

University Performance Model:

INFO 5100: APPLICATION ENGINEERING AND MANAGEMENT

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Introduction:

AIM:

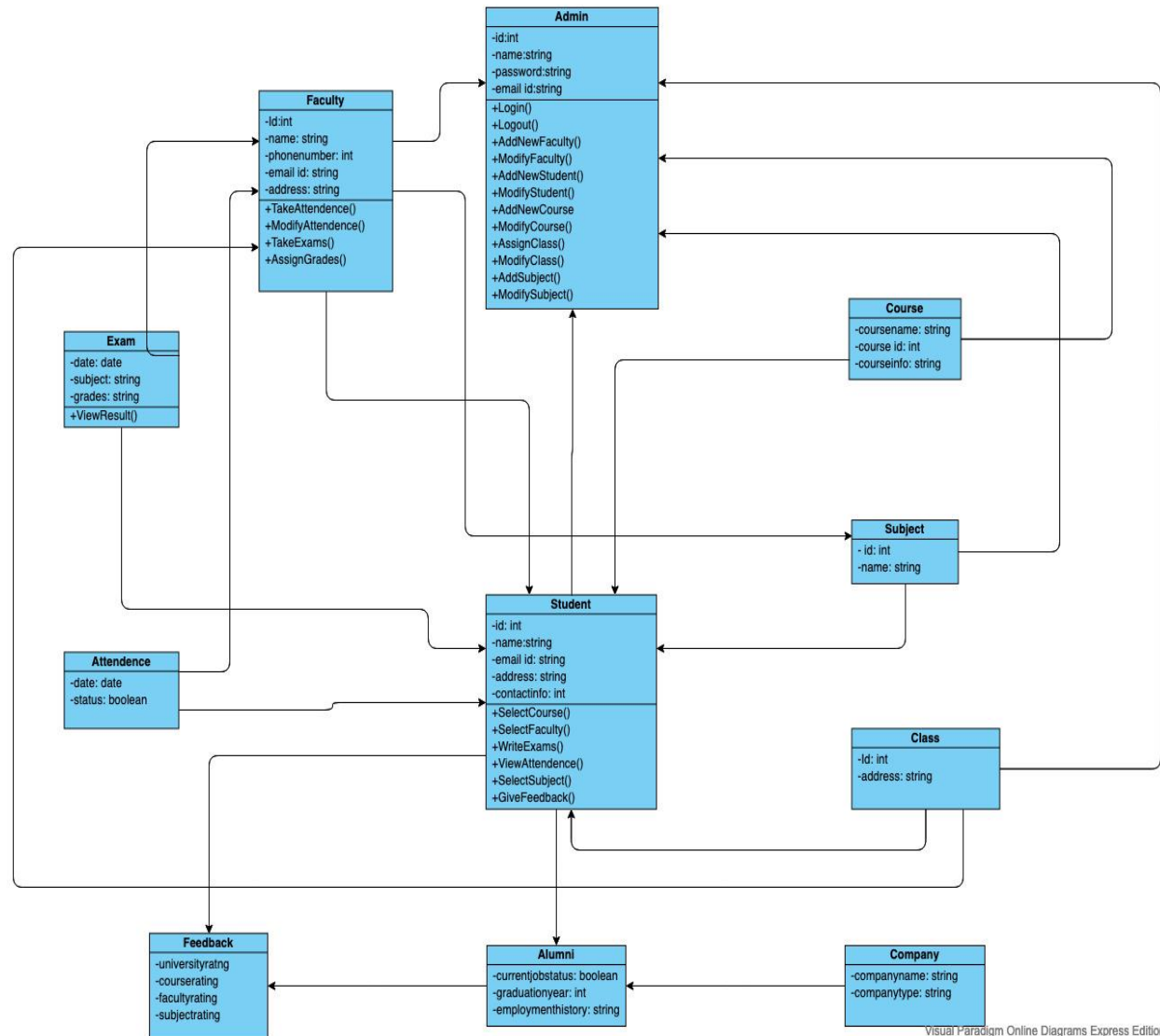
The main aim of this assignment is to create a modal that helps us to develop a performance measurement solution for the university to measure the quality of education.

In the proposed modal a feedback class is created to conduct a survey among the students who have passed out of the university and are the part of the alumni. The responses of those students are recorded and analyzed and, on that basis, faculty are rated accordingly.

