**Design-1 Student Education Evaluation and Feedback Systems**

**By Dreamteam**

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**Background**

With the development of society and the popularization of education, more and more people have received university education. It is necessary to design a tracking system to evaluate the quality of education provided by universities. Therefore, our group designed a simple application to collect basic data of students and their feedback, then analyze this data and find out what improvements have promoted the growth of graduates. For example, if the data collected shows that students with this higher GPA will get higher salary and satisfactory jobs than other students with low gpa, then the analysis results suggest that how to improve the student's gpa will be very important. If the strategy works (students perform better in terms of academics and salary five years after graduation), the strategy can be used in the next few years. Conversely, if a student with a high gpa does not get a higher salary and a satisfactory job than a student with a low gpa, then consider making changes in other areas.

**Time sequence & description:**

We have designed five main interfaces in this application, including teacher feedback interface (teacher-to-student evaluation), student feedback interface, student information interface (providing course review and activities they completed), and course feedback interface (including Teacher feedback on all courses for students), information search interface (including all data). Again, the most important part is probably the analysis system that is inaccessible to all users. The analysis system works by collecting data from the student feedback interface, the teacher feedback interface (some data comes from the professor information interface), and the course feedback interface. After collecting the data, we decided to save it in a specific format using a file or database. After that, we can analyze the data when needed.

As for the sequence diagram, we have drawn the entire process describing the connections between the analysis system, the student system and the staff system (alias, including the professor or staff interface). The process works as follows: First, we collect data from students who have graduated for five years, such as their feedback and assessments and their gpa during their student days. Second, get the lessons that the students took and the corresponding teachers. Through similar data collection, the analysis system will make corresponding suggestions for us. In the end, it can be directly reflected in student feedback. For example, five years after graduation, the association between students and their gpa, and the courses they take are related to job satisfaction. When enough data has been collected, we can use the data of newly graduated students to check whether the strategy we used is effective. In addition, we may automatically change the judgment conditions of the analysis system.

**Object: Attributes/ type/ methods/**

In this student education evaluation and feedback system, we use many objects to make the system more practical and practical. We set up 14 objects and 4 lists. We will introduce our objects to users. First of all, these 14 objects are educational institutions, syllabuses, teachers, courses, students, course feedback, teacher feedback, staff feedback, company, assessment, position, salary. The four array lists are StudentList, CourseList, teacher evaluation list, and student list. Each object has an ID to find the object. It is a required property for one object to obtain another. Then, we use getter and setter methods to get and set the get date. The course list includes all course information and they are the main influencing factors. We consider feedback and salary to be the most important factors in assessing a student's education. We try to make the most of this information and preset many objects. We take full account of the evaluation system, so please do your best to make the audience adequate. The method we used was not sufficient to fully implement this evaluation system.

However, this is our preliminary design, we must omit and need some additions, and we will gradually improve our system. This is the first version of our design and we will make the system more and more useful for evaluating education.

**Summary**

We have designed the system to evaluate factors that affect student job satisfaction after graduation in order to get more feedback on school curriculum and student self-factors. In this design report, we use UML and chronological order. We aim to build a useful system to achieve our goals. Moreover, we will still modify the objects and functions to make our system more practical.