

INFO 5100: APPLICATION ENGINEERING AND DEVELOPMENT

UNIVERSITY PERFORMANCE EVALUATION SYSTEM

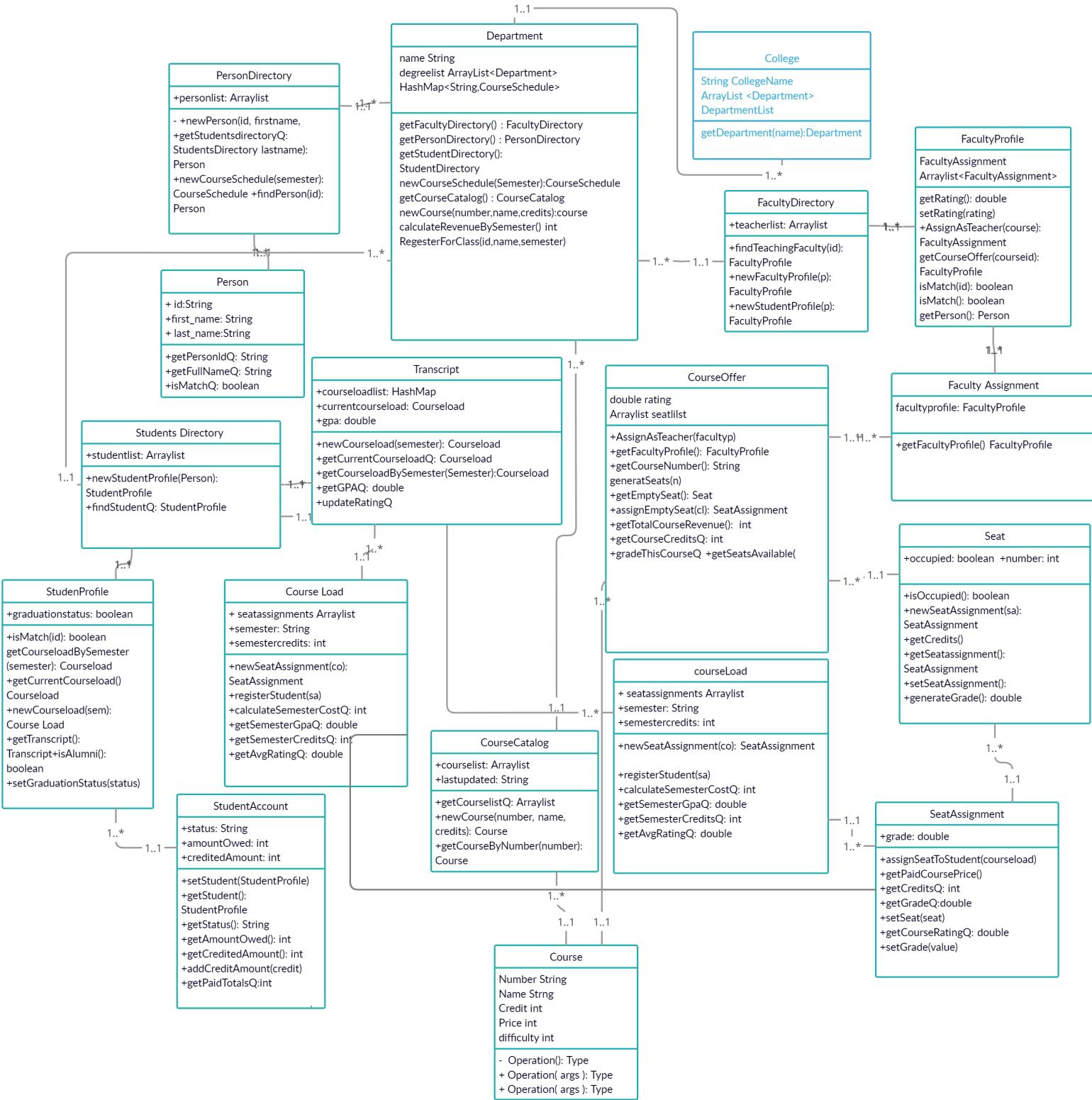
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INTRODUCTION