The vital aspects of any university are courses provided in the university and the teaching staff, thus it's important to manage both the aspect effectively and efficiently. The ranking of the university and the faculty by the students is in the accordance to the internships, co-op and the job opportunities students get.

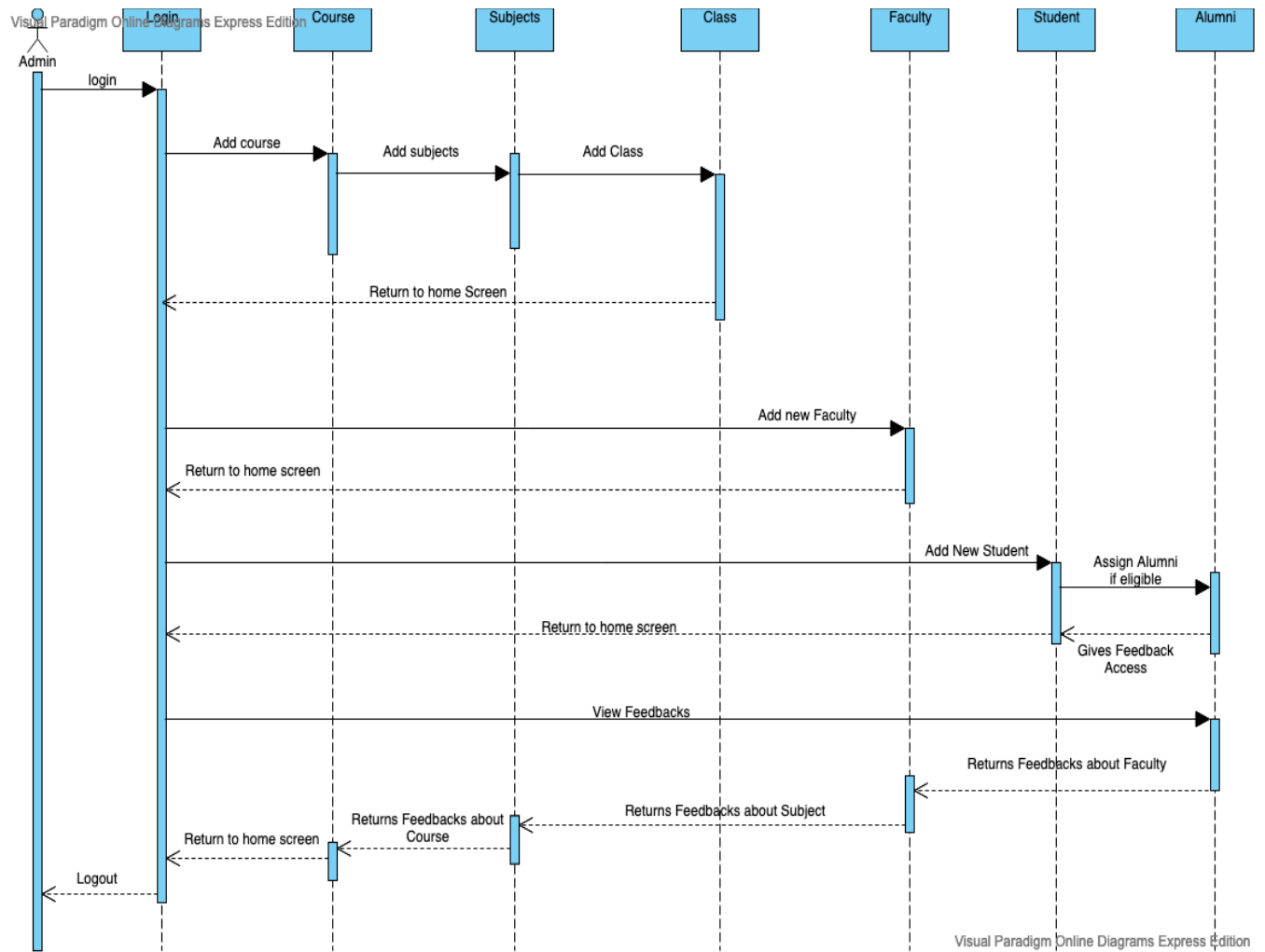
To analyze the performance of the university as a whole, analyzing dashboard is developed which helps the administration of the university to monitor the performance and effectiveness of the course and staff members. Thus, helps them to keep an eye on the quality of education and also make changes in the courses or improve the quality of teaching as and when needed.

