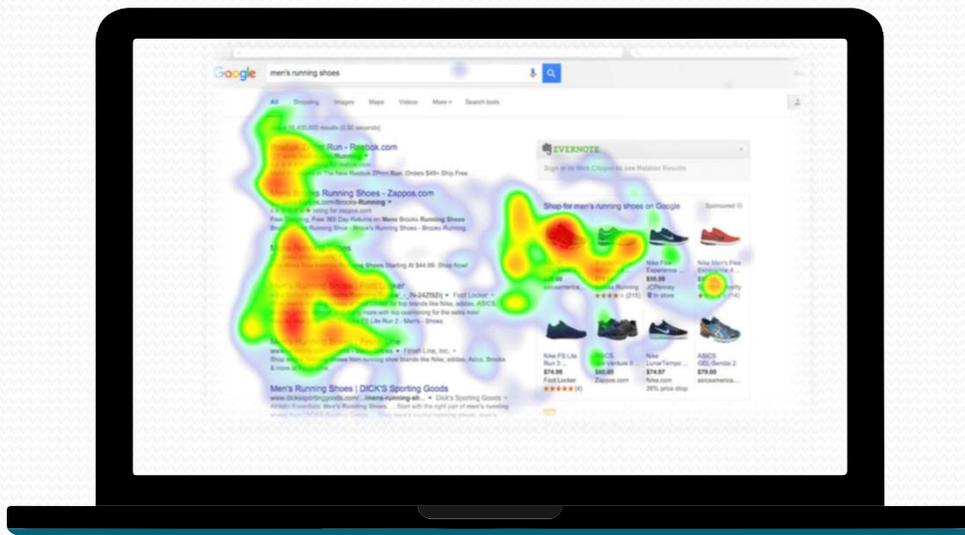


# MINI-PROJECT

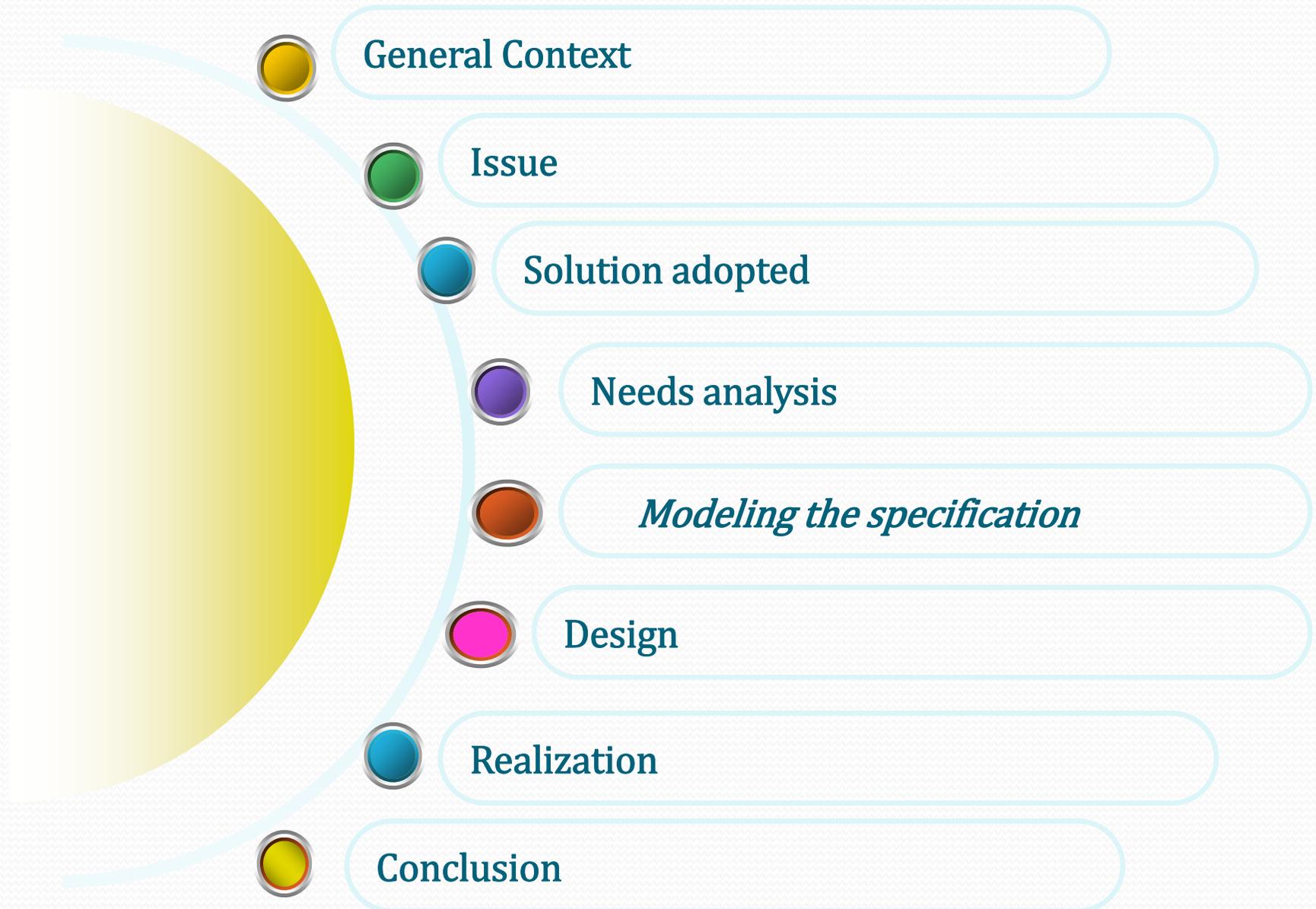
Design and development of an administrative system for the management of an elementary school



- **Realized by :**  
**Hala SLIMEN**
- **Supervised by:**  
❖ **Dr. Naziha DHIBI**