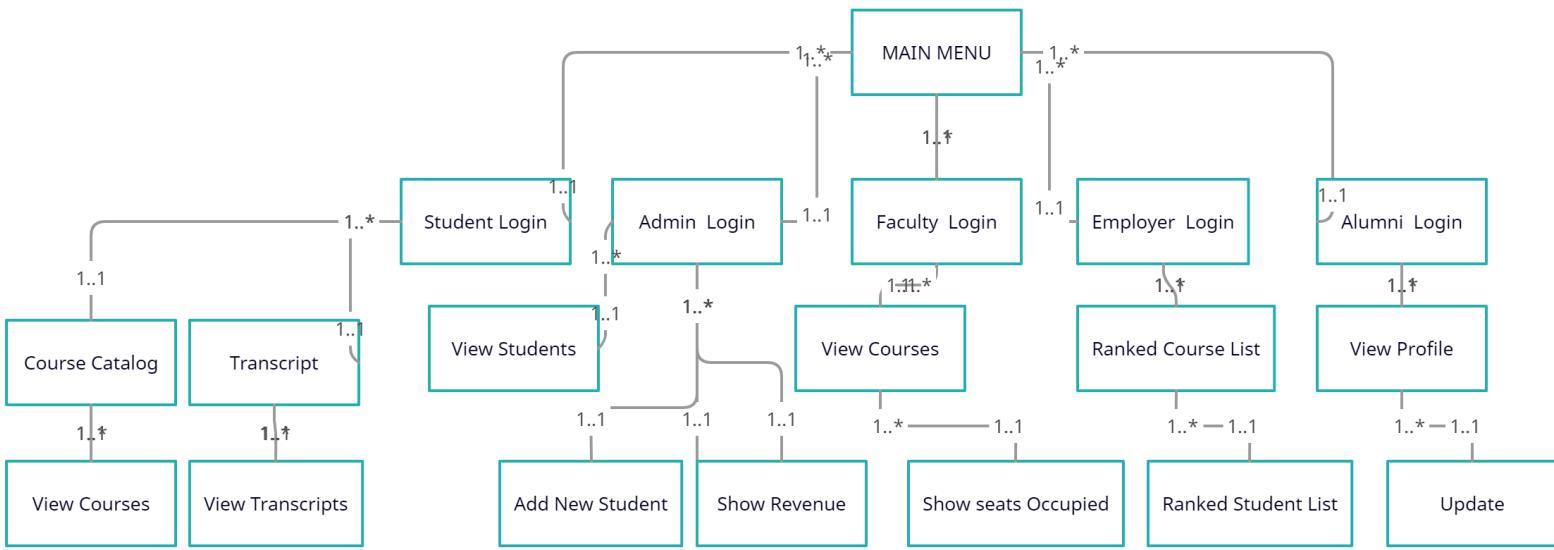
The objective of this assignment is to convert a university model design into a digital system, and use techniques to improve the quality of education in a university setting anywhere in the world. In the proposed Ranking model, we take ratings and feedback based on various metrics, so that the university can keep its education system up to date with the current industry trends. We take into consideration the courses, faculty, and employers, and how contribute to the growth of students over a period of 5 years. The relevance of the courses and GPA to industrial performance is considered.

The UML and sequence diagrams aid in understanding the flow and approach of the system. The dashboard that's created, gives a way for administrators to monitor and compare the results of success based on all the factors so that they can make necessary changes to further improve the performance of students in their university.

