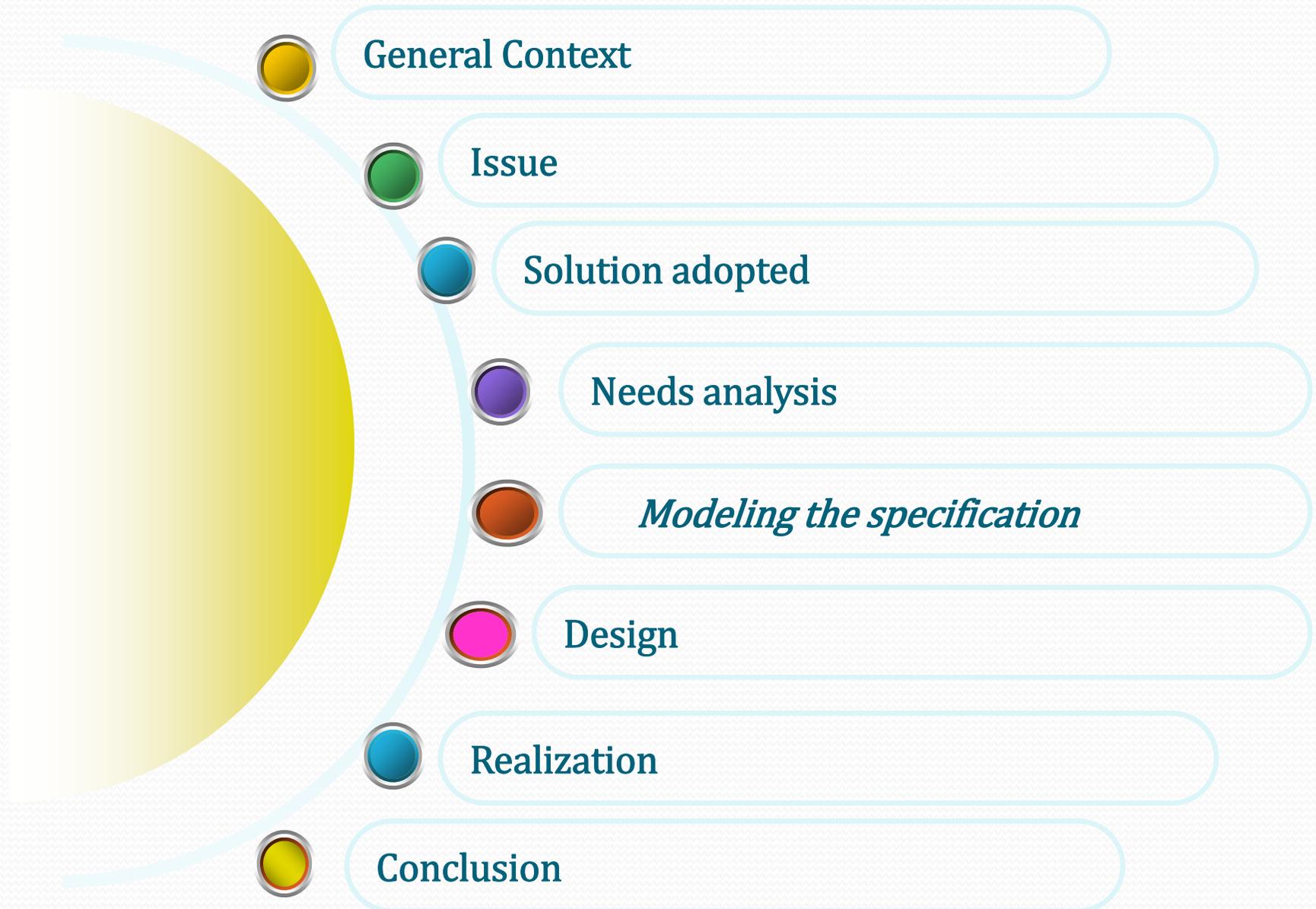
Education, from the birth of a child to adulthood, is a mixture of factors and influences. Two institutions, however, play a primary role and have formal educational responsibilities before the law and society: the family and the school

Parents must exercise their responsibilities as parents of students and communicate with the school through various procedures

These existing procedures are limited and not scalable:

❑ Information is distributed to parents in paper form and often through students.

❑ The lack of communication between teachers and parents, especially since appointments are managed by the administration which can delay them.

❑ A difficulty in follow-up

❑ Lack of evaluation

## *Solution adopted*:

Install a space in the heart of the school by setting up a application " Gafsa School ":

❖ Provides parents with access to all information regarding their children enrolled in the school

❖ Improves communication between parents and the school and no longer relies on the student to provide information

❖ Allows a better control of the young people and consequently amplifies their success