University Feedback Object Model



Visual Paradigm Online Diagrams Express Edition

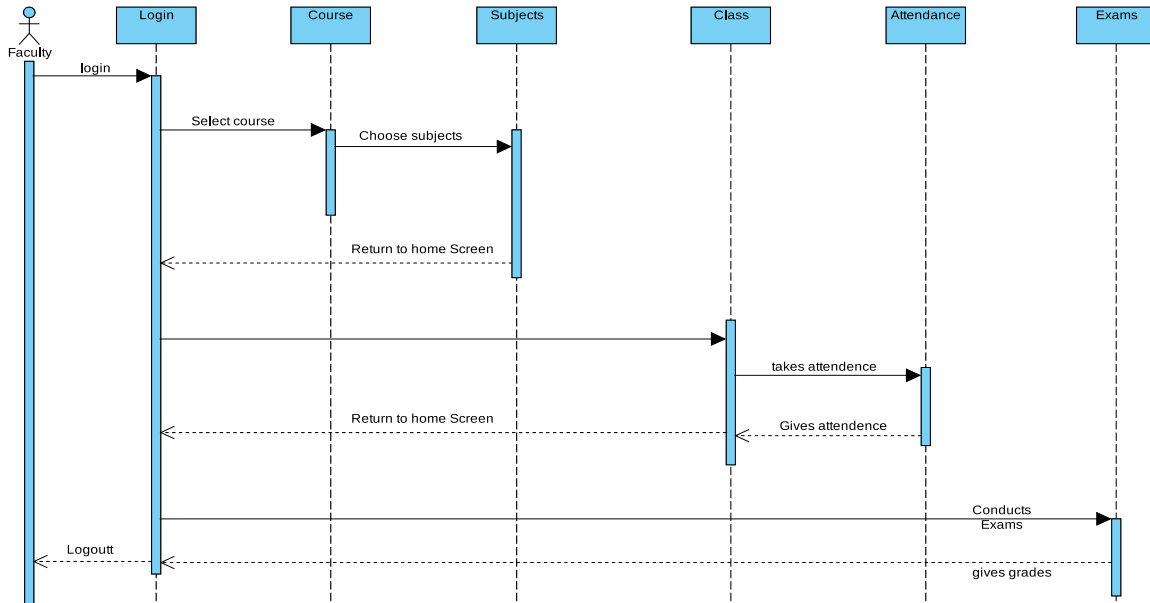
SEQUENCE DIAGRAM: ADMIN DISPLAYS THE FEEDBACKS



The admin sequence diagram explains us how the university can retrieve the ratings of the faculty, subjects and courses. Using this information any user can calculate the rank of the university based on the feedback records. Thus, the feedbacks by the students is plays a vital role in rating the university.