CLASS DIAGRAM UML



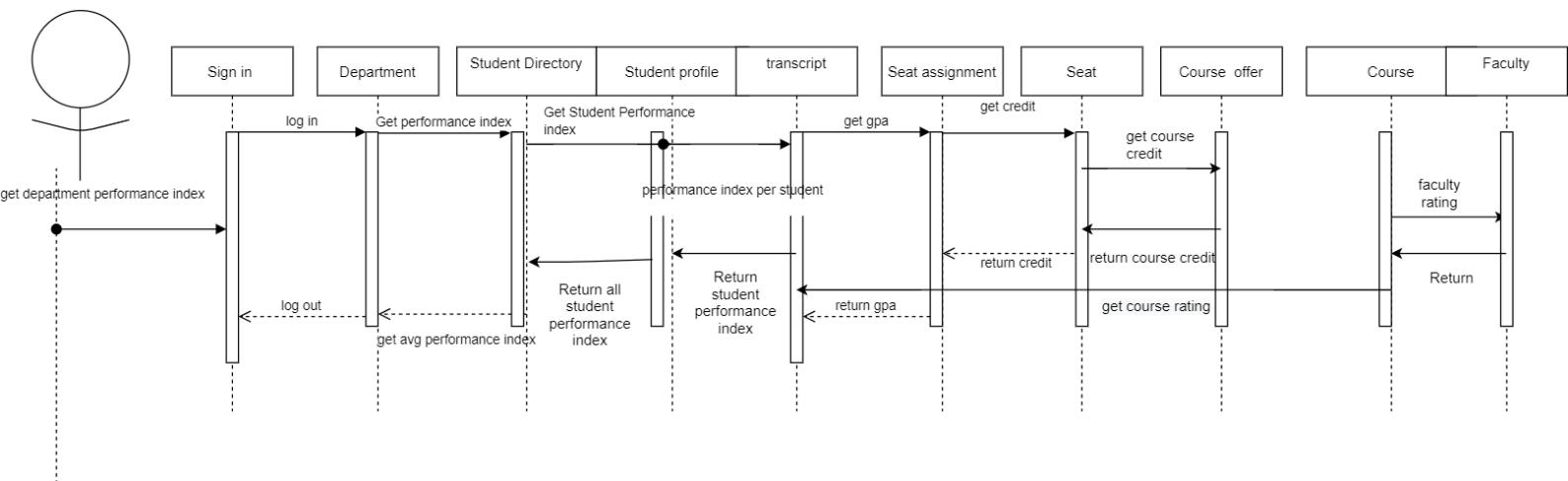
OBJECT DIAGRAM



SEQUENCE DIAGRAM UML

Sequence Diagram :

Department/Student performance index based on student and course rating

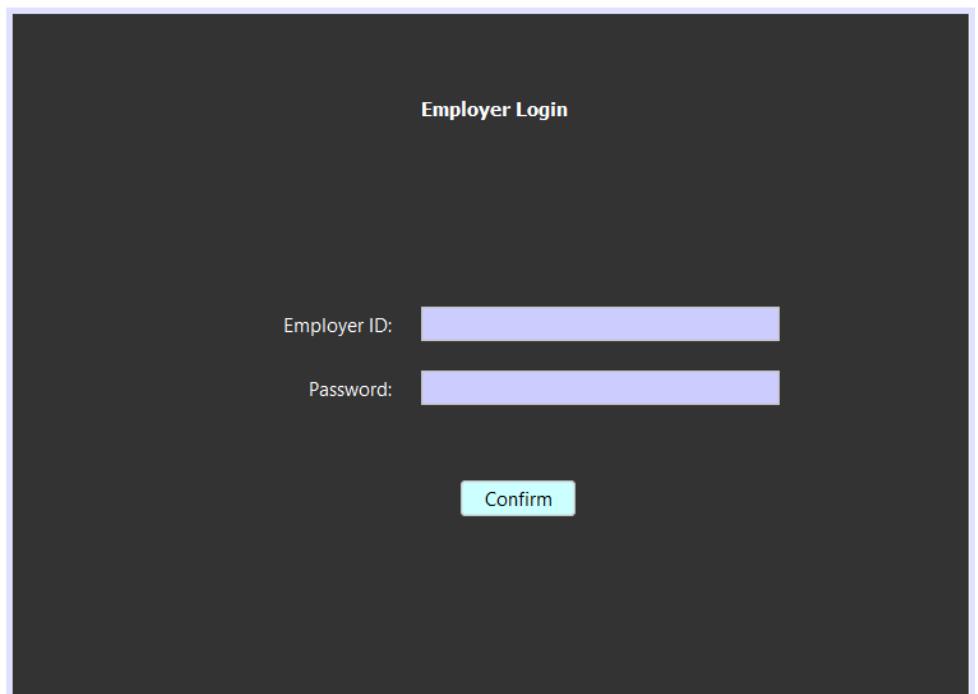


METHOD EXPLANATION

Administrators can view matrix for two different lists: Student and Alumni. If the Student matrix are selected, a course list will be displayed according to the course ranking. On selecting a particular course the admin/employer can view a Student list in which students are ranked on the basis of performance for the duration of their program. If Alumni matrix are selected an Alumni list will be displayed, the Alumni being ranked on the basis of their job performance (position, promotion etc). On selecting a particular alumnus you will be able to view their complete profile including courses taken and overall GPA.

