Description:

In order to create a performance measurement solution to enable universities to measure the quality of the education they deliver to their students, we extend and modify the school system introduced on class to connect various information of students and calculate the quality of courses.

The system contains 8 entities as listed in the object model:

1. Student: The Student entity contains basic information such as Name, Student ID, Graduate year to identify each student. Students can also consult their grades and employments here.
2. Student Directory: Lists all the students involved in the system.
3. Course Offer: Represents a course that is being offered in a given semester. Contains information like teacher.
4. Transcript: Represents all the students and the GPA they get in each course they take.
5. Employment: Represents the basic information of students' employment after graduate, such as Job Type, Salary, Company, etc.
6. Employment History: Gather all the employment records of students.
7. Company: Contains the basic information of the company where the student is in. Like Company Name, Company Ranking.
8. Ranking: Contains the ranking of both students and coursed. Gets data from Course Offer and Employment then calculate the quality of education.

In this system, students can log in to add and view their information. Administrators can add, view, modify, delete information of students, and view the final quality assessment of education.

Student's performance in school will be saved in the Students, Seat Assignments, Seat, Course Offer and Transcript entities. His employment performance will be added to the Employment, Employment History and Company parts. When the employment performance was read by the Ranking entity, the Ranking entity will evaluate the data like Salary, Company Ranking, Company Location to and give a grade and ranking of student's employment performance. Also, the Ranking entity will read the courses the student takes and the GPA he gains. Then the employment grade and the student GPA will be combined and considered to give a grade to a certain course, which is to assess the course quality.