❖ Facilitate the management of tasks in the school
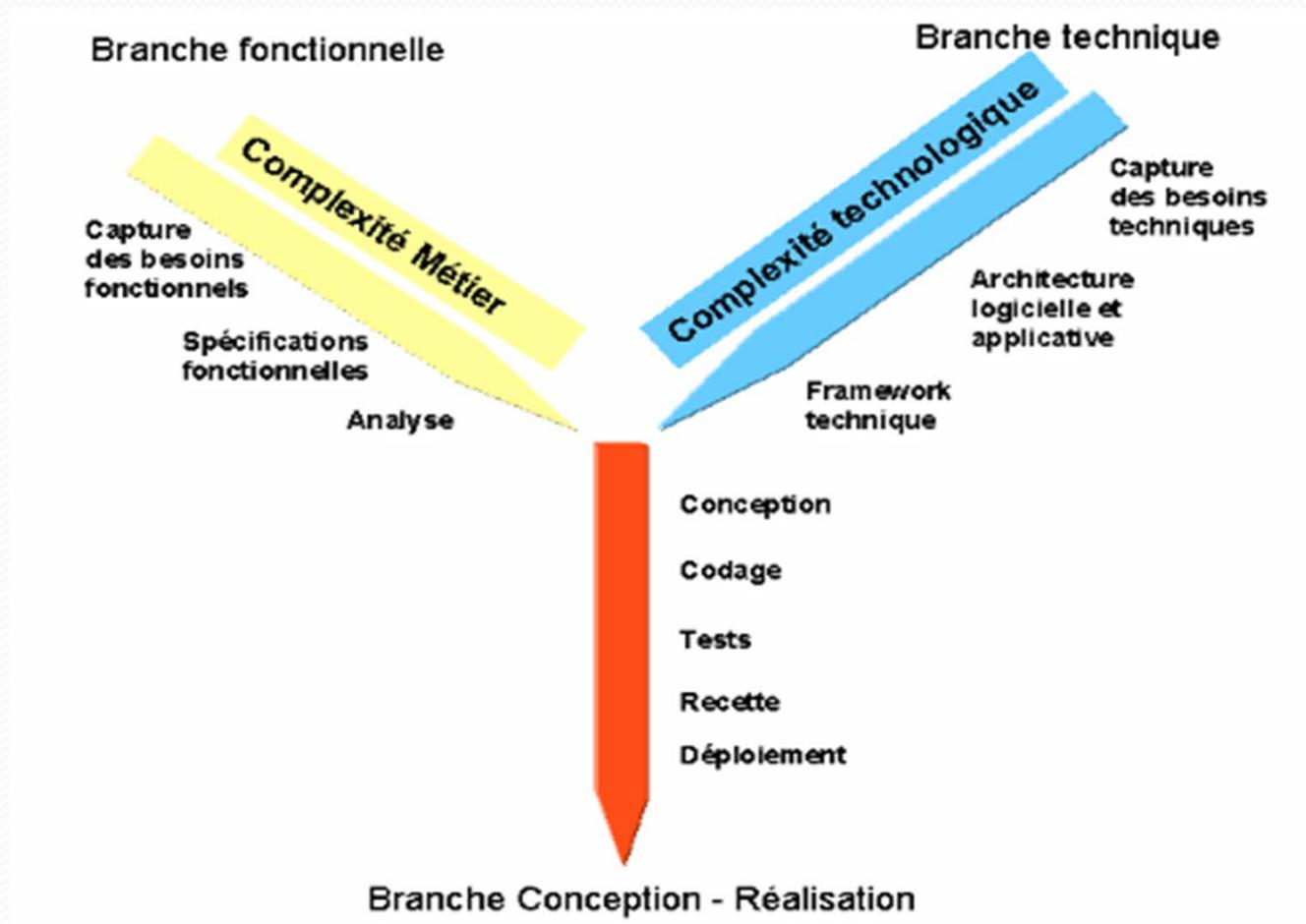
**Figure 1 2TUP Methodology**

## *Functional needs*

- *Notes management*

- *Absence management*
- *Consultation of the schedule*

- *News/notification management*

- *Profile management*

- *Communicating with teachers*

- *Manage student records*

**Non-functional needs:**

**Security**

**The performance** → Speed

Availability

Reliability

**The ergonomics**

# Modeling the specification

## The project actors

**1**

*Parent*:
- *Consultation of the timetable*
- *Consultation of absences*
- *Consultation of the notes*
- *Follow-up of comments recorded by teachers*

**2**

*Teacher:*
- *Putting the notes online*
- *Recording of remarks to be shared with parents*

**3**

*Administrator:*
- *Management of the student's file*
- *Personnel management*
- *Time management*
- *Materials Management*
- *Absence management*

