Assignment 3: University Ranking Model

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Problem Statement

Build a system to propose a course ranking matrix solution that allows universities to measure the quality of education they deliver and the way it facilitates students further in achieving their future endeavors. This system will create a solution based on how the university contributed to the professional growth of their graduate students over 5 years. The solution should enable the university to track jobs and promotion of a student along with an evaluation of courses relevant to their growth.

Proposed Solution

The university needs continuous improvement in its subjects and curricula. Not only to keep them updated according to current trends in the market but also for students to get better opportunities after graduation. For this to happen, there is a need for a system in which the university could decide when and what to revitalize its courses and the faculties that teach those subjects.

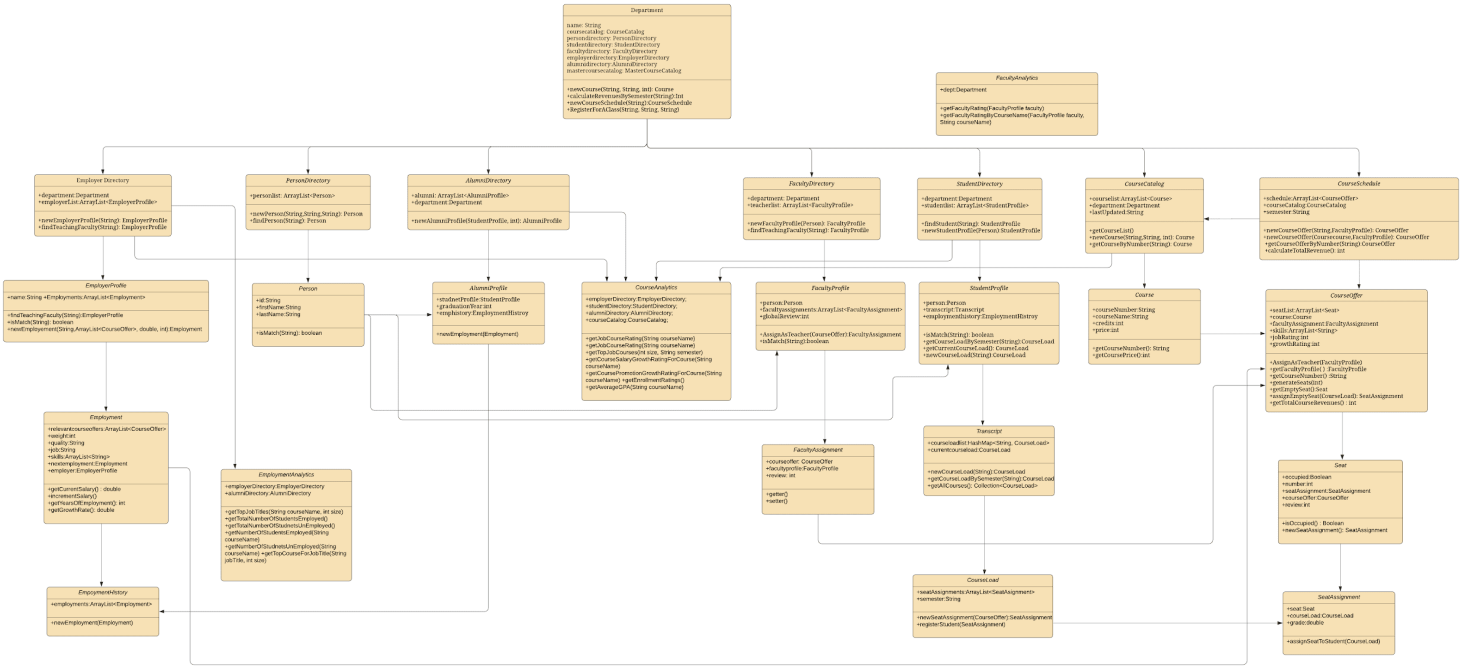
Faculty and Course Ratings and the alignment of the course with industry trends:
What courses helped the students to secure a job will give us the relation between the job types and the courses. Many of the students do online certification programs outside their curriculum. We'll take feedback if students have done such certifications which helped them in their job search. According to this feedback, we can improve the courses offered and, in this way, courses will align with the current industry trends.
To get a course and faculty rating there are two ways: first, if 10 students get a job and get the most out of their learning course, then the rating of that course and the faculty teaching that course will be 10 and secondly, we can take feedback from alumni working in well-known companies and directly assign ratings.