SEQUENCE DIAGRAM: FACULTY'S FLOW AND ITS FUNTIONALITIES

Visual Paradigm Online Diagrams Express Edition

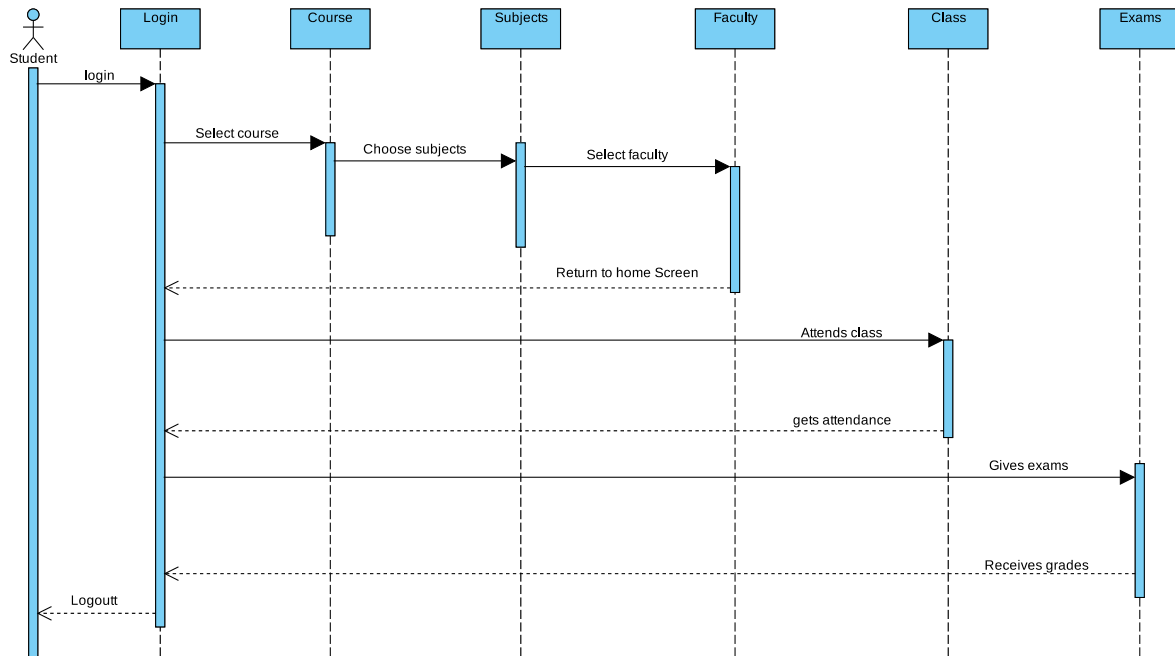


Visual Paradigm Online Diagrams Express Edition

This UML (Sequential Diagram) depicts the flow of the data of the faculty. Here the flow of the faculty is the functionalities that the admin provides to them. Faculty is provided with access to select the course he/she wants to proceed with. After that he will have the options to choose from the subjects that course offers in that university. He gets multiple options to select subjects. He will conduct classes and exams of students and give them attendance and grades.

SEQUENCE DIAGRAM: STUDENT'S FLOW AND ITS FUNTIONALITIES

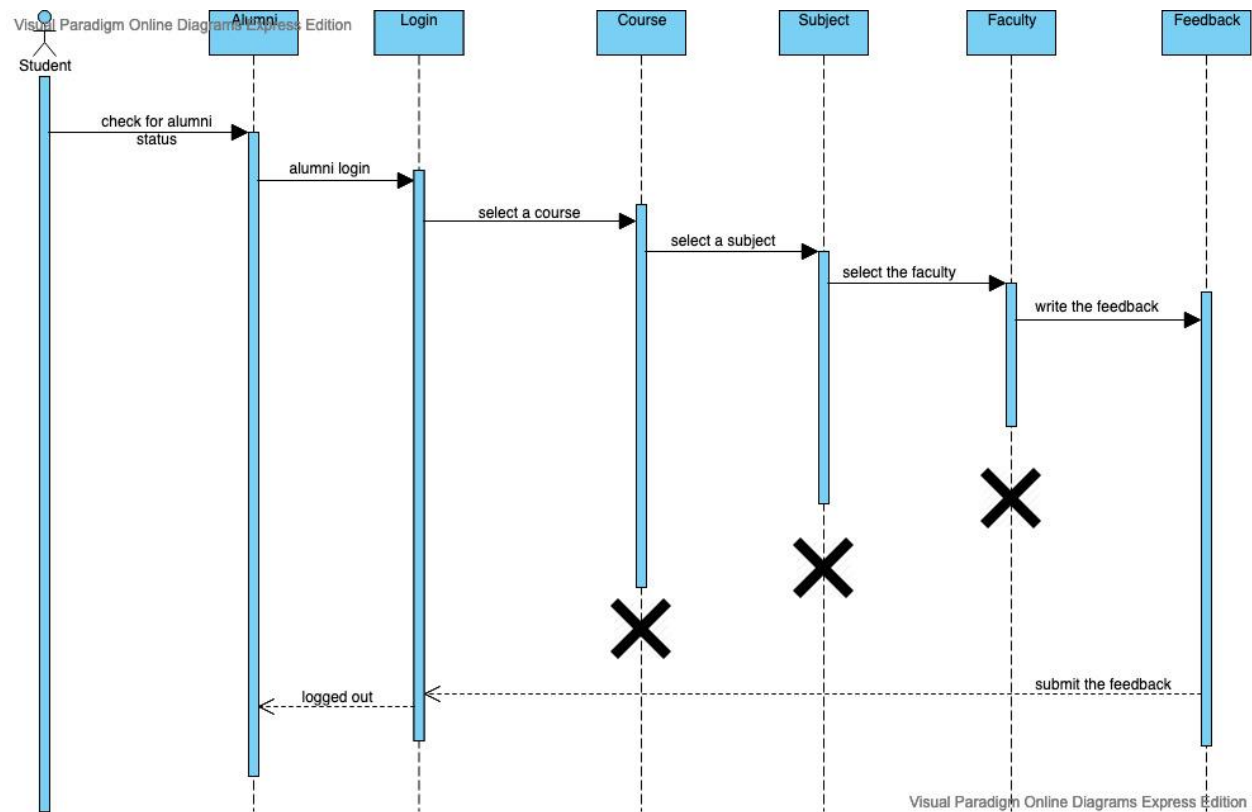
Visual Paradigm Online Diagrams Express Edition