2021-2022

# PLAN





## *General Context*

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



# Choice of methodology

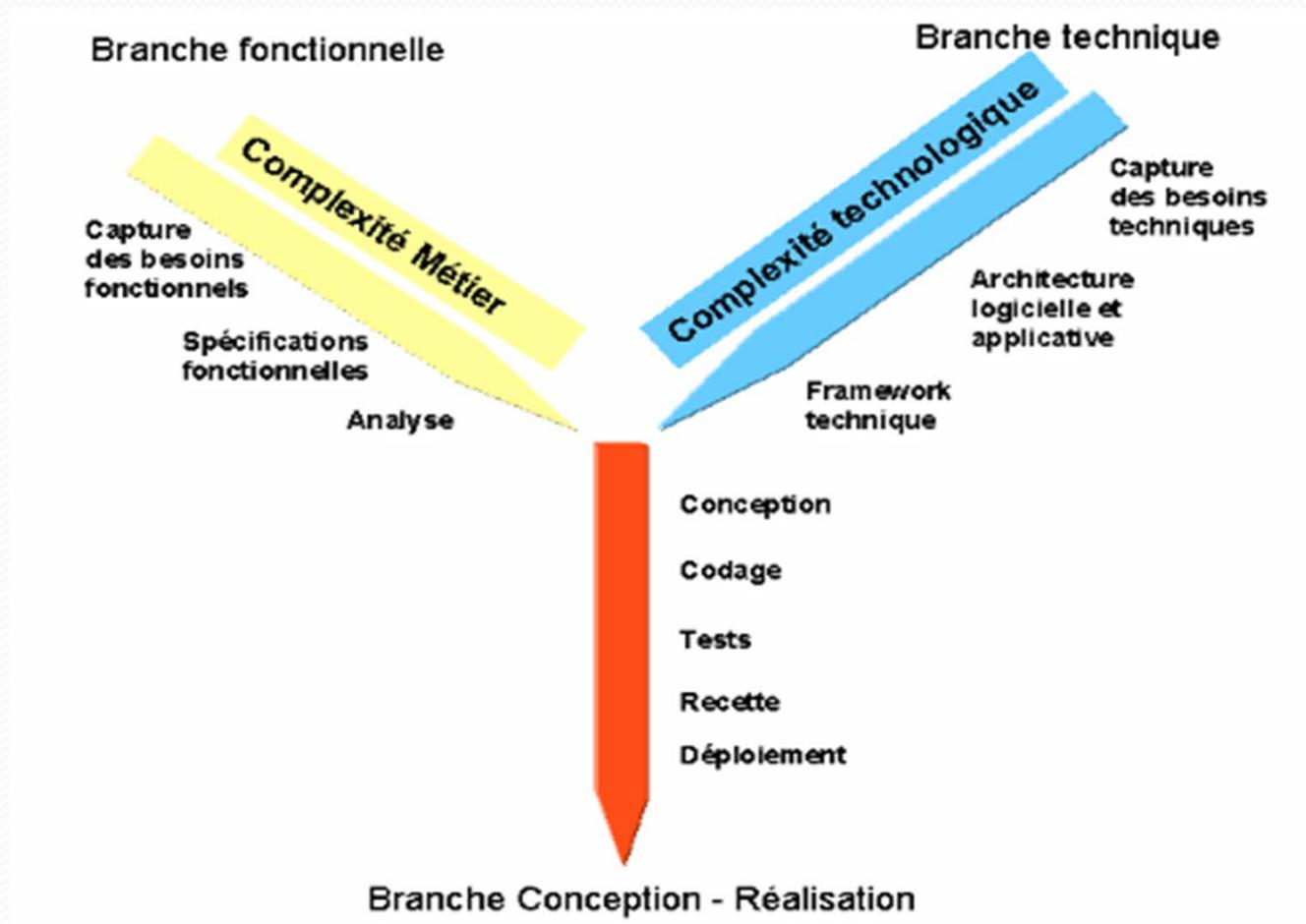


Figure 1 2TUP Methodology



### *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

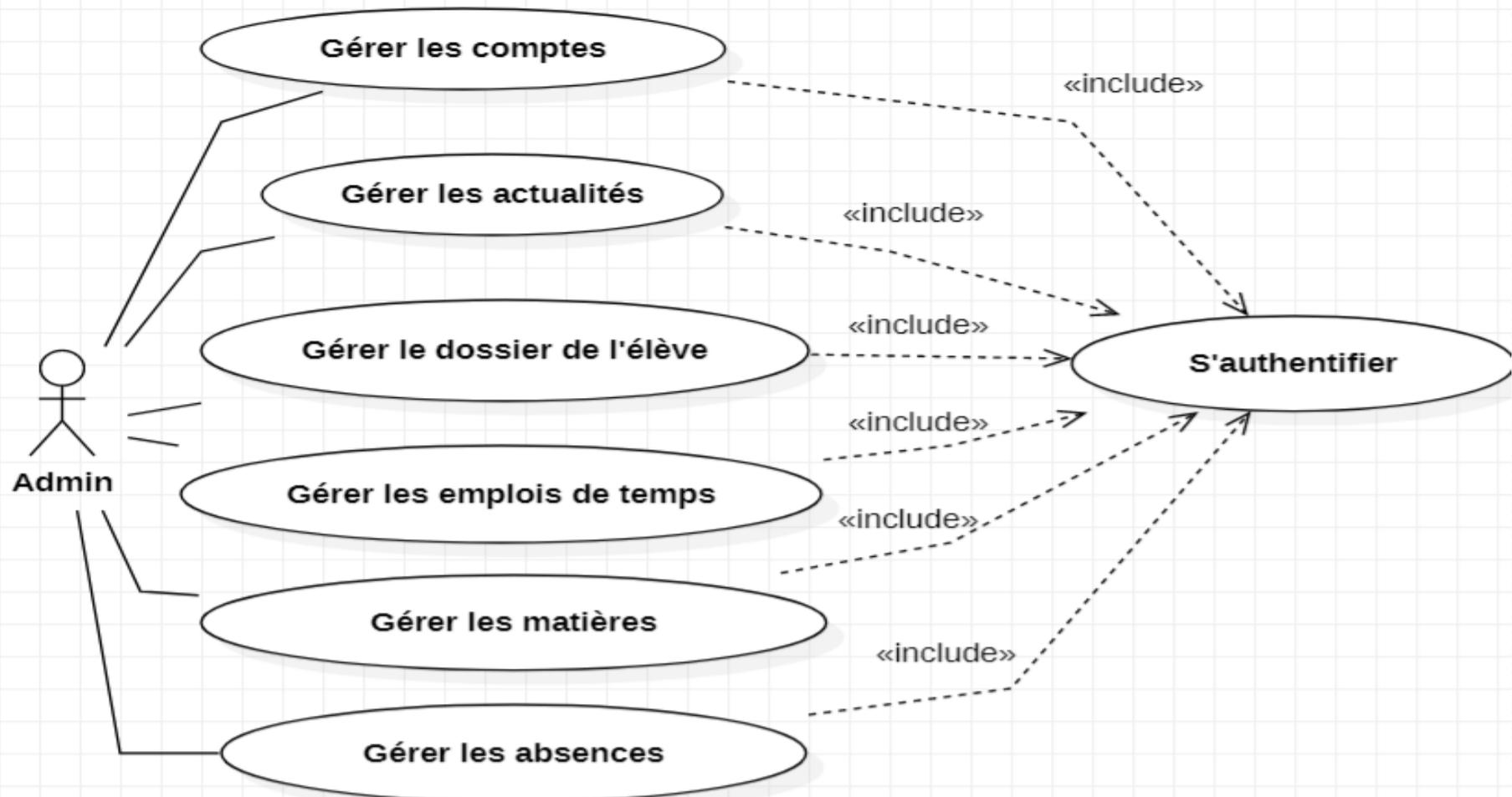
#### ***Administrator:***

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