To Track Professional Growth such as Jobs and promotions:
To track the professional growth as well as job changes of the graduate students over 5 years, the proper time to time feedback needs to be taken from the alumni. The alumni will fill out the feedback form every year to convey the information about their promotions or any significant growth in their careers.

Ranking System for an Educational Institution:
The course description, the topics covered, the skills the student will develop, the industry relevance of assignments and projects, and the duration of the course offered are also significant from the viewpoint when the student will evaluate the ranking. University's industrial connection with the businesses and job prospects based on the location are vital signs that contribute from the job perspective for calculating the ranking of the university. Thereafter, there are some other parameters such as weather, diversity, college societies, and festivals that can be considered by students while choosing the university.

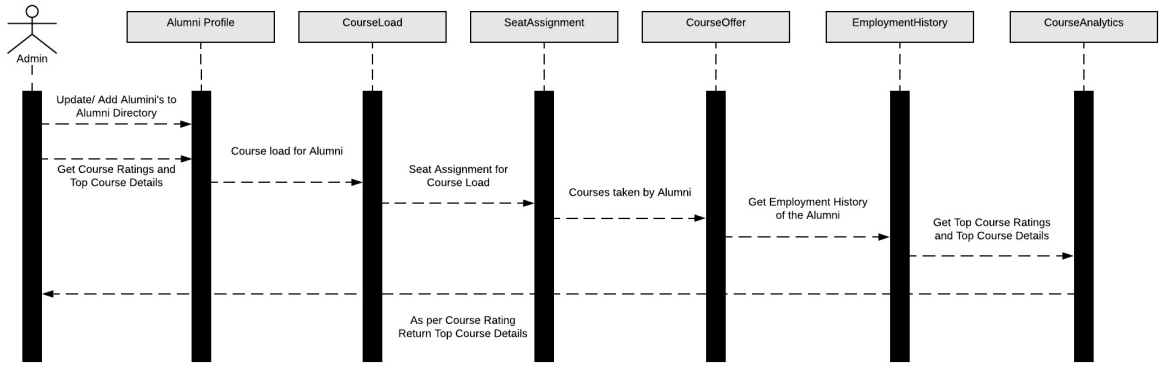
University as an intermediary (broker) between students and employers:
University acts as a mediator between students and employers by providing relevant courses required for a particular job. Here the university can provide a common platform in the form of a portal where every student can look for the employers for which they wish to work for according to their interests or the courses they have opted in their previous semesters. Also, employers can look for students to hire according to the profile and roles they need. In this way, both students and employers will be benefited from this common platform created by the university.