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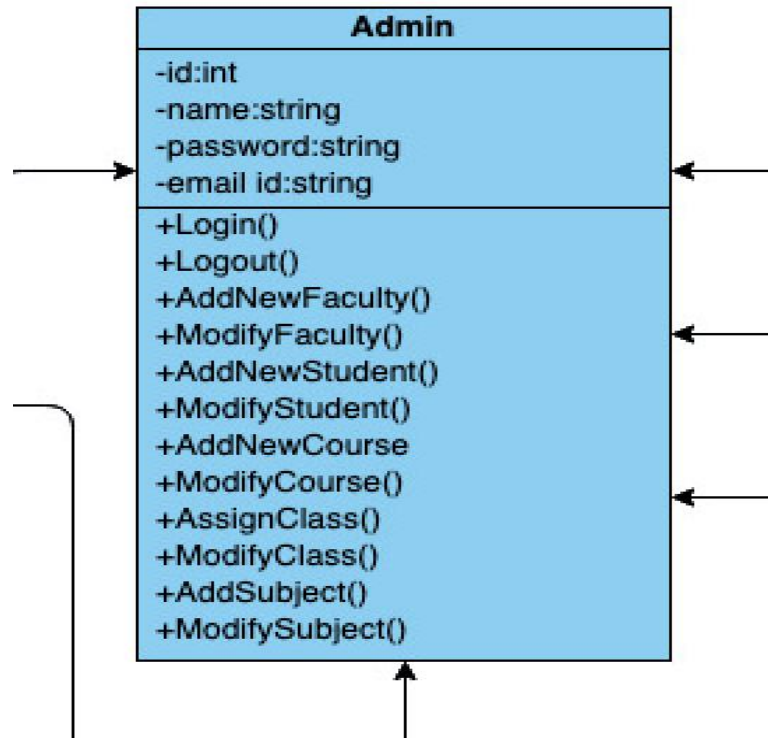
This UML (Sequential Diagram) depicts the flow of the data of the student. Here the flow of the student is the functionalities that the admin provides to them. Student is provided with access to select the course he/she wants to proceed with. After that he will have the options to choose from the subjects that course offers in that university. He gets multiple options to select subjects. He will attend classes and exams of subjects and gets attendance and grades.