## Use case diagram of the admin
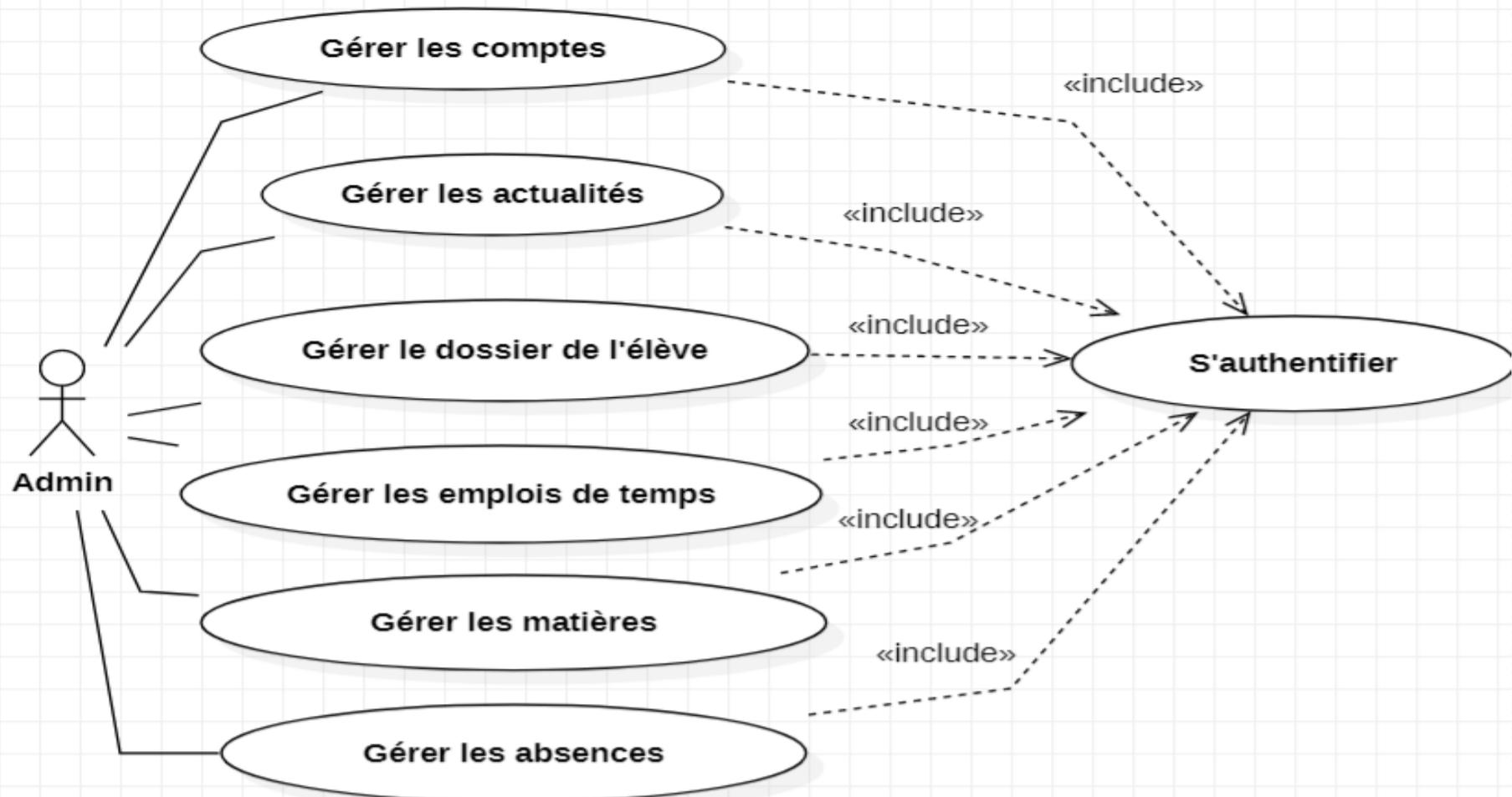
*Teacher use case diagram*
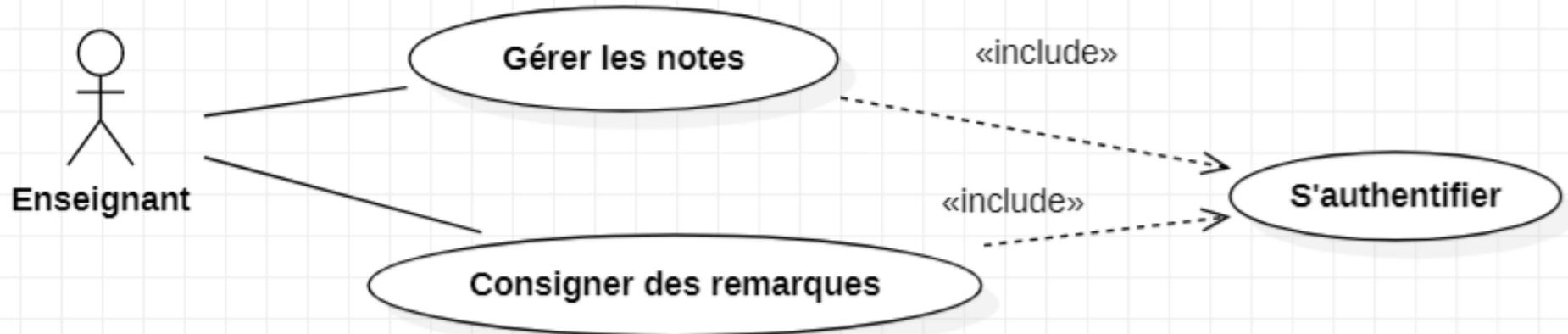
## *Parent use case diagram*
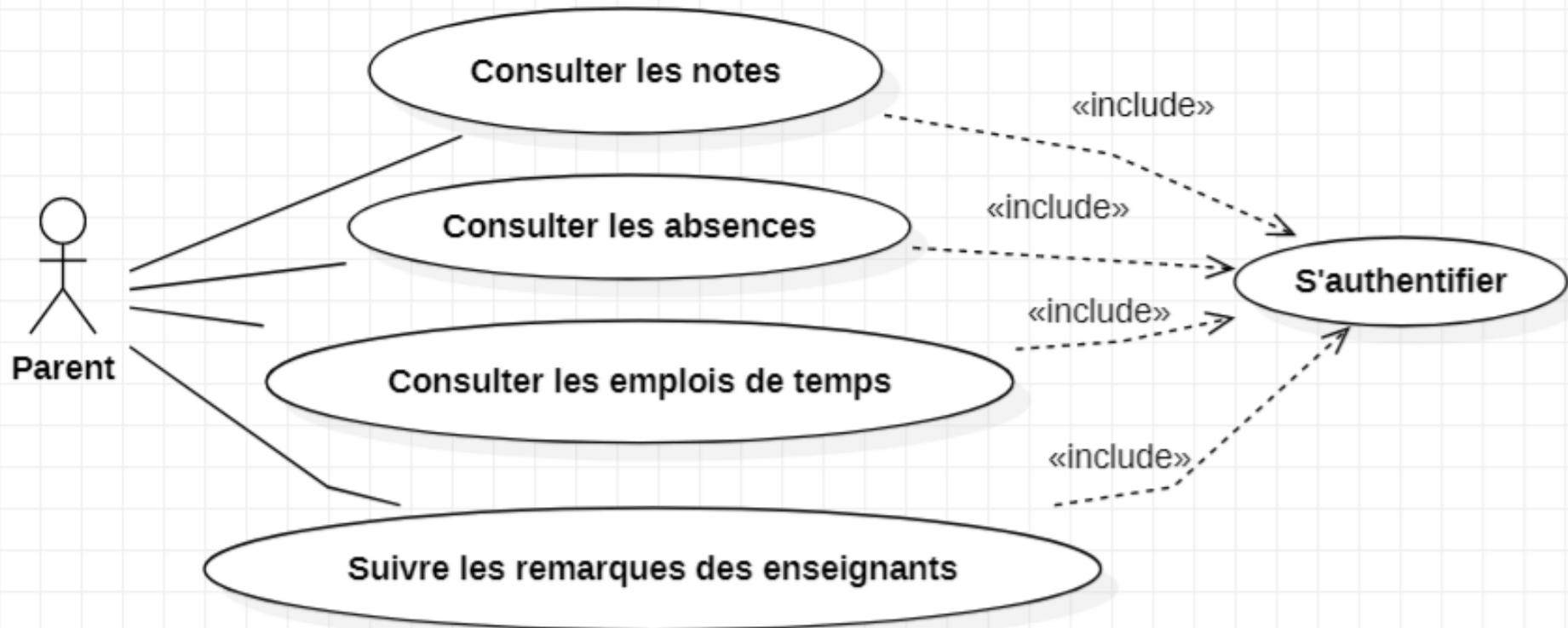
Ghvljq#phwkrg

# UML : Unified Modeling Language



A formal and standardized language.

