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1 Introduction

This is an application to browse and evaluate university courses, called **Student-Evaluation**.

The application is developed to allow students (users) to view all the courses of a specific university with related comments.

Looking the table on the right side, a user can browse all subjects and by clicking an element of this table, on the left section, the user can see more information about the chosen element: general information and comments.

In order to filter the list of subjects, there is a choice box, thanks to which the user can select a specific degree course.

In order to leave a comment, it is necessary to log in, otherwise, the application will allow interaction in read-only.

There are two buttons in the bottom left corner to allow students to update or delete their comments. There is no form to register into the application, it is assumed that users are already registered into the system, but there is an administrator that can add, update and delete subjects and all the informations related.

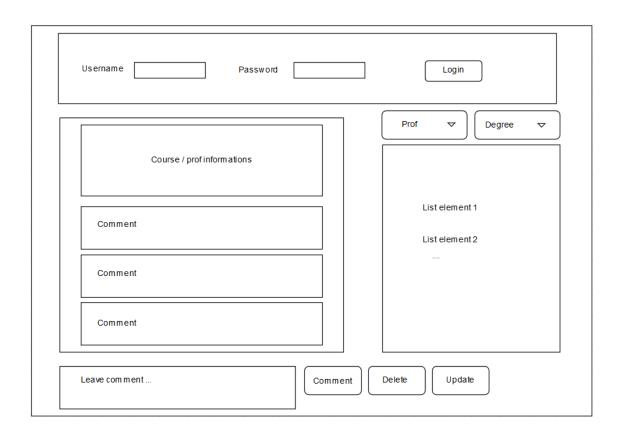


Figure 1: Mockup

2 Analysis and workflow

2.1 Requirements

2.1.1 Functional requirements

The system has to allow the guest to carry out basic functions such as:

- To select a course from the list and view information and comments.
- To select a degree course from the list, filtering subjects.

In addiction to the guest functions, the system has to allow the user to carry out basic functions such as:

- To login into the system.
- To upload comments on a course.
- To update a comment of a course only if the user is the owner.
- To delete a comment of a course only if the user is the owner.

The system has to allow the administrator to carry out basic functions such as:

- To login into the system.
- To add a course.
- To update a course.
- To delete a course.
- To associate to a course a professor.
- To delete any comment.

2.1.2 Non-functional requirements

- Usability, ease of use and intuitiveness of the application by the user.
- Avaliablility, with the service guaranteed h24.
- The system should support simultaneous users.
- The system should provide access to the database with a few seconds of latency.

2.2 Use cases

Actors

• Guest : this actor represents a user who is not logged into the system

 \bullet Student : this actor represents a user who is logged into the system

 $\bullet\,$ Admin : this actor represents the administrator of the system

2.2.1 Use Cases Description

Event	UseCase	Actor(s)	Description
Log in, Log out	Login,	Admin, Student	The user logs in/out the application. The system
	Logout		browses the professors' list by the degree course
			of the logged user and returns it on the interface.
View all the sub-	Browse,	User	The user chooses that he wants to view the list
jects	Find,		of all subjects. The system browses the data on
	View P/S		the db and returns them on the interface.
View the comments	Browse,	User	The user clicks on a record of the subject table.
and information of	Find,		The system browses on the db the comments re-
${ m a~subject}$	View C		lated to that subject and returns them on the
			interface.
Add a comment	Add C	Admin, Student	The user submits the text of his comment. The
			system updates the db and the interface.
Update a comment	Update C	Admin, Student	The user selects the comment and commits the
			new text. The system updates the db and the
			interface.
Delete a comment	Delete C	Admin, Student	The user selects the comment and submits the
			delete. The system updates the db and the inter-
			face.
View the subjects	Browse,	User	The user selects from the choice-boxes the degree
by degree	$\operatorname{Find},$		course and the list (subjects) he's interested in.
	View P/S		The system browses on the db the subjects fil-
			tered by the chosen degree and returns them on
			the interface.
Add a subject	$\operatorname{Add} P/S$	Admin	The user submits the name and other information
			of the new subject. The system updates the db
			and the interface.
Update a subject	Update	Admin	The user selects the subject and commits the new
	P/S		information. The system updates the db and the
			interface.
Delete a subject	Delete	Admin	The user selects the subject and submits the
	P/S		delete. The system updates the db and the inter-
			face.