SEQUENCE DIAGRAM: ALUMNI STUDENTS GIVES FEEDBACKS TO COURSE, SUBJECTS AND FACULTY

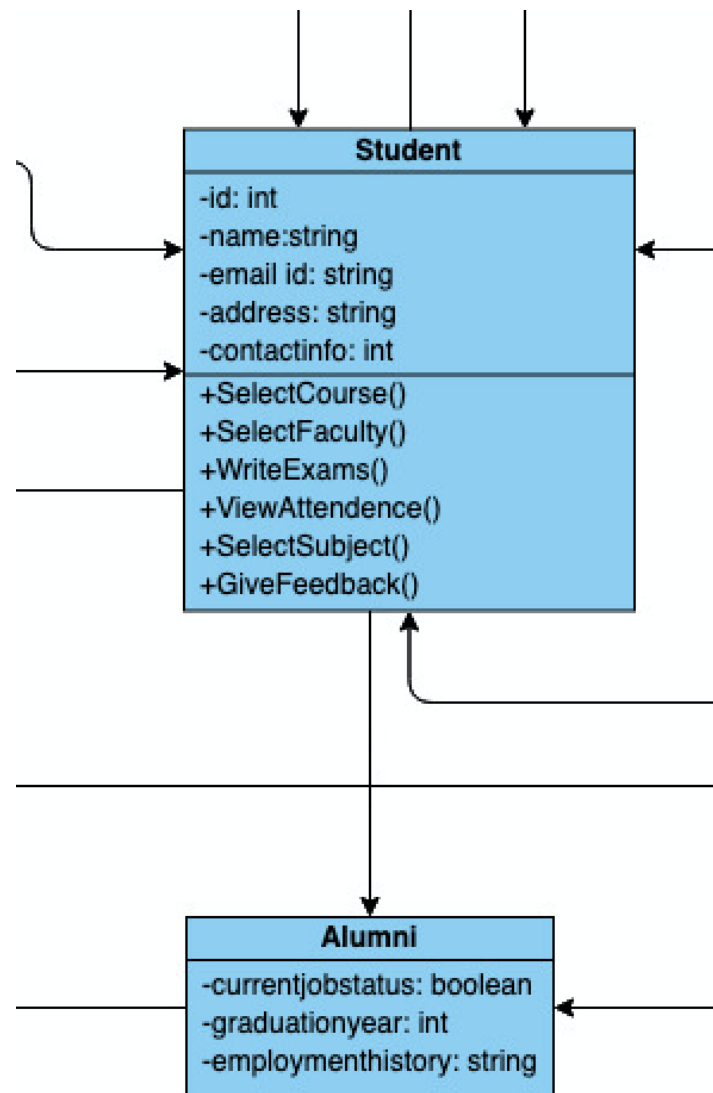


This UML (Sequential Diagram) depicts the flow of the data of the Alumni. Here the flow of the alumni is the functionalities that the admin provides to them. Alumni is provided with access to give feedback by the Admin. After that he will give the feedback of the course that he attended at the university. Under that he will provide feedback of all the subjects he studied. For each subject faculty feedbacks are also recorded. This Feedbacks are collected by the admin and later on been analyzed according to the subjects and faculties.

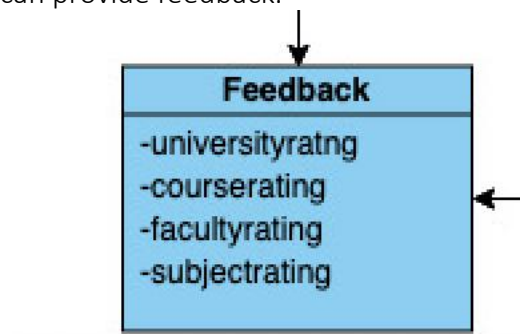
METHOD EXPLANATION



Admin has all controls over the Faculty, Students, Courses, Subjects and Classes. Admin can perform actions like adding, modifying and erasing the data of Faculty, Students, Courses, Subjects and Classes.