## Modeling the specification

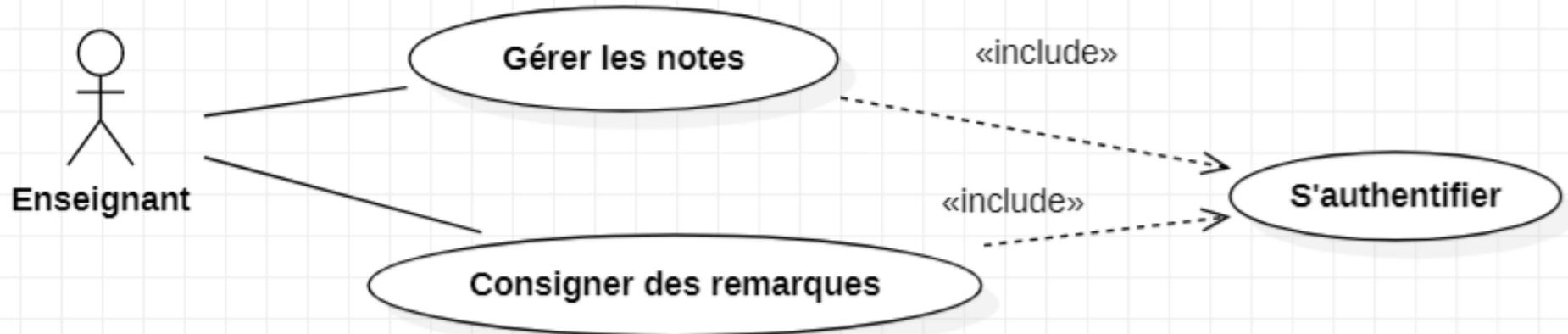
### Use case diagram of the admin





## Modeling the specification

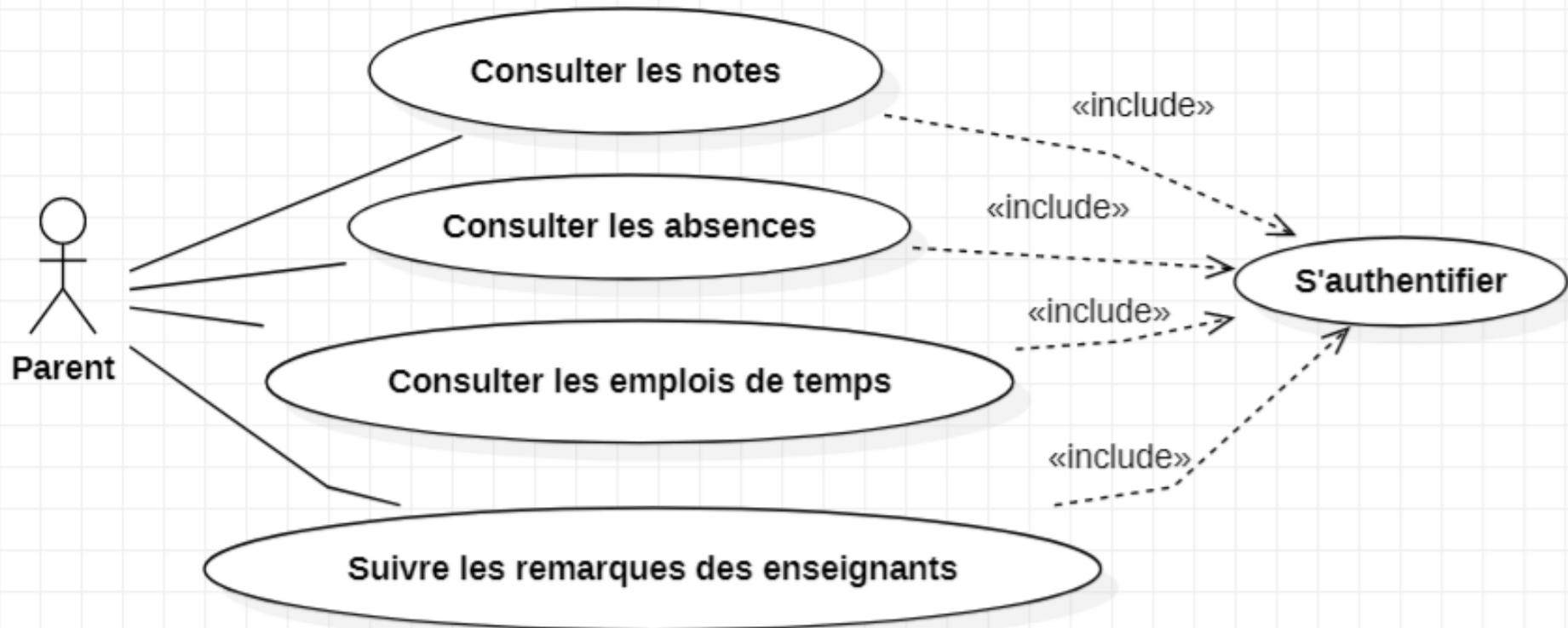
### Teacher use case diagram





# Modeling the specification

## Parent use case diagram



Ghvltjq# hwkrg

**UML : Unified Modeling Language**



A formal and standardized language.



A powerful communication medium.



