Evaluate the quality of education

Our group’s model has target to perform a solution to enable universities to measure the quality of the education they deliver to their student. The approach will be to investigate how an educational system in terms of faculty and courses contribute to the growth of their graduates over a 5-year period. We have tracked those graduates’ career life including jobs position and promotions over times and assign rankings accordingly. In addition, we have tracked the connection of courses and their relevance to graduate’s growth. Also, we have study the relationship between GPAs and industrial success.in addition.

**Object Model：**

The object model of out model has showed in the below.图片包含 文字

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There are three classes under the University class, Faculty, Course, and the Students. Course has stored all the course data from CourseOffer by each line. Faculty could get their courses data by using their Course ID which included students and average GPA, ect… and those data could save in the Faculty Directory.

Student class could pull the GPA of their taking classes by using their Student ID and the Courses ID, they could also collect data form EmploymentHistory which have been gathered by a survey that filled up by student who graduated 5 years ago form this university. With both data from those two paths, the completed data for each students will all added in the StudentsDirectory.

We have set the academic units as department and sort students under each department. Our dashboard could enables college and university administrators to compare the performance of their academic units. We could analyzed the relationship between students academic skill and their .we are using the algorithm to calculate the standard quality of each department, with 40% of their career life (employment rate, promotions, etc…) and 60% of students average grade. We could generate the sequence with each department, and make a ranking.

About how to apply the digital ideas and solutions to k-to-12 educational systems, we could just change the employment as university enrollment rate and change the promotion and other related properties to university GPA.

**Interfaces**

The first one is selected which year of the graduated students.

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This one is to show the rank of the department, department average GPA and their students’ employment rate.

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By selected the department, we could see all the students’ information in this department.

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By selected one person, we could see all the courses have been taken by this student, and also the GPAs and the recent state of their career life. 图片包含 屏幕截图

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We can also view the students’ employment history

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**Sequence diagram**