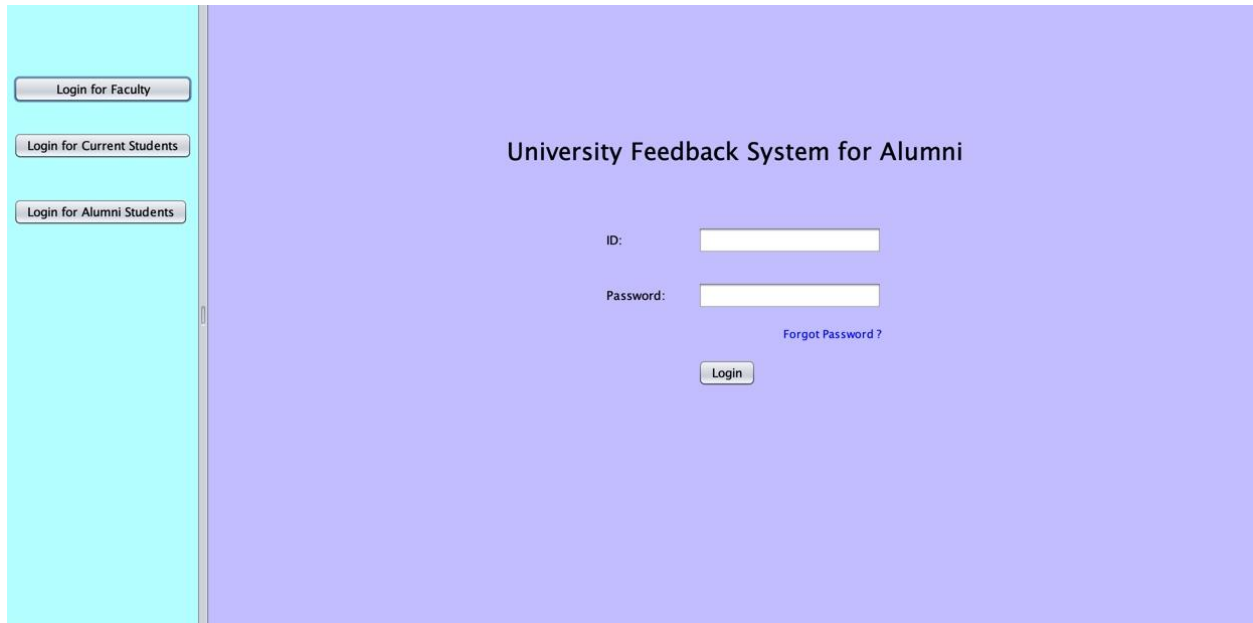
Here the Alumni status is given by admin once the alumni criteria is met. Once Alumni get access to feedback system he/she can provide feedback.



After that he will give the feedback of the course that he attended at the university. Under that he will provide feedback of all the subjects he studied. For each subject faculty feedbacks are also recorded.

DASHBOARD

LANDING PANEL:



The landing panel features a light blue sidebar on the left with three login buttons: "Login for Faculty", "Login for Current Students", and "Login for Alumni Students". The main area has a light purple background and contains the title "University Feedback System for Alumni". Below the title is a login form with fields for "ID:" and "Password:", a "Forgot Password?" link, and a "Login" button.

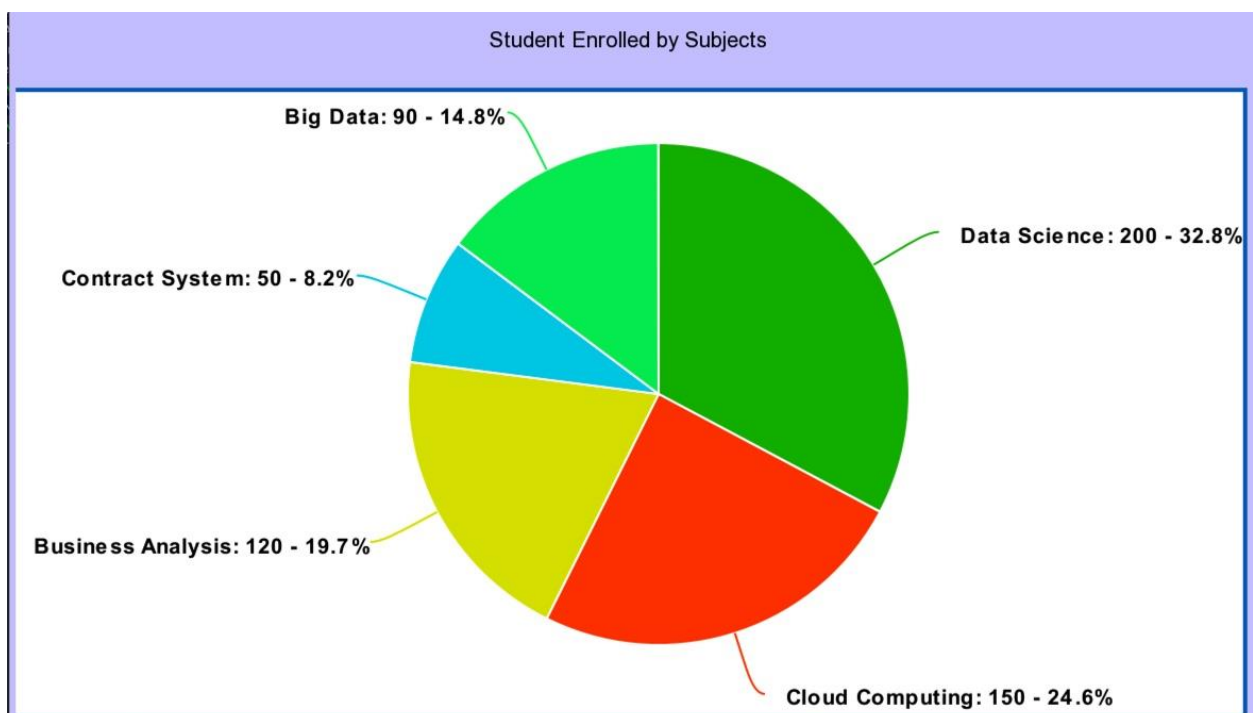
University Feedback System for Alumni

ID:

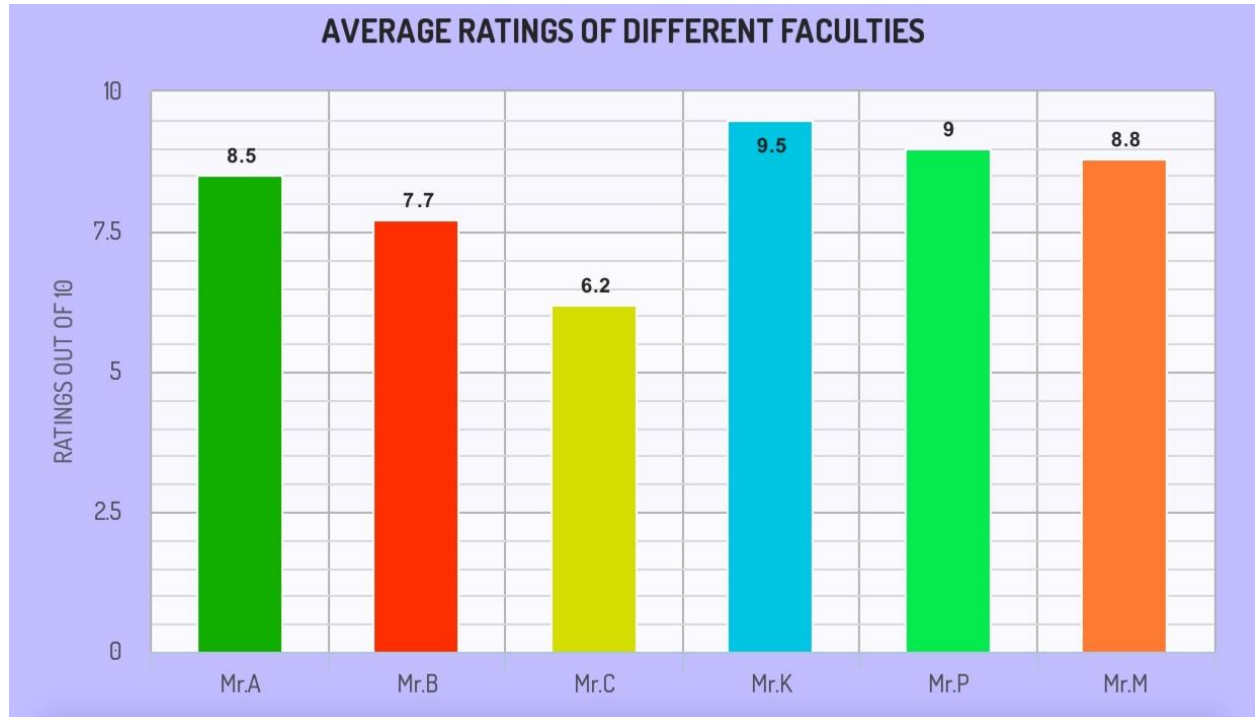
Password:

[Forgot Password ?](#)

PIE CHART:



GRAPHS:



CONCLUSION:

In the proposed solution we have designed a performance measurement evaluation system that would enable universities to measure the quality of education they deliver to their students. The solution considers the feedback of the alumni on the relevant courses and provides a rank to the courses that have been beneficial to them in terms of jobs, promotions and salary hikes. The system also measures the rank of a faculty based on a survey that is taken by the current students. These rankings would, in turn, help an individual to figure out the ranking of any department and college, which will act as a guide for future students trying to select a college, department or course. Furthermore, the scope of this project can be expanded by considering the feedback of a recruiter which would help the administrator to rank a particular university based on the performance of students in the company.