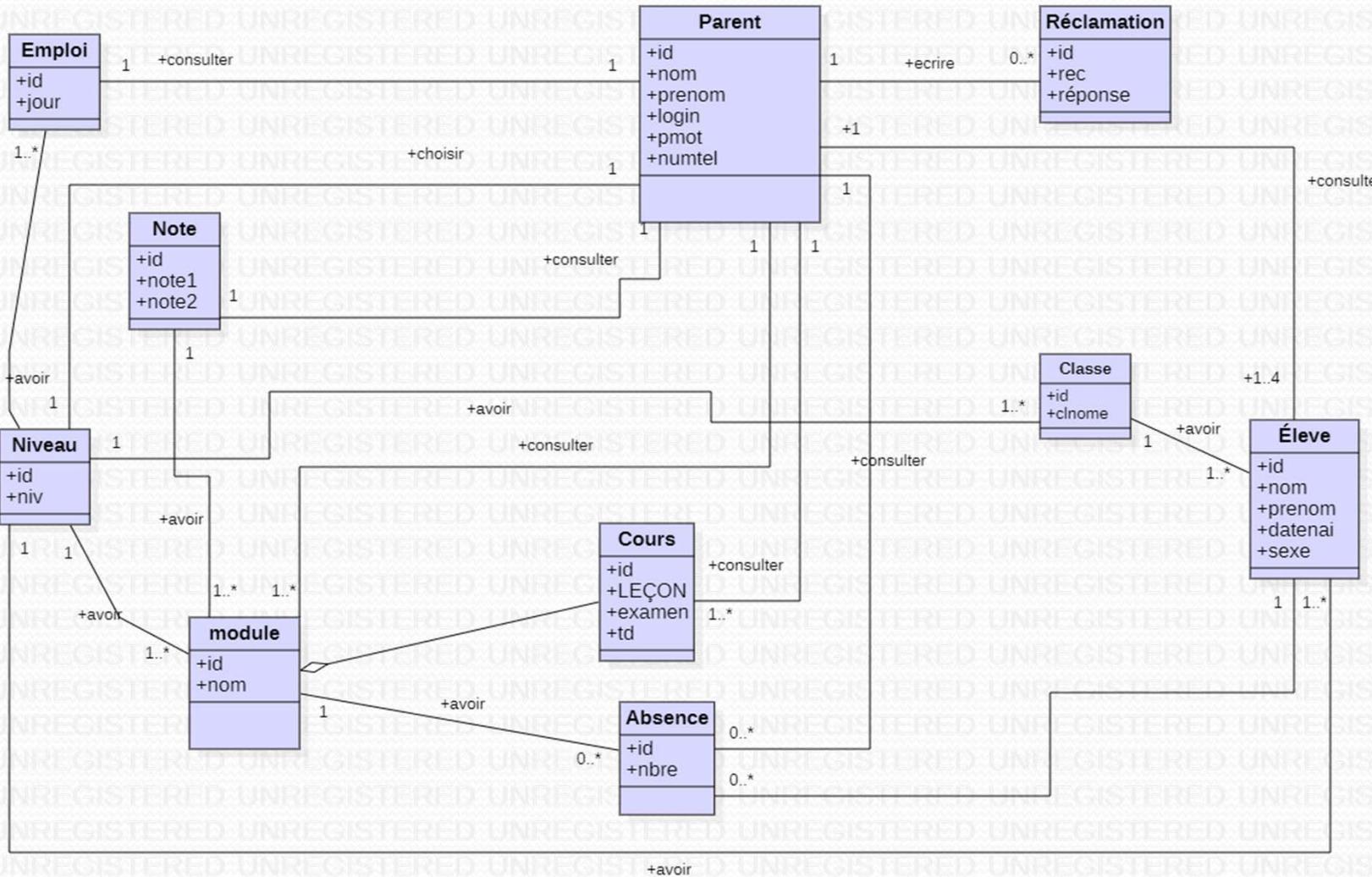
An object approach associates information and processing.



Ensures a certain level of consistency.

