Performance Measurement Solution for University

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PURPOSE

The goal of the project is to create a performance measurement solution that enable universities to assess the quality of education they deliver to their students. Performance tests of the students are used to determine the implementation and outcomes of the education system in the university. It provides useful information on how well the students are performing in their program, how good are the courses and in the departments and if the faculty and staff are well trained and meeting their institutional goals which contribute to the performance growth of the students.

PROPOSED SOLUTION

- Provide a platform of ranking systems that enables the university and college administrators to compare the performances of their academic units respectively.
- To track and monitor the performance of students in the college
- To track the jobs and promotions of the alumni students from particular college and department.
- Allows to monitor the improvement in the quality of education.
- Allows to monitor how faculty and course contribute to the performance growth of the students.
- Both performance and process data could be reported back to teachers and students such that they could diagnose and understand how they performed and what problem-solving processes contributed to or detracted from their performance.

BUSINESS RULES

- Only one account per student to assess the performance in the semester.
- Student profile consisting of details about the department, courses enrolled, faculty and credits per semester wise.
- Ranking system criteria that tracks and monitors the grades of assignments and tests performance in each course.

DESIGN DECISIONS

Entity Name	Why Entity Included	How Entity is Related to Other Entities
Person	*Person* is an entity which stores important information about the user like Id,name,email,mobile,fax,address ,gender and ,date entered.This information is vital as one person can have only one unique Id and it is the base for Student and Faculty entity.	Each Person's data is stored in the *Person* entity. It is used to contain the basic information of the person that can be either a student or faculty of the university.
Student	*Student* is an important entity that forms the basic building block of our solution. It contains studentinfolike GPA,current salary,job role,total experience,course catalog list,graduate year,department and ranking .It is used to get the student information required to measure the performance.	*Student* entity extends Person Entity. It is related to Department ,Course and Job experience entities that reflect the student-department-course relationship that is used to assess the courses taken in the department and student-job experience relationship that reflects job role and salary which is an important factor for performance measure . .

Faculty	*Faculty* entity contains faculty info, course list, qualification, years of experience and specialty of professors and lecturers.	*Faculty* entity has one to many relationships with Person, Course and Department. Used to get the faculty info regarding the courses taken and specialty and experience that reflects quality of their teaching.
Course	*Course* entity is vital part of the system. It contains course Id,name,type,credits,departmentlist,average grade,faculty involved which is offered to students.	*Course* has many to one relationship with Student,Faculty and Department entities. It is used to get the studentlist,faculty list and department list associated with it and has the evaluation student feedback function used as a factor towards performance assessment
Department	*Department* entity contains department name, code, faculty, student and course information.	*Department* has relationship with student,course,faculty and college entities.It is used to get faculty info and course info in relation to the list of students in the department and has search department functionality
College	*College* entity contains college id,name,phone number,address and list of departments.	*College* entity has one to one relationship to department and university entity. It is used to get department info and includes search colleges functionalities.
University	*University* entity contains university name,code and list of colleges.	*University* has one to one relationship with College entity. It is used to get the list of colleges under them.
Job Experience	*Job Experience* entity contains company id,name,salary,position,duration,	*Job Experience* has one to one relationship with Student entity.It is used to get salaryhike and jobless period which is used as an

	joining date,grade,leave date information.	important factor to determine the performance .