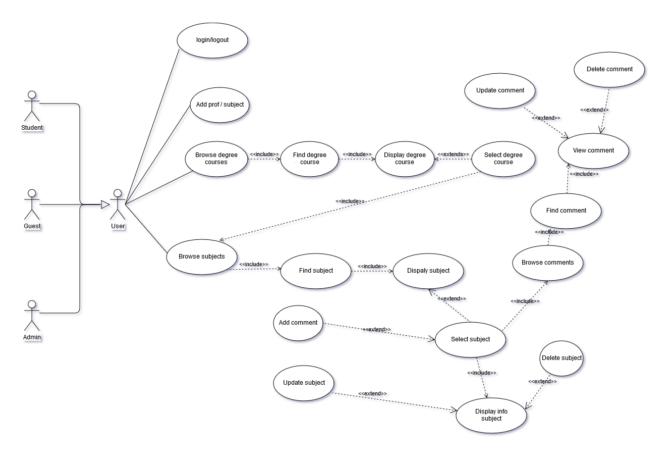


Figure 2: Use cases diagram

2.3 Analysis class diagram

This diagram represent the main entities of the application and the relations between them.

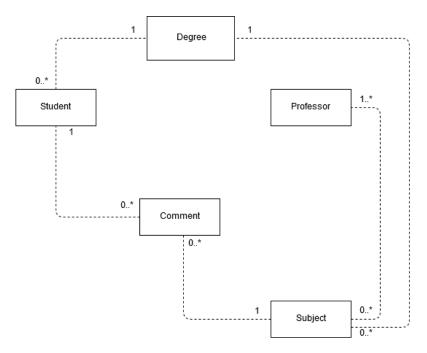


Figure 3: UML analysis diagram

3 User Manual

When you first run the application, the interface you get is the one in figure 4.

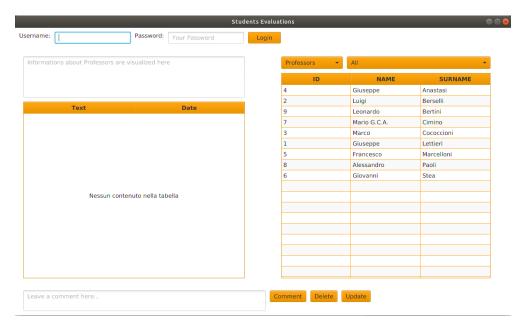


Figure 4: First view of the application

The default display includes the list of all registered professors in the table on the right. You can choose to display the professors of a single degree course, using the drop-down menu on the right (fig. 5), or decide to view the list of subjects (fig. 6), for which is also available the degree course's filter.

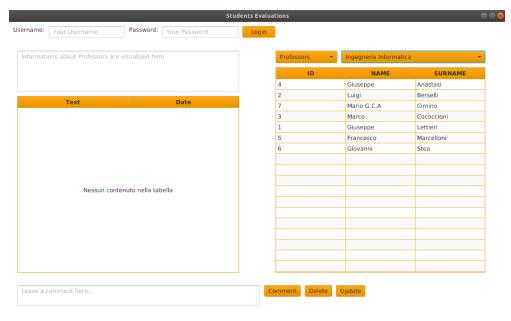


Figure 5: Selection of professors filtered by "Ingegneria Informatica" degree course

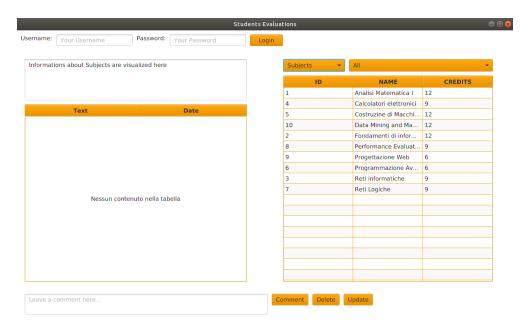


Figure 6: Selection of subjects

If you have a registered account, you can log in to the application, so that the comments' operations aren't blocked. Enter your username and your password in the suited fields at the top and click on "Login" (fig. 7).