A powerful communication medium.

An object approach associates information and processing.

Ensures a certain level of consistency.

## *Parent management'' class diagram*
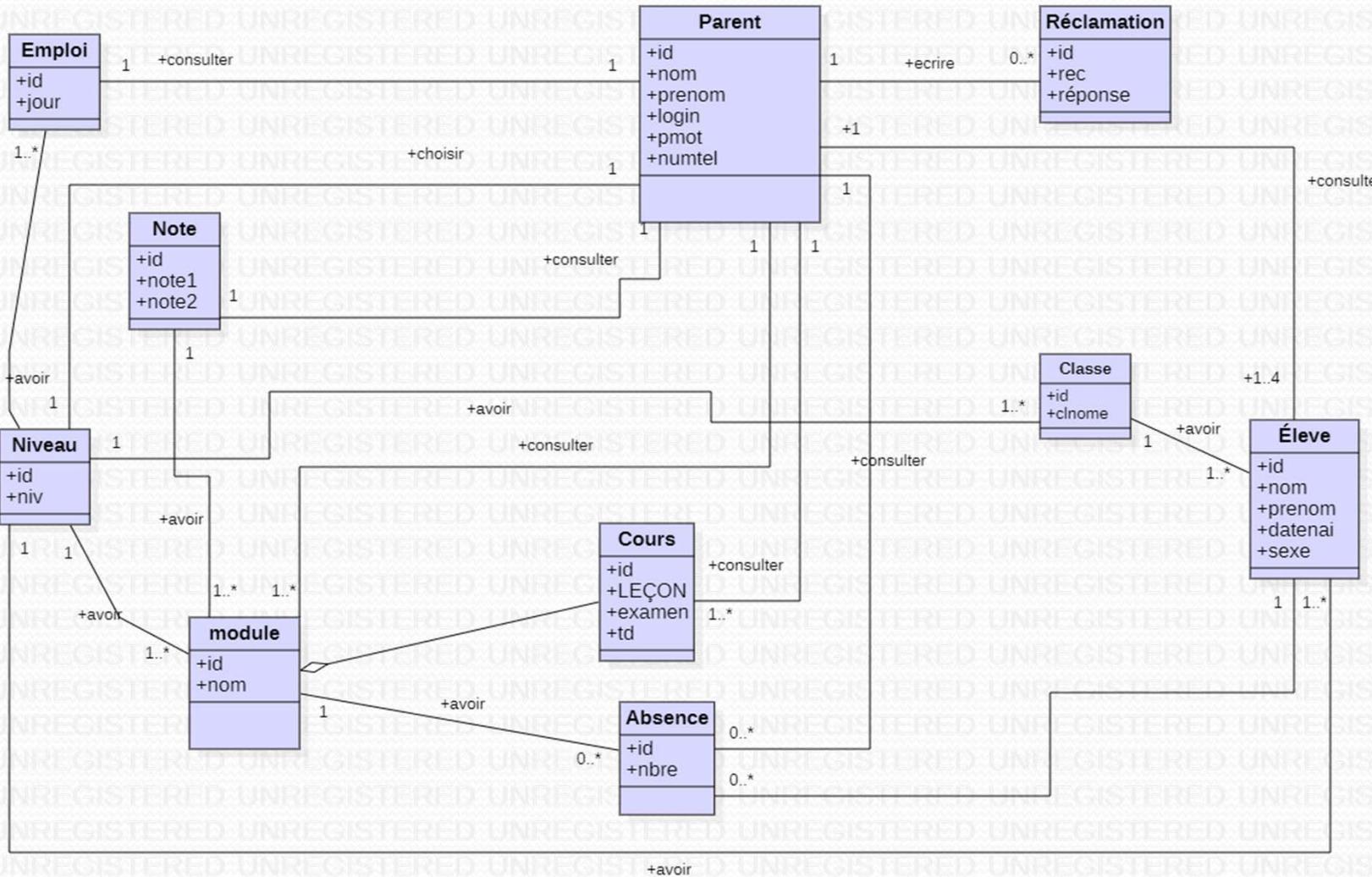
## *Administrator management'' class diagram*
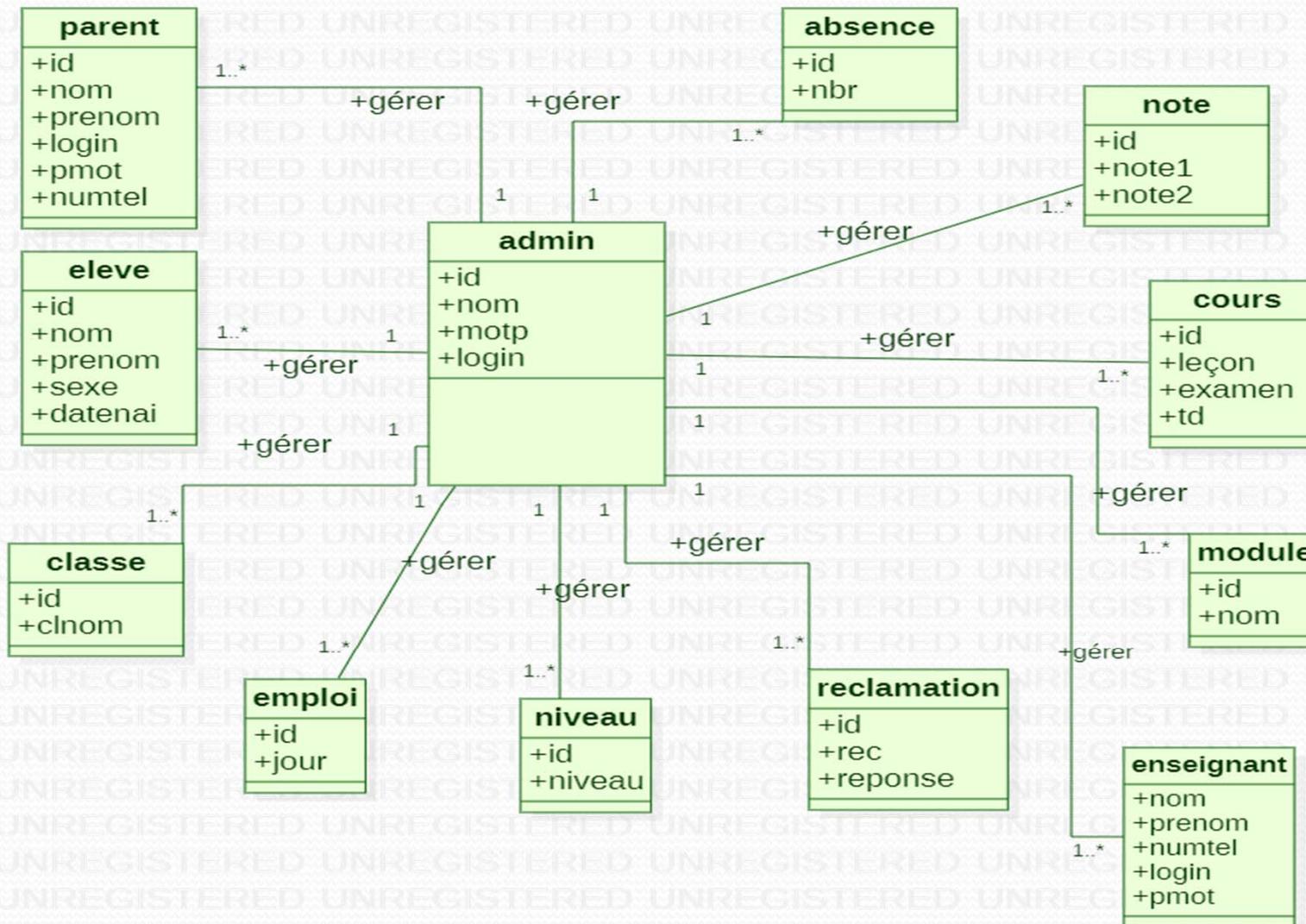
## Teacher management'' class diagram