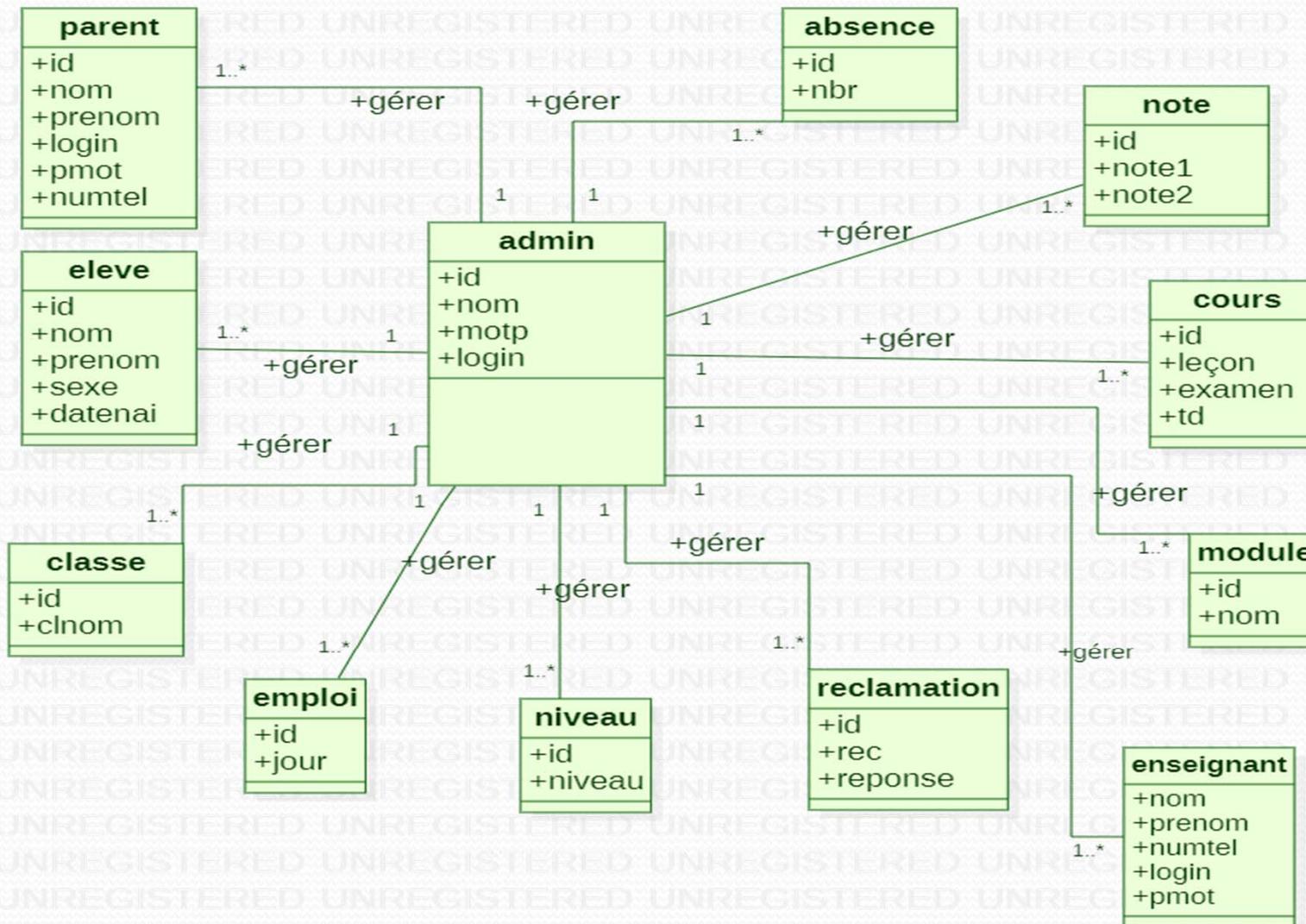
# Design

## Parent management'' class diagram

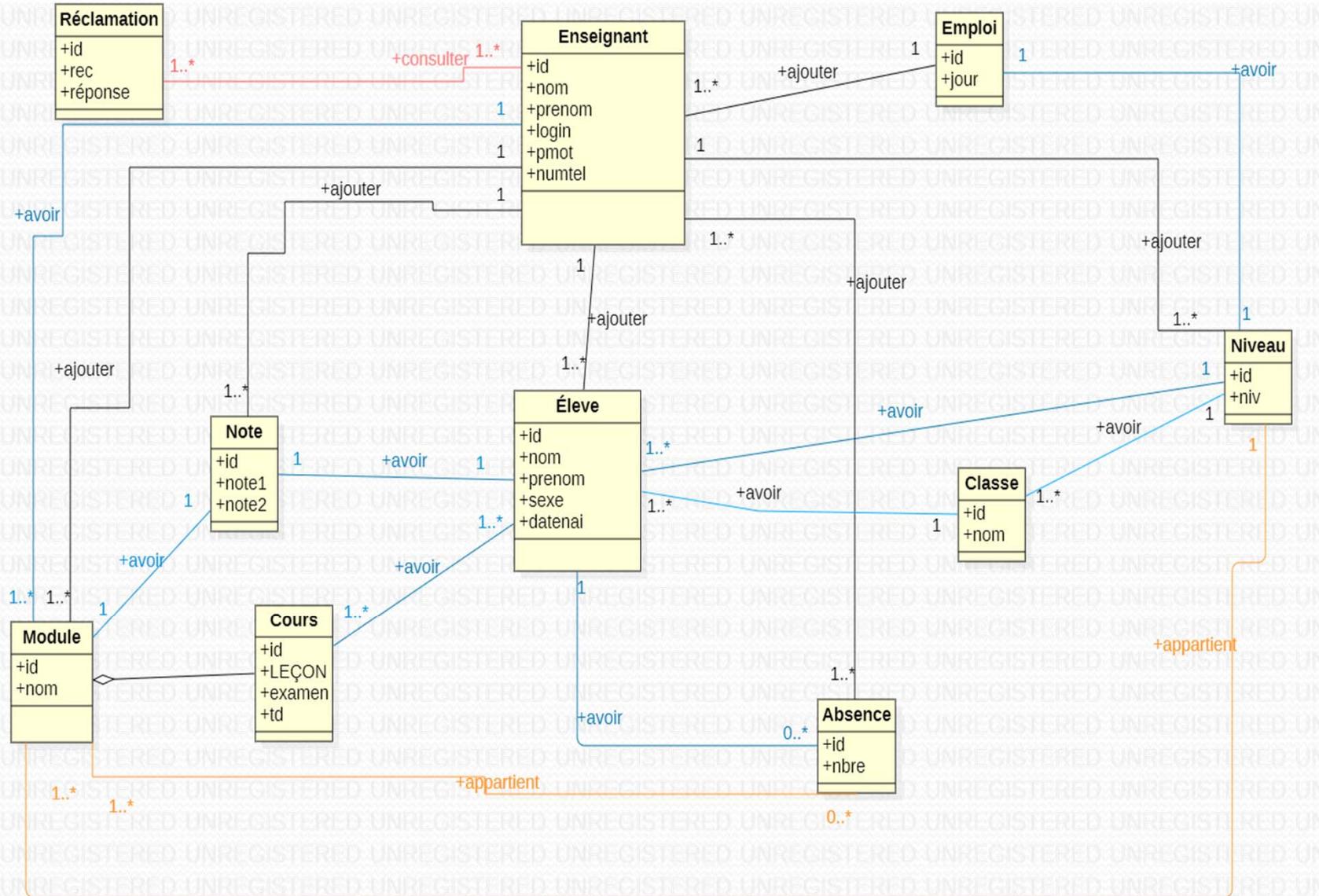


# Design

## Administrator management'' class diagram

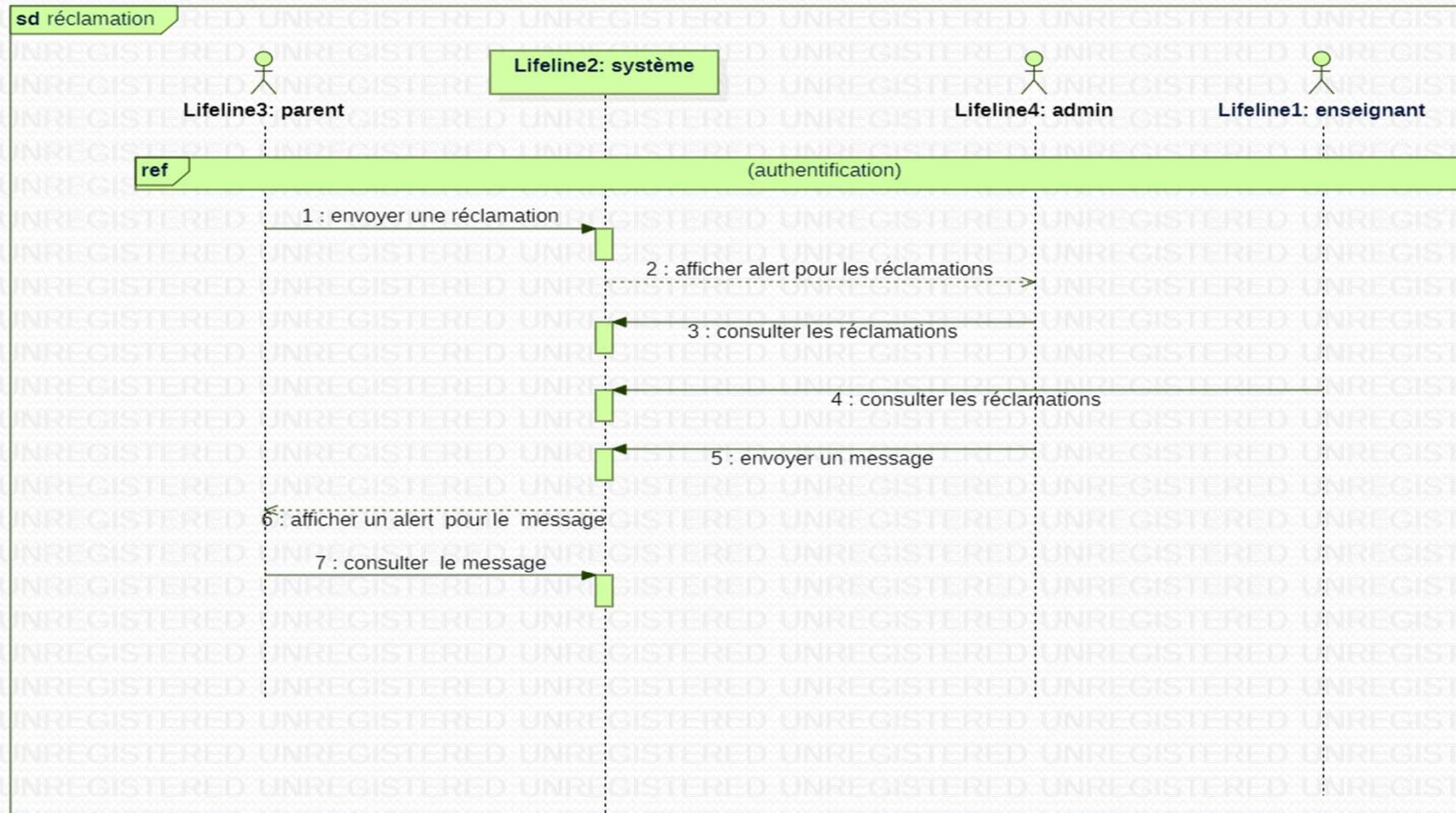