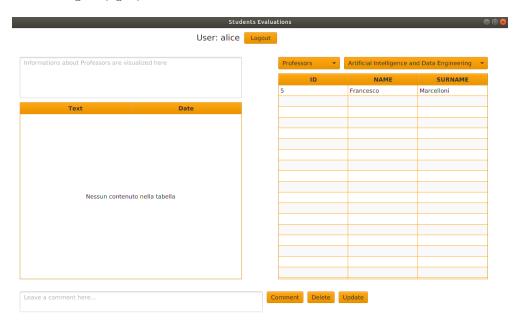


Figure 7: Application interface after the user "Alice" has logged in

If you now want to be able to see the comments associated with a particular professor, you have to click on the name of the professor: in the table on the left the list of comments already received will appear (fig. 8). With this operation, you'll be able to visualize also the information related to that professor.

To leave a comment, you need to enter the text in the field below the table and then click on the "Comment" button. The result obtained from these operations is shown in fig. 9.

You can also decide to modify the comment you just uploaded or another comment you made on a previous session. To do so, you need to click on the comment you want to update, change

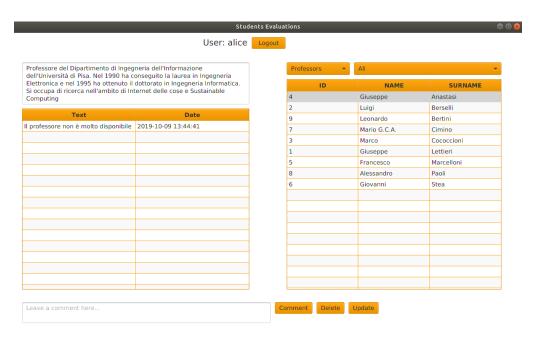


Figure 8: Displaying the comments related to a professor

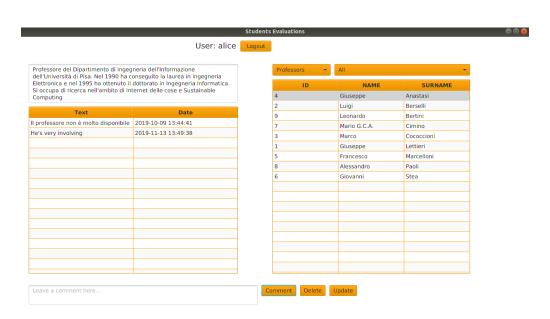


Figure 9: Interface after adding a comment

the text in the field below the table and then click on the "Update" button (fig. 10). Finally you have the chance to delete your comment, by clicking on "Delete" after selecting it. Notice that you can modify or delete just the comments that you made.

The operations of adding, updating and deleting work as well for the the subjects' comments.

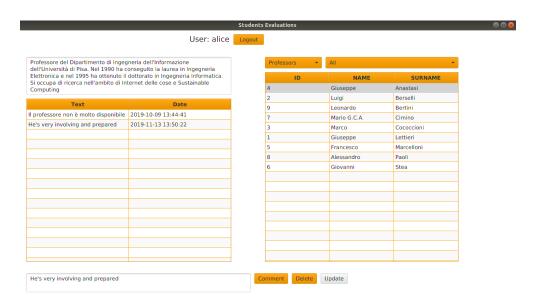


Figure 10: Interface after updating a comment

To log out, just click on the appropriate button at the top, next to the user label.

Moreover, if you don't have a registered username, you can still browse through the application, search for professors 'and subjects' information and read all comments. You are just unable to leave or change any comments.

3.1 Admin Manual

If you have an admin user, you are entitled to make changes both on the professors' and the subjects' lists. You need to log in inserting your username and password, and the application will recognize you as the administrator and show up the buttons for modifying the data (fig. 11).