Object Model

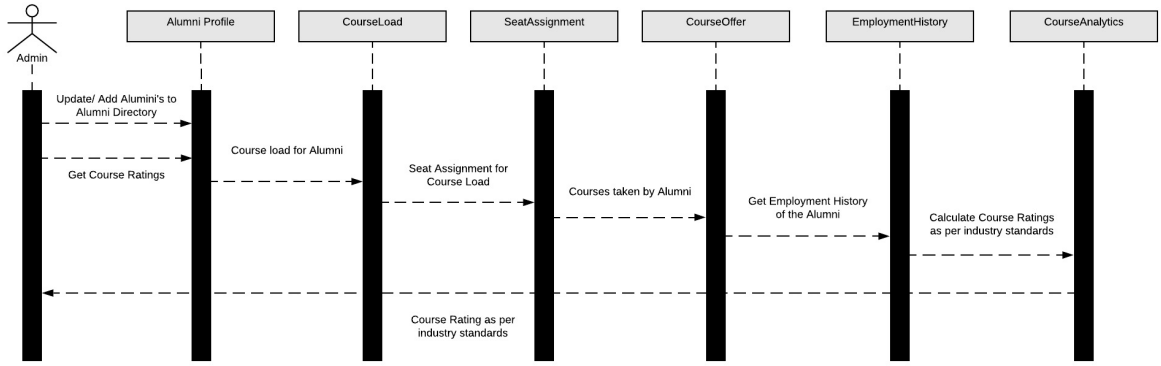


Sequence Diagrams

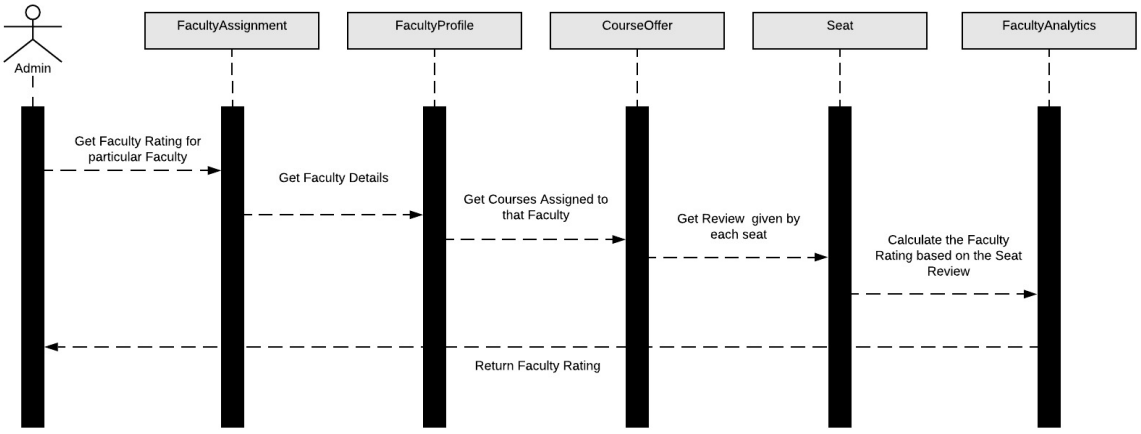
Top Course For Employment