## Teacher management'' class diagram



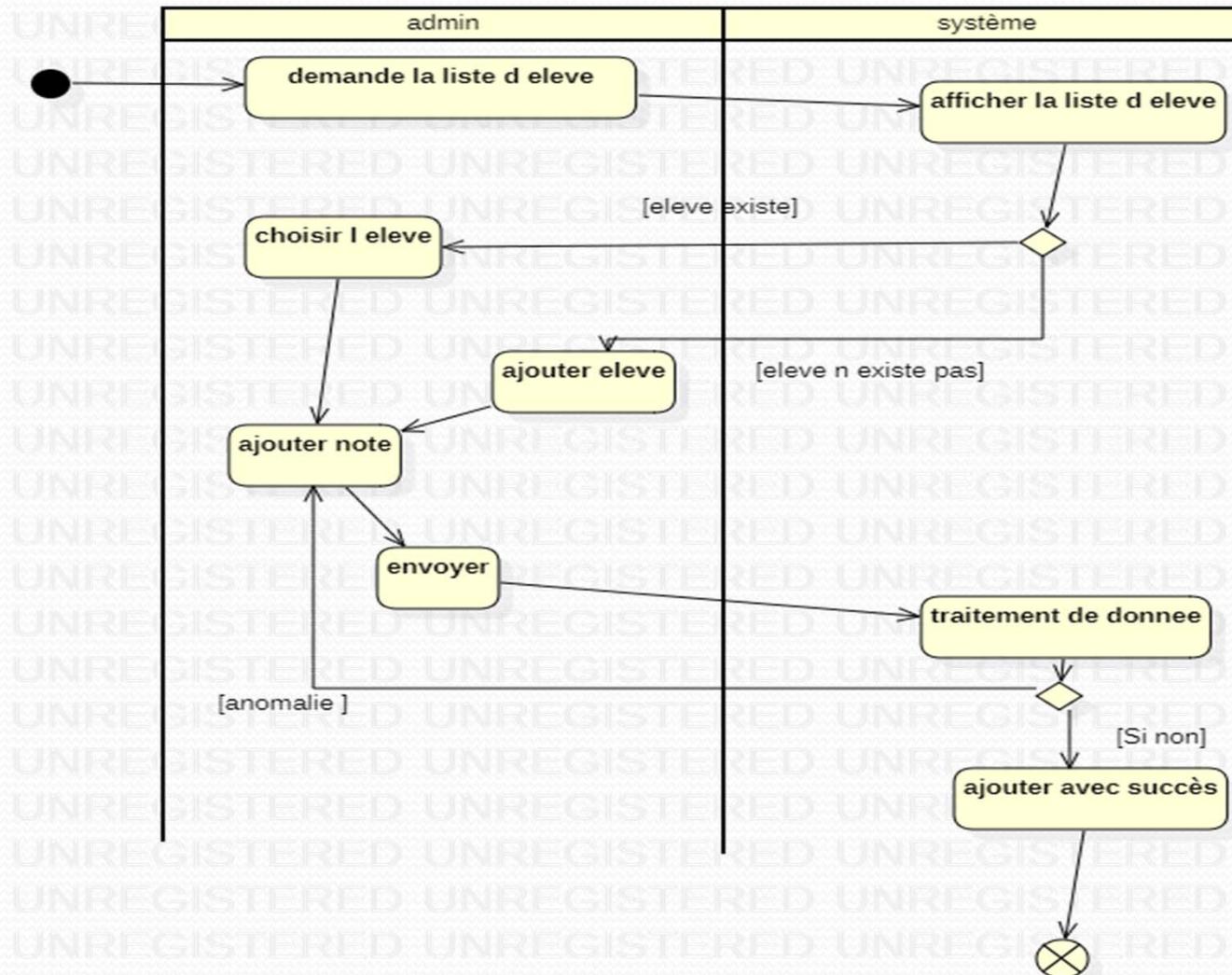
# Design

## Add claim'' sequence diagram



# Design

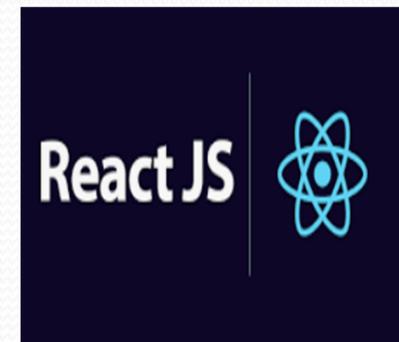
## Assign student grades'' activity diagram