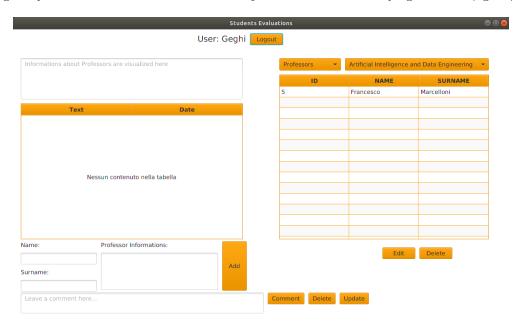


Figure 11: Interface after the administrator has logged in

You can choose to add a new professor, using the input fields at the bottom left. You have to specify the name, surname, and description, then press the "Add" button (fig. 12).

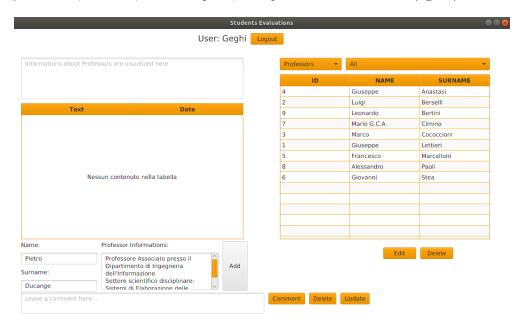


Figure 12: Adding a new professor

You can also modify the data related to a professor: click on the professor you are interested in and change the information shown in the apposite input fields. Finally, you have the chance to delete a professor by clicking on the "Delete" button after selecting the wanted professor (fig. 13).

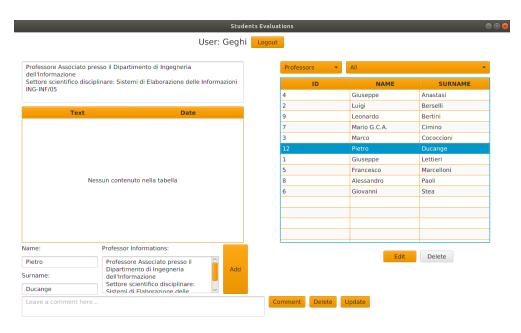


Figure 13: Screen of the application's interface from which you can either update or delete a professor

All these operations are available for the subjects as well. The only difference is that when you want to add a new subject you also need to specify the id of the professor teaching it (or a list of ids, separeted by commas, if there are more professors teaching it). Moreover, you must have precisely displayed in the table the subjects of the same degree course of the new one (fig. 14).

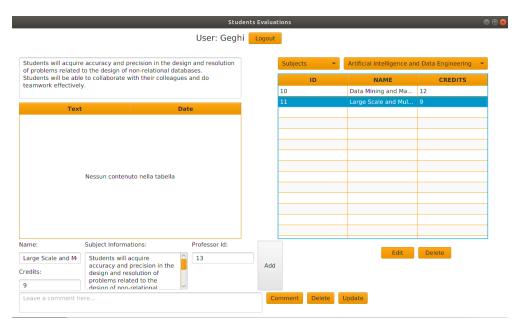


Figure 14: Interface after adding a new subject, ready to modify or delete it

The administrator can delete comments posted by all the users, too. Just click on the comment and then on the "Delete" button (fig. 15).

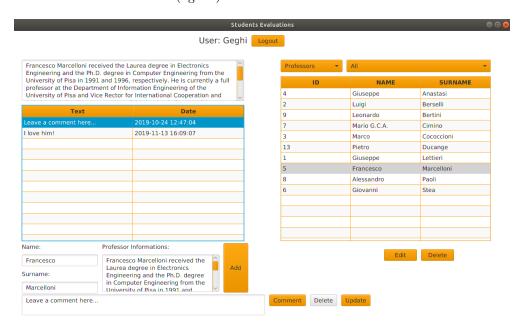


Figure 15: Screen of the application's interface from which the admin can delete a comment