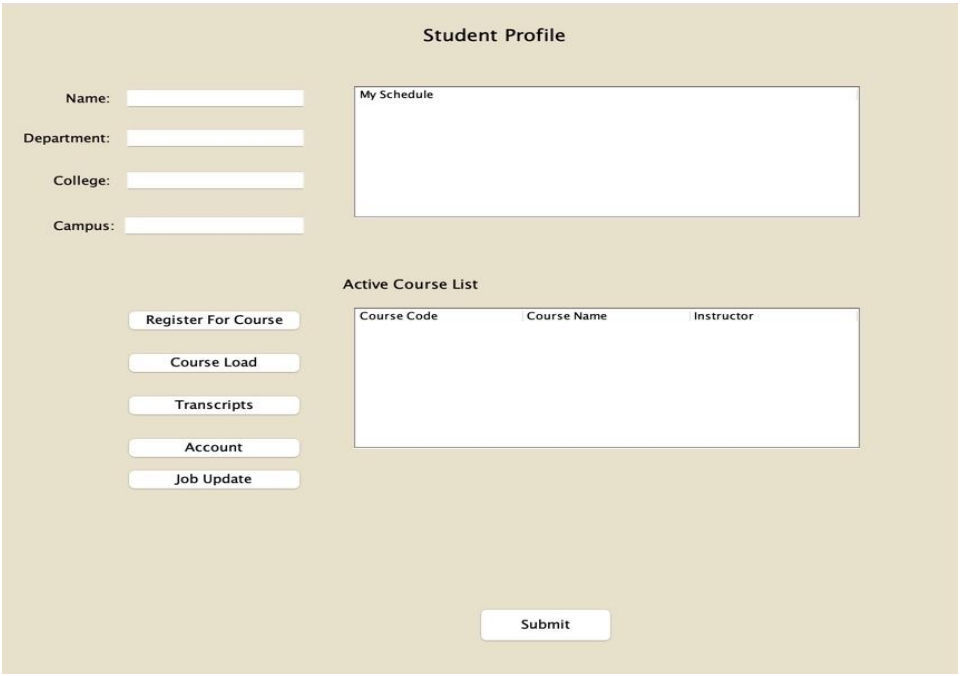
Course Rating as per
Industry Standards

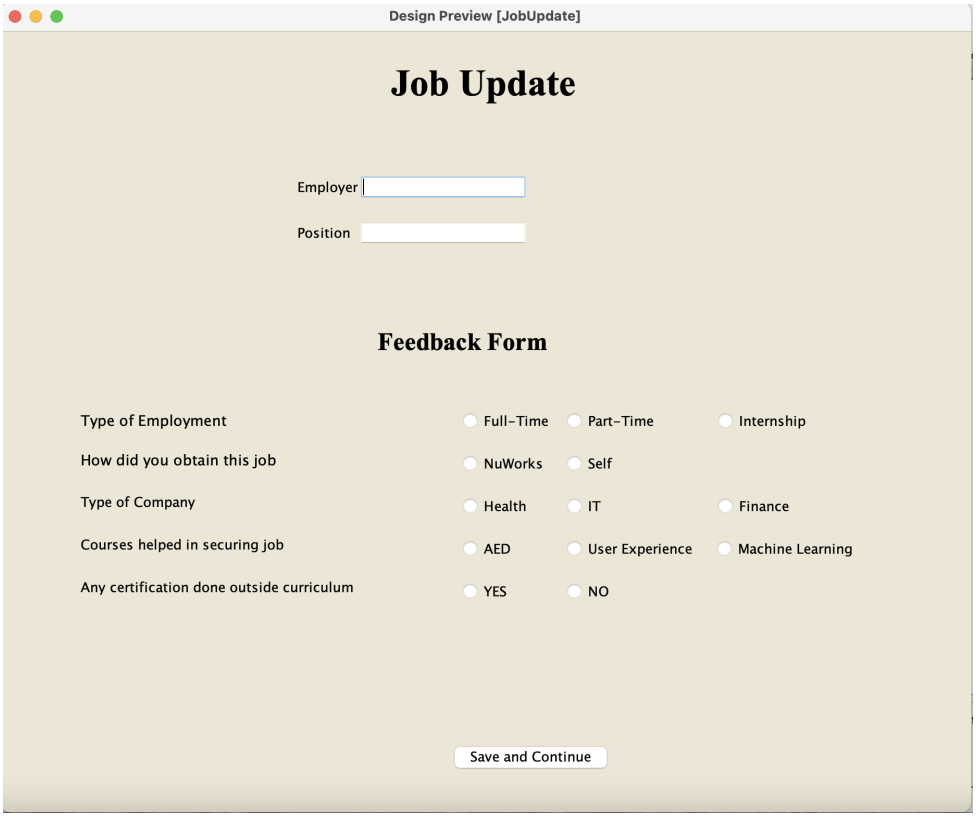