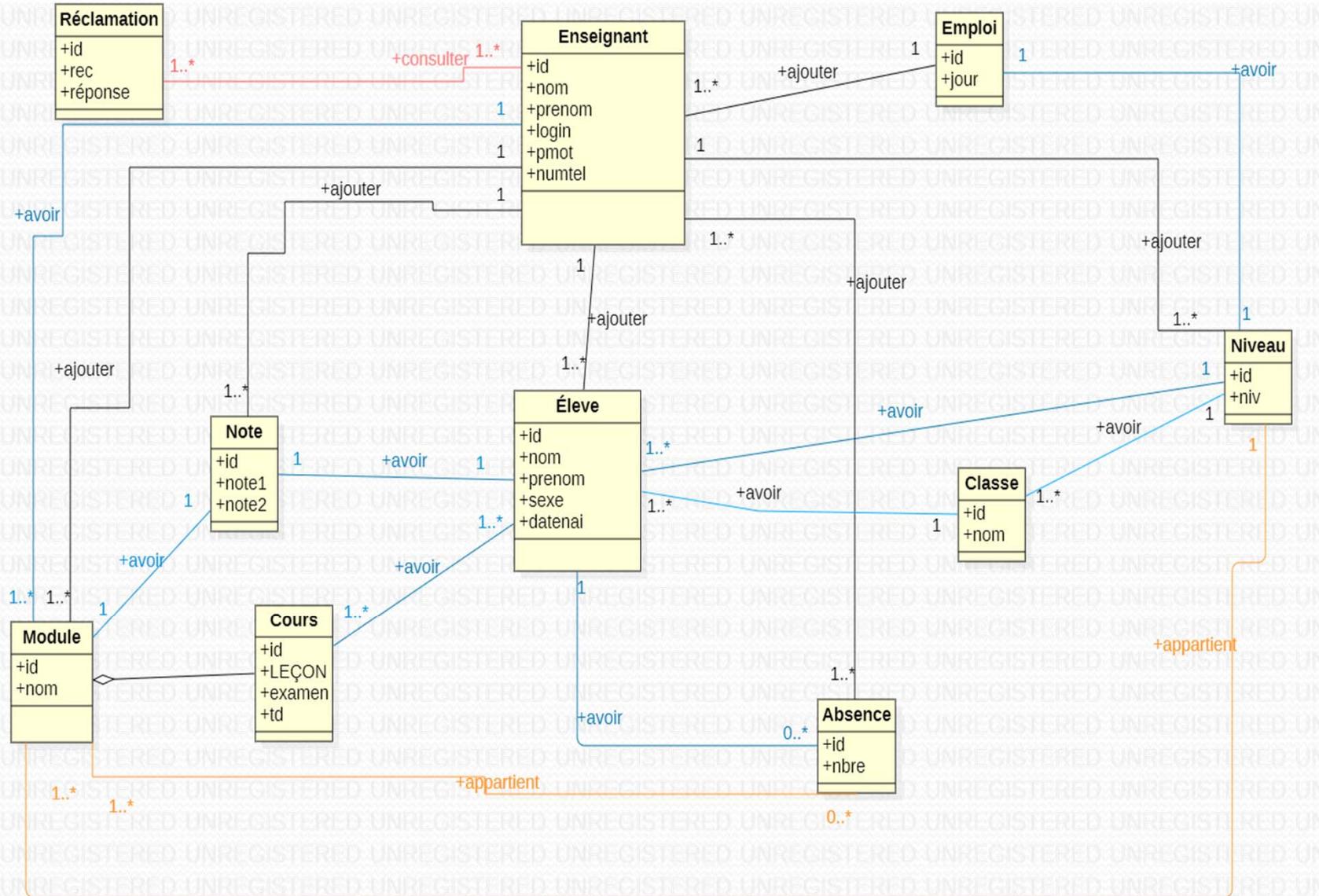
*Add claim'' sequence diagram*
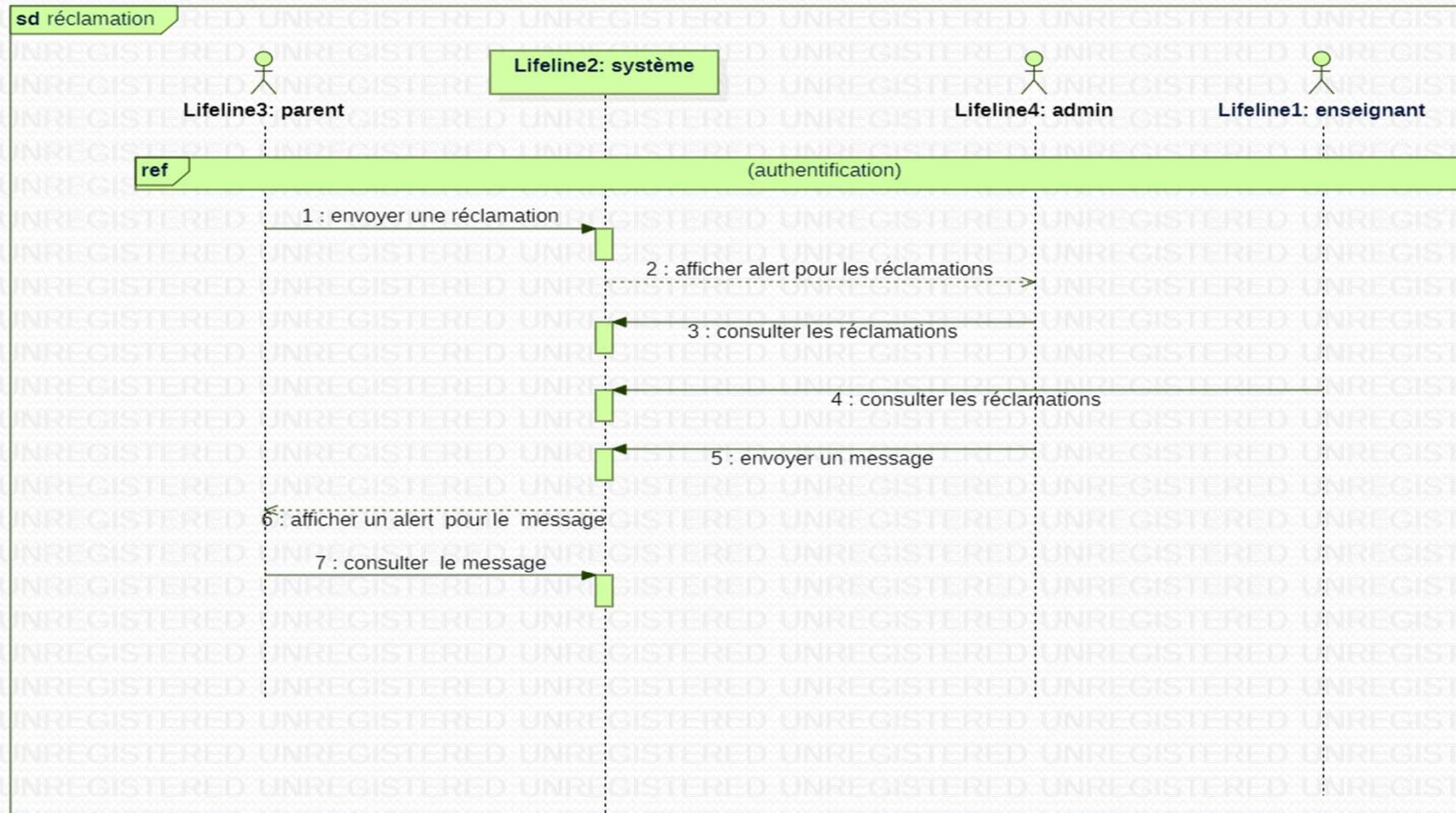
*Assign student grades'' activity diagram*