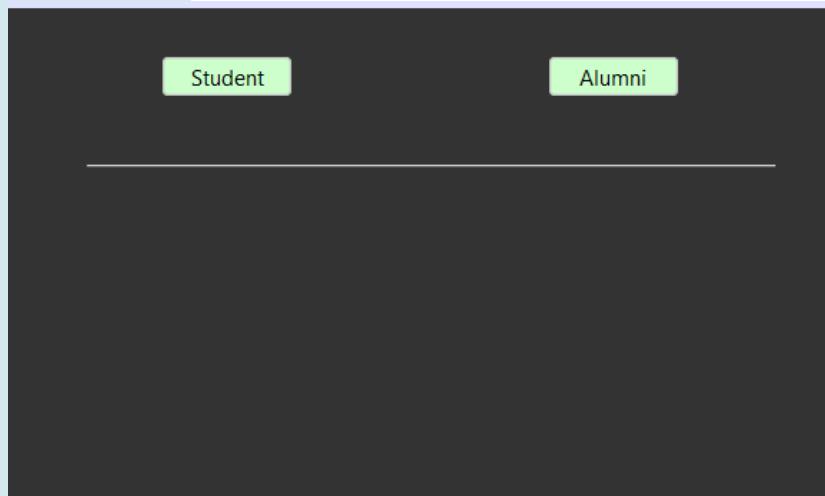
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DASHBOARD



This panel is a login interface for employers or administrators. It features a dark background with light-colored text and input fields. At the top right, the text "Employer Login" is displayed. Below it, the label "Employer ID:" is followed by a long, light-purple rectangular input field. Underneath, the label "Password:" is followed by another long, light-purple rectangular input field. At the bottom right of the panel is a light-purple rectangular button labeled "Confirm".

This panel is used for Employer/Admin login.



The Employer can select to view either Student or Alumni data.

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DASHBOARD

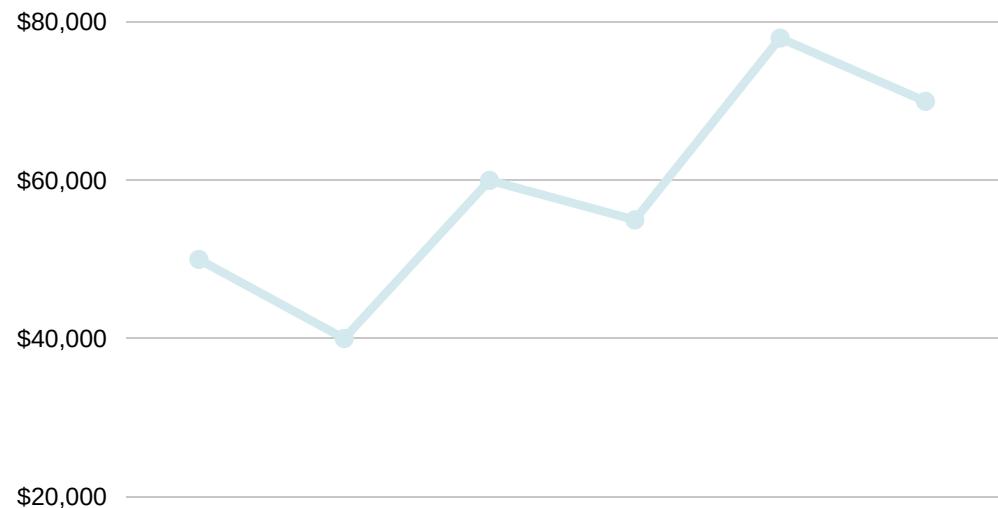
The screenshot shows a dark-themed dashboard titled "Students". At the top, there is a "Back" button. Below it is a table with columns: Student ID, Student Name, Overall Grade, and Employment Status. The body of the table is entirely purple. Below the table, there are input fields for "Student Name" and "Student ID", both containing placeholder text. At the bottom, there is a "Send Interview Request" button followed by a "Send" button.

The Employer can view the ranked student list and schedule an interview with the selected student.