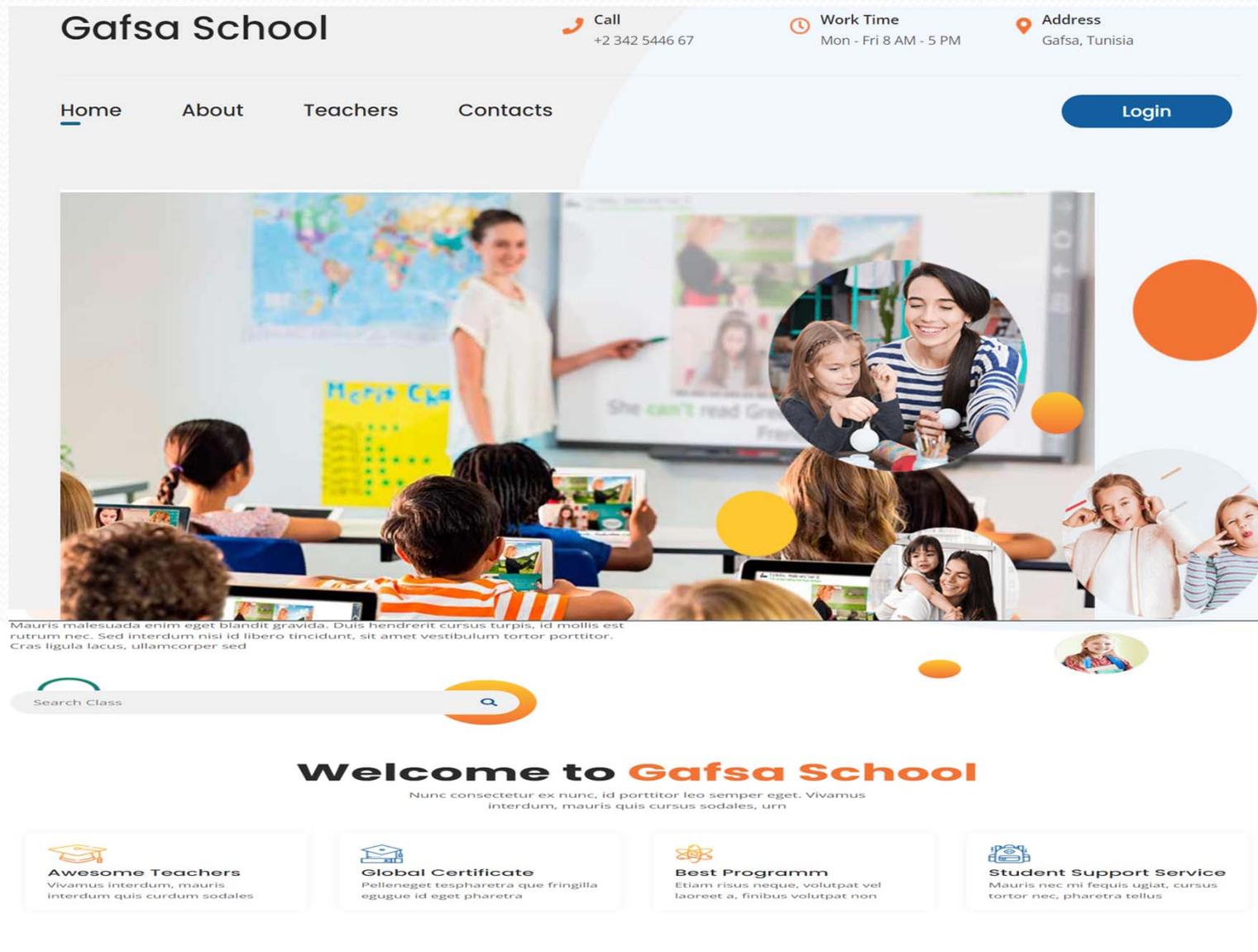


## Realization

### *The software environment :*



## Graphical interfaces



### ■ Home interface

## Authentication interface

**Sign In**

Please choose one of the following users to login

**Parent** Teacher Admin

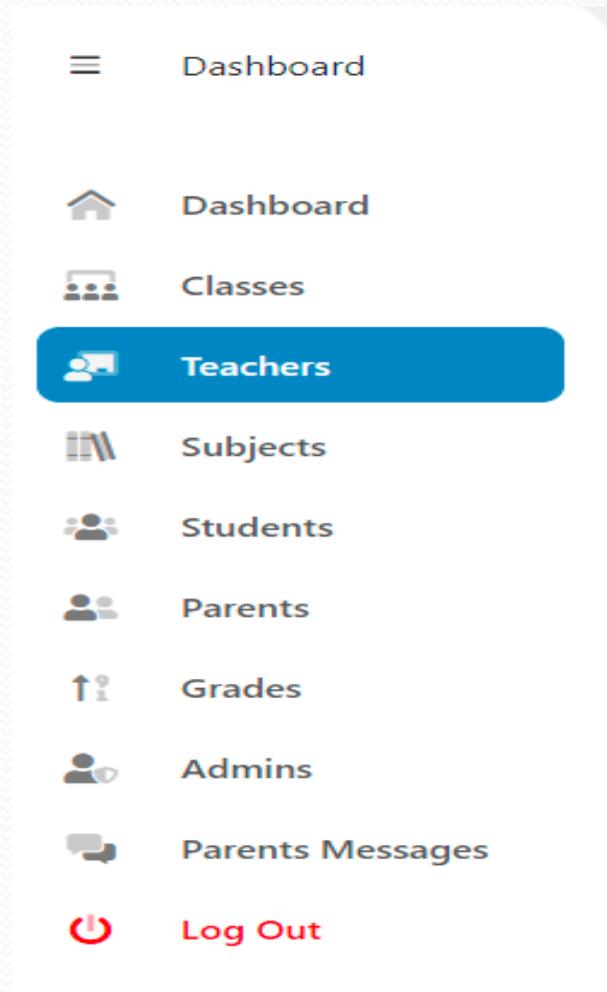
Email

Password

**Log In**

The image shows a clean, modern authentication interface. At the top, the title 'Sign In' is centered in a bold, black font. Below it, a subtitle reads 'Please choose one of the following users to login'. There are three user role buttons: 'Parent' (highlighted in blue), 'Teacher', and 'Admin'. Below these are two input fields for 'Email' and 'Password'. At the bottom, there is a prominent blue 'Log In' button.

## Administrator menu



## Administrator's home page

Dashboard

Home 2022-2-11

**Level 1**

1	112 Students	6 Teachers
	50 Subjects	8 Classes

**Level 2**

2	142 Students	10 Teachers
	5 Subjects	9 Classes

**Level 3**

3	11 Students	29 Teachers
	8 Subjects	800 Classes

**Level 4**

4	122 Students	61 Teachers
	50 Subjects	81 Classes

**Level 5**

5	212 Students	6 Teachers
	20 Subjects	18 Classes

**Level 6**

6	112 Students	16 Teachers
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**Parents messages**

**Hala Slimen**  
Contrary to popular belief, Lorem Ipsum is not simply random text. It has roots in a piece of classical Latin literature from 45 BC, making it over 2000 years old. Richard...

**Aycha Trabelsi**  
It is a long established fact that a reader will be distracted by the readable content of a page when looking at its layout. The point of using Lorem Ipsum is that it has a more-...

**Moursem Chashane**

**Hala Slimen**  
Contrary to popular belief, Lorem Ipsum is not simply random text. It has roots in a piece of classical Latin literature from 45 BC, making it over 2000 years old. Richard McClintock, a Latin professor at Hampden-Sydney College in Virginia, looked up one of the more obscure Latin words, consectetur, from a Lorem Ipsum passage, and going through the cites of the word in classical literature, discovered the undoubtable source. Lorem Ipsum comes from sections 1.10.32 and 1.10.33 of (The Extremes of Good and Evil) by Cicero, written in 45 BC. This book is a treatise on the theory of ethics, very popular during the Renaissance.

ok

## Interface to manage classes

Classes 2022-2-11

Level	Class								
1	Class A1	2	Class A2	3	Class A3	4	Class A4	5	Class A5
	Class B1		Class B2		Class B3		Class B4		Class B5
	Class C1		Class C2		Class C3		Class C4		Class C5
			Class D2		Class D3		Class D4		Class D5
			Class E2		Class E3		Class E4		Class E5