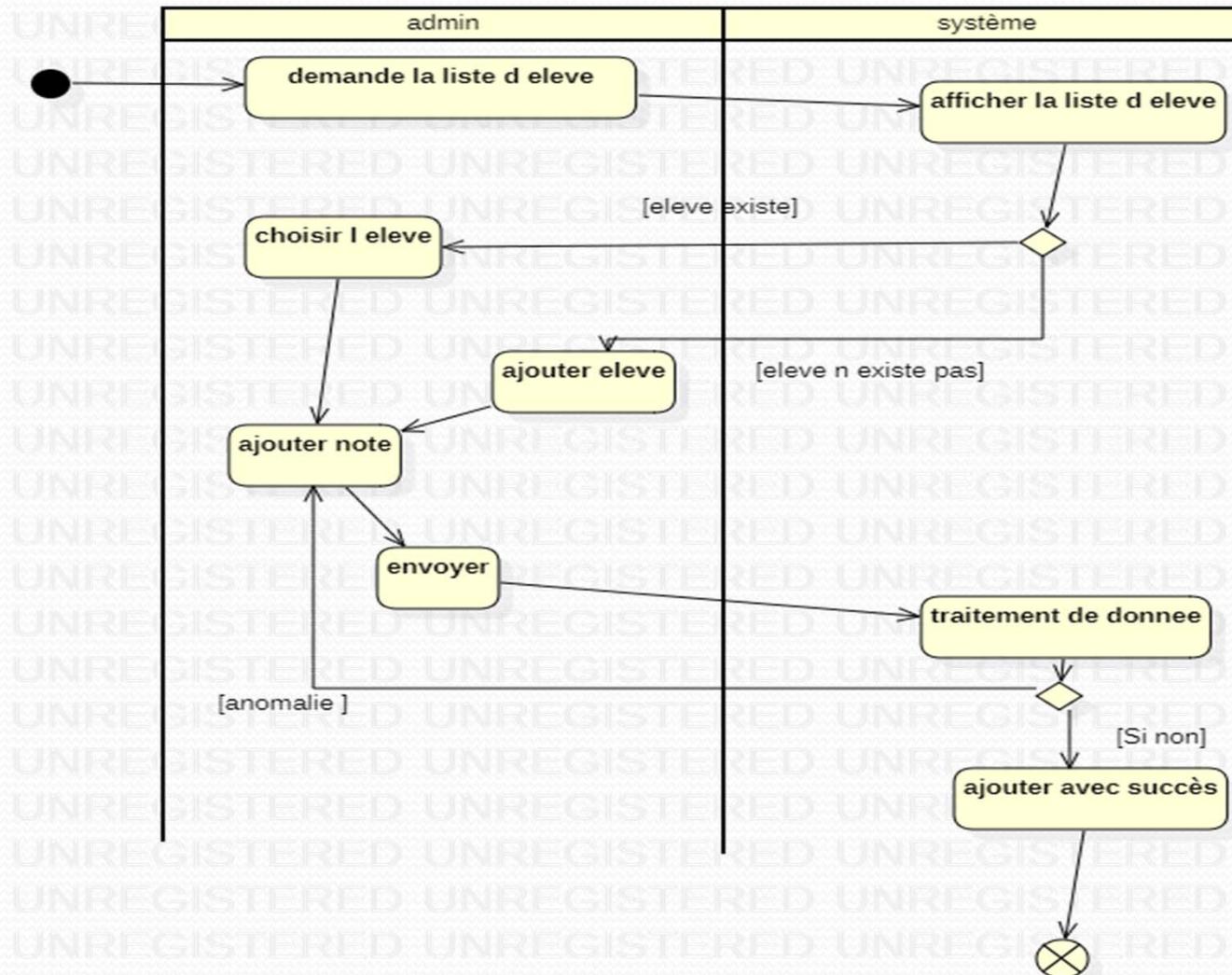
## *The software environment :*
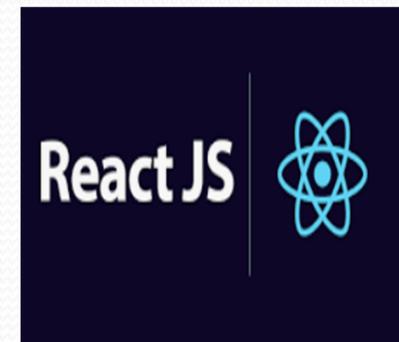
*Graphical interfaces*
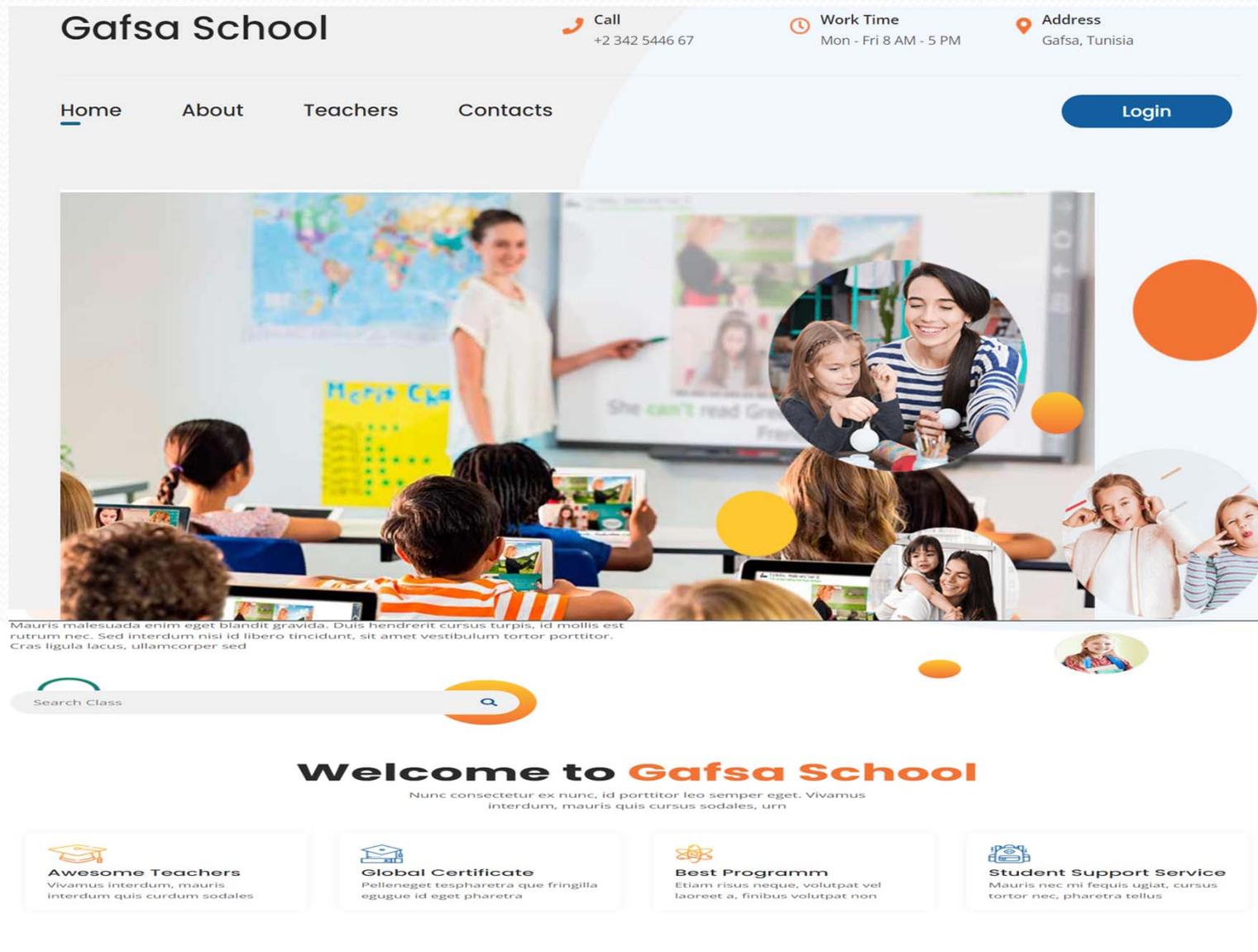