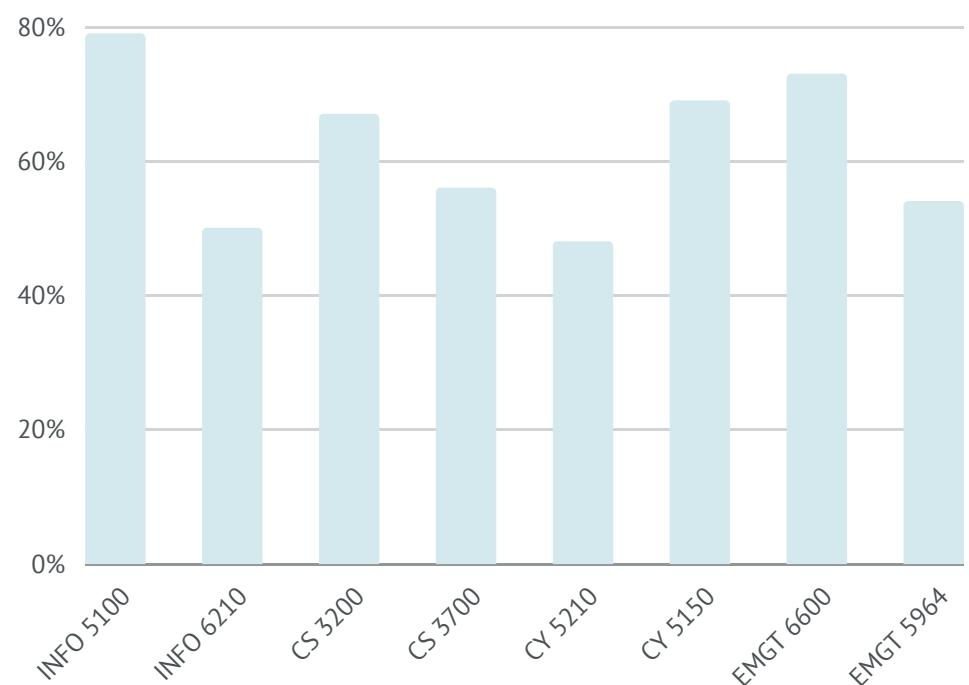
The screenshot shows a dark-themed dashboard titled "Alumni". On the left, there is a sidebar with buttons for "Student", "Admin", "Faculty", "Employer", and "Alumni", where "Alumni" is highlighted. At the top, there is a "Back" button. Below it is a table with columns: Name, ID, Job, Job Position, Job Performance, No. of Promotions, and Salary. The body of the table is entirely white. At the bottom, there is a form titled "Update Alumni Position" with fields for Alumni ID, Alumni Name, Job, Job Position, Job Performance, and No. of Promotions. There are "View" and "Delete" buttons above the form, and "Update" and "Save" buttons at the bottom.

The Employer can view the ranked alumni list and view the full profile of any particular alumnus.

PERFORMANCE GRAPH



COURSE VS AVERAGE SALARY



COURSE VS NO. OF STUDENTS

HOW TO APPLY THIS DIGITAL IDEA TO K-12 IN DEVELOPING COUNTRIES

The course structure for schools in developing countries is usually standard for all students, with less flexibility. Thus, they all end up receiving the same knowledge, which hampers the opportunity for individual flourishing. If we apply a system similar to the university model, for the schools, we would be able to develop a more adaptive course structure, where the students would be able to choose courses based on their interests and their high-performance, does getting an opportunity to reach their true potential. This would help in introducing new courses which are relevant to schools in those countries based on the geography, job requirements, the particular industry that flourishes there, etc.



CONCLUSION

STRATEGY TWEAKS AND NEW INITIATIVES

In the proposed system, we have designed a measurement system using which a university anywhere in the world would be able to improve the quality of education and align itself more with the skills needed for success in the industry. For checking relevance of the courses offered by the University, we rank the courses, taking into consideration the course difficulty and the faculty rating for each course, followed by ranking the students who have taken these courses, on the basis of their performance, which is based on their GPA. This would help recruiters in setting up interviews with students, and the administration would be able to determine the best courses and would be able to update the course catalog accordingly. Also, the proposed plan for classes from K to 12 would reach out to a wider audience as schools would benefit greatly from it.