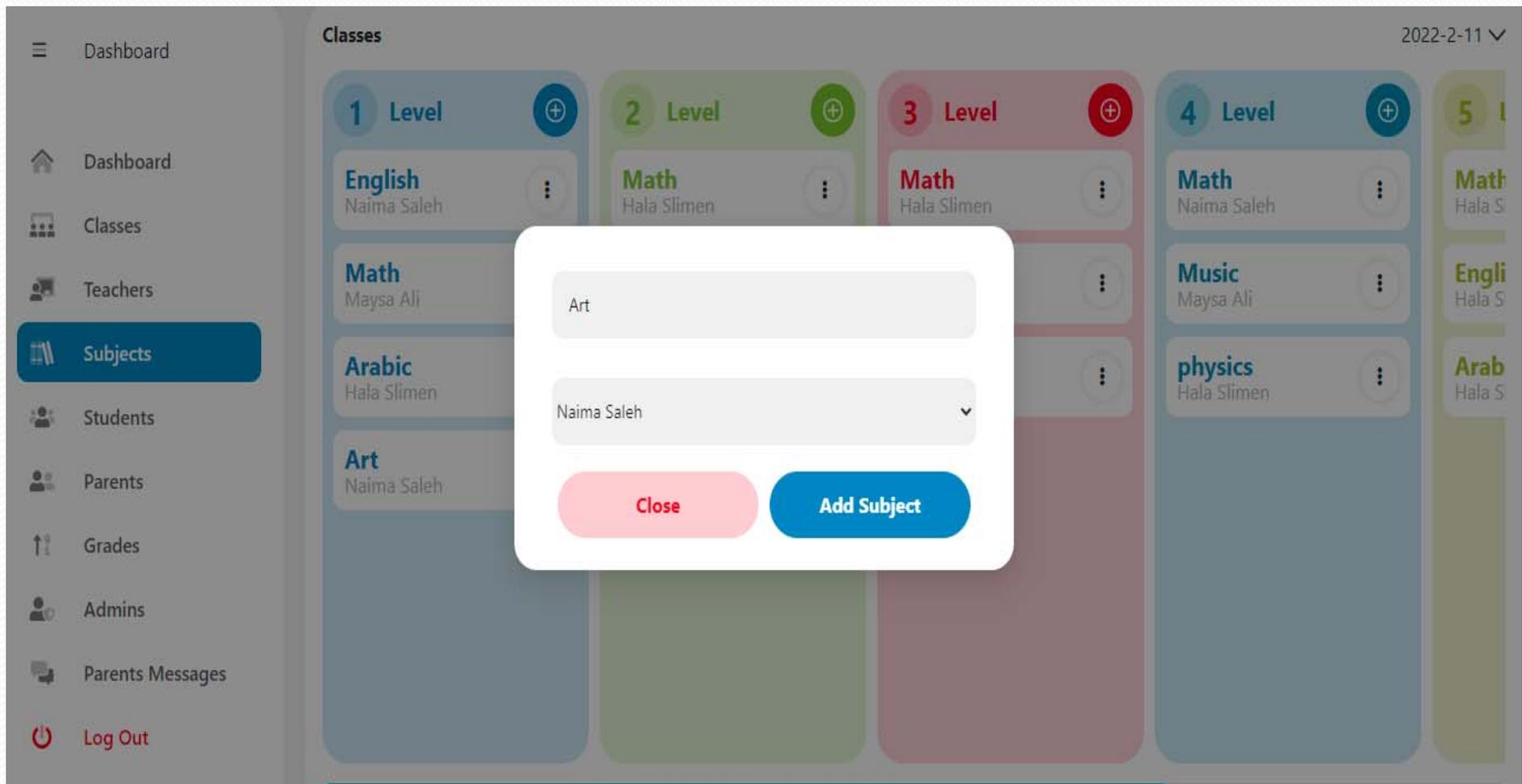
## Interface to manage teachers

Teachers 2022-2-17 \

input search text

Name	Email	Birthdate	Phone number	ID No.	Adresse	
<b>boulbaba ghayoula</b>	adminecole1@gmail.com	1994-10-05	20115412	214192454	Gafsa	
<b>Maha Alim</b>	maha@gmail.com	1994-10-05	20115412	214192454	Gafsa	
<b>Feryel Smida</b>	feryel@gmail.com	2022-06-14	45738383	940455544	Jerba	
<b>Maryem Lotfi</b>	maryem@gmail.com	2022-01-06	56778900	989879887	Tunis	
<b>Naima Saleh</b>	naima@gmail.com	2022-06-14	45738383	940455544	Jerba	
<b>Maysa Ali</b>	maysa@gmail.com	2022-01-06	56778900	989879887	Tunis	
<b>boulbaba ghayoula</b>	ghayoula.boulbaba@gmail.com	2022-02-11	56892743	555686899	gafsa	

## Interface to manage materials



## Interface to manage students

The screenshot displays a web application interface for managing students. On the left is a vertical sidebar menu with icons and labels for various sections: Dashboard, Classes, Teachers, Subjects, Students (highlighted in blue), Parents, Grades, Admins, Parents Messages, and Log Out. The main content area is titled 'Students' and includes a search bar with the placeholder text 'input search text' and a magnifying glass icon. Below the search bar is a table with columns for Name (Level - Class), Birthdate, Birth Number, Parent Phone, and Adresse. Each row represents a student and includes a profile picture icon and three action icons (person, pencil, and trash). The date '2022-2-11' is displayed in the top right corner of the main area.

Name Level - Class	Birthdate	Birth Number	Parent Phone	Adresse	
 <b>Rihab Ali</b> level 5 - Class D5	2022-01-20	546346349	5635635	Gafsa, Tunisia	  
 <b>Ahmad Slim</b> level 3 - Class B3	1994-10-05	294100118	54120228	Gafsa, Tunisia	  
 <b>Mohamed Khalil</b> level 3 - Class B3	2022-01-04	546346400	54635654	Ksar,Gafsa, Tunisia	  
 <b>Aymen Khalil</b> level 4 - Class B4	2022-01-23	654765670	25674789	Metlaoui,Gafsa,Tunisia	  
 <b>Ali Mohamed Ali</b> level 3 - Class B3	5-26-2012	463583659	22565689	Gafsa-Tunisie	  

# Graphical interfaces

## Interface to add a parent for each student

The screenshot shows a web application interface for managing students and their parents. The interface is divided into a sidebar on the left and a main content area on the right. The sidebar contains navigation options: Dashboard, Classes, Teachers, Subjects, Students (highlighted), Parents, Grades, Admins, Parents Messages, and Log Out. The main content area is titled 'Students' and features a search bar and a table of student records. The table has columns for Name, Level - Class, Birthdate, Birth Number, Parent Phone, and Adresse. A dropdown menu is open over the 'Parent Phone' column, showing a list of parent names and phone numbers, with 'No Parent' selected.

Name	Level - Class	Birthdate	Birth Number	Parent Phone	Adresse
Rihab Ali	level 5 - Class D5	2022-01-20	546346349	5635635	Gafsa, Tunisia
Ahmad Slim	level 3 - Class B				Gafsa, Tunisia
Mohamed Kha	level 3 - Class B				Ksar,Gafsa, Tunisia
Aymen Khalil	level 4 - Class B4				Metlaoui,Gafsa,Tunisia
Ali Mohamed Ali	level 3 - Class B3				Gafsa-Tunisie



## Conclusion

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