- **Home interface**

**Authentication interface**

**Administrator menu**



≡ Dashboard

⌂ Dashboard

Classes

**Teachers**

Subjects

Students

Parents

Grades

Admins

Parents Messages

Log Out
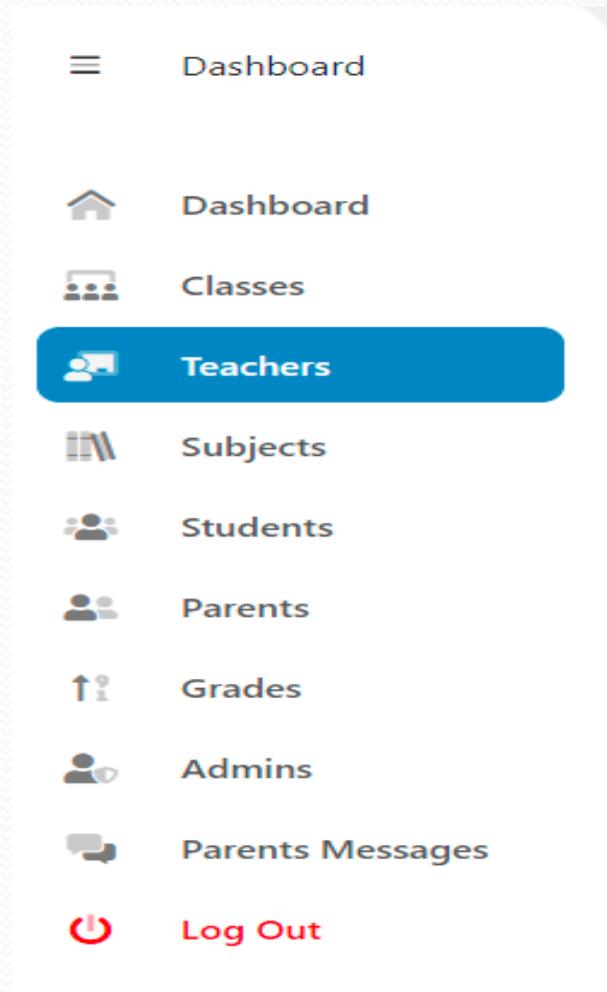
**Administrator's home page**

**Interface to manage classes**

**Interface to manage teachers**

## Interface to manage materials
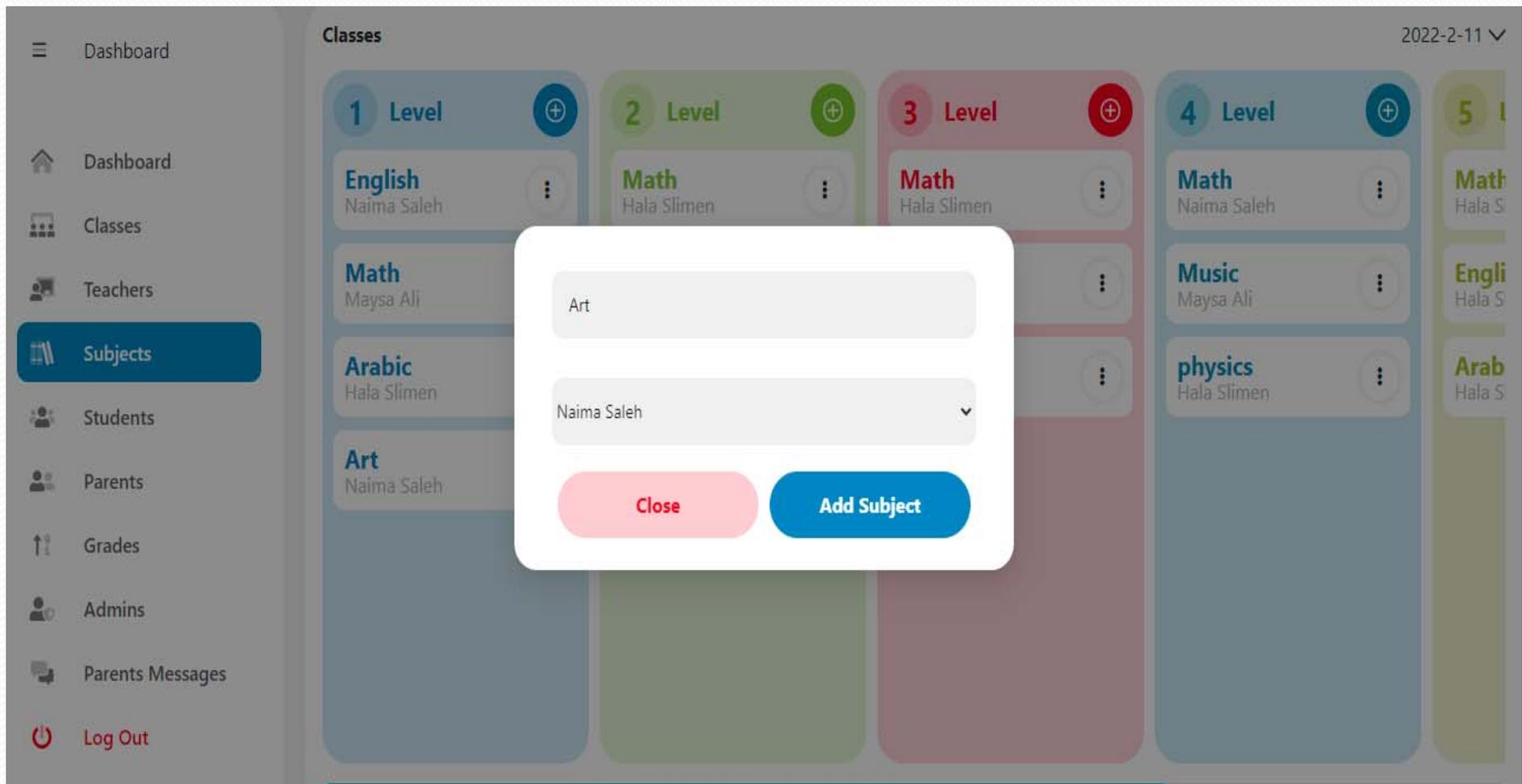
## Interface to manage students

**Interface to add a parent for each student**

The development of our application Gafsa School:

- ✓ Simple, practical and efficient management of school life

- ✓ Good follow-up of the students

This project can be in continuous development, with improvements:

- ✓ such as solving and sending exercises from the student's space

# Merci de votre attention