System Description

InClass

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OBJECT ORIENTED PROGRAMMING

Problem

Santiago Valencia is a teacher at UFA ESPE, he would like to have an application called InClass in which he can organize his teaching tasks in a single environment, where both Santiago and his students can access information easily and there is evidence of their work.

To understand what the program should do, we first need to understand how the teacher needs to manage the data and follow up on it with the students, how to provide assistance to the students, what the tutorship procedure is, how to verify that the teacher has completed their work and how each student can be identified.

Overview

In an educational environment, teachers are responsible for evaluating students and giving feedback on their progress, through grades, attendance control and tutorships, while administrative staff require tests to verify the teacher's work. This group requires access to all the information obtained during an academic period.

Background

In an educational environment, the proper organization, identification and management of data is important to carry out a record and control of everything that happens.

Each student must contain the following information: full name, citizenship card number, ESPE ID

A course must contain the following information: course name, nrc, number of students, list of enrolled students

The records that serve as evidence for the administrative staff of the work done by the teacher must include the following information: student attendance, grades, and tutorships carried out during the academic period.

They represent a significant value of student performance with a maximum score of 20 which is assigned by teachers, students fail the subject when their grade is less than 70% of the established maximum.

Attendance control helps to verify the presence of students in the classes taught by the teacher, having the possibility for the teacher to mark the presence, absence or justified of a student if the student fails the subject with a percentage higher than 20%. in fouls.

Tutorships are extra classes carried out by the teacher with the assigned students, these can be requested by the students through a request document.

Due to the fact that it is necessary to measure if the quality goals that are set in the standards that students are expected to achieve are being met, a system is required which allows qualifying the activities that will be carried out during the determined academic period, each activity will be evaluated solely and exclusively by the teacher on a note of 20 points and will be made known to the students through said system.

The teacher in charge will record the attendance of each student, the form required to record attendance is: present, unjustified absence (did not attend and also did not present any document that justifies his absence), justified absence (did not attend but presented a document which justifies your absence).

In order for students to improve their academic performance, they may request tutorships from the teacher on a voluntary basis, on the other hand, students who do not meet the adequate academic performance that will be reflected in their grades, must take mandatory tutorships; the system will be in charge of making known to the competent teacher those students who must comply with the mandatory tutorships.

The administrative staff will be in charge of monitoring the teacher to verify that the activities scheduled for the academic period are being fulfilled, for which the teacher needs to share an attendance record and a note record of all students to evidence their compliance. in the institution, in such a way that said documents will be provided by the created system.

The administrative staff must maintain good communication with the students since they will be in charge of maintaining and providing the information that the students require, such as the registration of their grades, enrollments, approval of subjects, information from the teachers and various works that are qualified in the course. respective system. If necessary, doubts and problems that the student may have should be answered, it is a fundamental part that the administrative staff maintains a follow-up with the student that there is evidence about the academic period.

It is necessary to know the requirements to be able to use them in the application, therefore the relationship between the teacher and the developers must be professional, trying to maintain clear communication in order to obtain a result that is appropriate.

Analysis

The system will create records for each partial throughout the semester that will contain the information of the students such as their name, DNI, ESPE ID. In addition, you will be able to find data such as the attendance, delays or absences of the student, their grades and the tutorials that have been carried out throughout each partial.

All this information will be saved in a file that can be uploaded to the Moodle platform, with the aim of verifying the fulfillment of the teacher's work with the students throughout the semester, that is, all the data that is registered in the system and in the end the teacher will be able to download them through the generated records.

The system should only allow the teacher to add and edit grades, which should be divided by workshops, homework, tests and exams in three units, at the end of the academic period an average is obtained, to check whether the student passes the course or not.

The system must allow the teacher to keep a record of the attendance of the students to their classes, for which they can register the students as present, absent or justified, if the student presents 20% of registered absences, they will fail the subject.

Students will have the possibility to request tutorials from the teacher, for which the system must generate a request addressed to the teacher.