UNIVERSIDAD DE LAS FUERZAS ARMADAS ESPE

Computer Science

SOFTWARE ENGINEERING

ACTIVITY

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Object Oriented Programming – NRC: 7996

Unit N°1

SANGOLQUÍ – ECUADOR

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Problem:

We need a student's grades control system that allows the teacher to record an academic history of students with their respective personal data and that can be added or removed.

To understand what our program needs to do, we need to delve deeper into the grading methods of a traditional educational system.
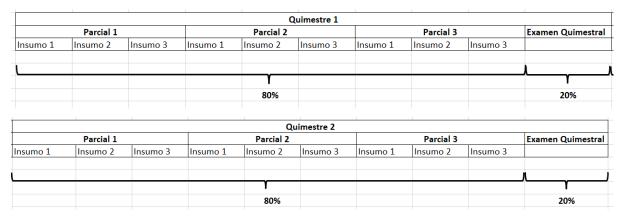
Overview:

In the educational field, the teacher is the one who evaluates his students through grades which the student will want to observe at some point and that the teacher has the ability to modify all the grades. These grades are born from the activities that the teacher creates for his students.

Background:

We all know how important grades are for a teacher and for a student at highschool, not only because it is the most important requirement for a student to graduate, but also so that the teacher in charge of the subject can have an individual academic follow-up of the students, to know if the knowledge imparted by this same teacher is being useful for the students.

Thanks to all of these scorecards; teachers can choose another method of teaching, becoming very beneficial for both students and teachers.

Taking all this into account, we will now see the most common methodology that teachers use to control grades in schools.(The same method that we will use for our system).

Quimestre 1									Examen Quimestral
Parcial 1			Parcial 2			Parcial 3			
Insumo 1	Insumo 2	Insumo 3	Insumo 1	Insumo 2	Insumo 3	Insumo 1	Insumo 2	Insumo 3	
				80%					20%

Quimestre 2									Examen Quimestral
Parcial 1			Parcial 2			Parcial 3			
Insumo 1	Insumo 2	Insumo 3	Insumo 1	Insumo 2	Insumo 3	Insumo 1	Insumo 2	Insumo 3	
				80%					20%

To calculate the semester grade, you have to take an average of the three partial grades obtained, this value is multiplied by 0.80, since we are talking that the three partials are equivalent to 80% and the semester exam is multiplied by 0.20, since that we are talking about that the quimestral exam is equivalent to 20% of the quimestral average and then we sum those two grades. To conclude we must simply add the 2 semester grades and divide them by 2 and we will obtain our final average.

The system will also make an order so that teachers can be guided at the time of uploading the grades of each of their students, for this the system orders from the first surname of the student, thus facilitating the work of the teacher.
Likewise, in order to be able to send and visualize their grades, students will be asked to enter certain data such as their full names, e-mail address, age and gender, and teachers will also be asked to enter their data to use the system such as their full names, their ID number and the subject they are teaching together with the course to which the grades are indicated.

Interview URL:
https://youtu.be/EUsAvTF4ObM