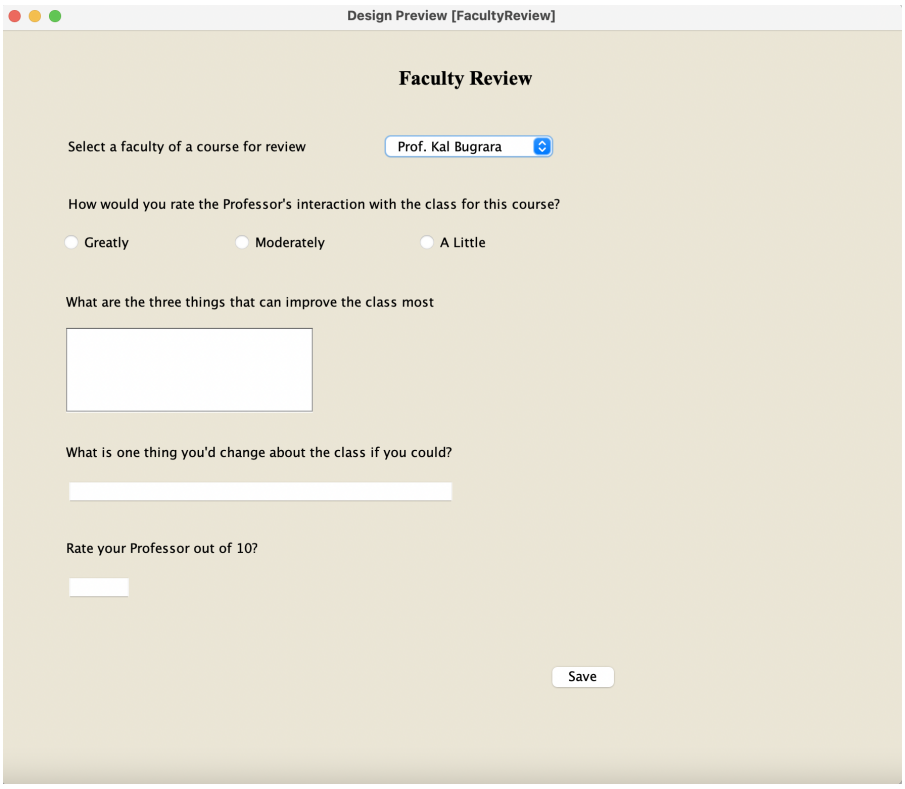
Faculty Rating

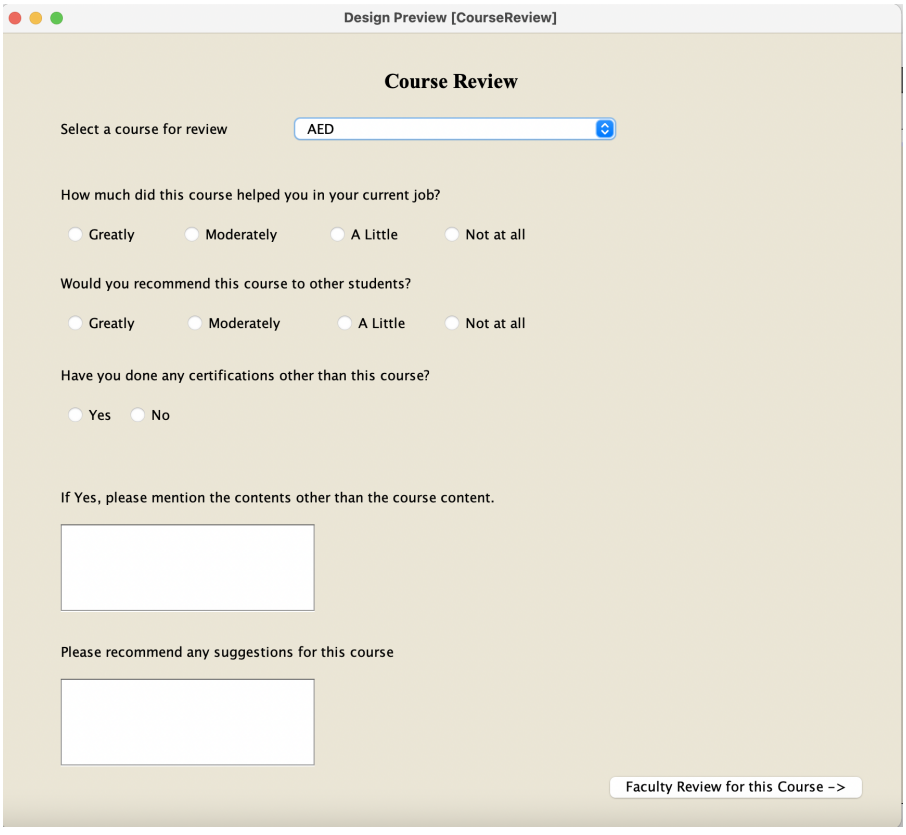


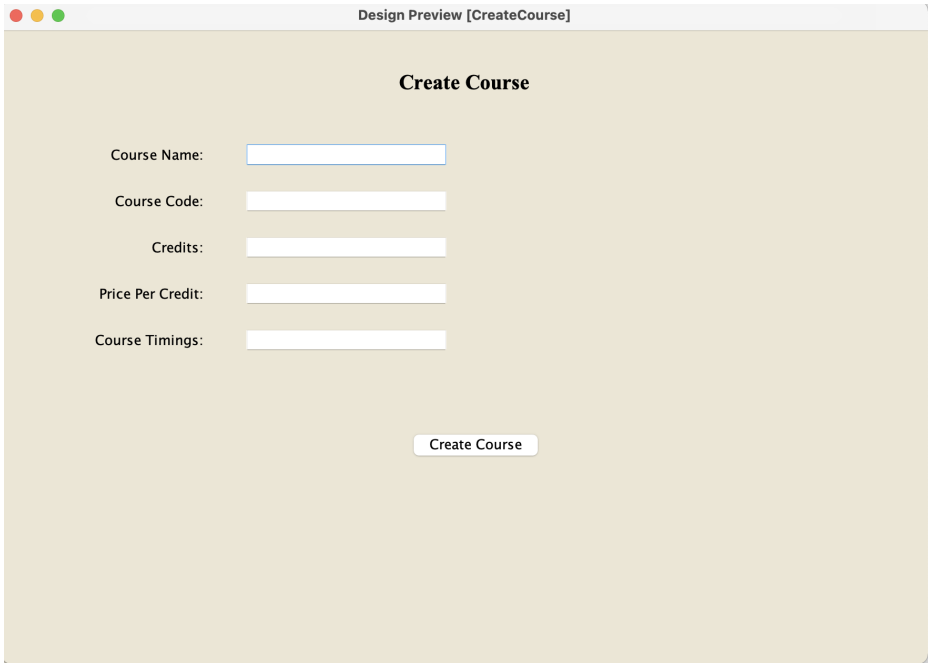
User Interface

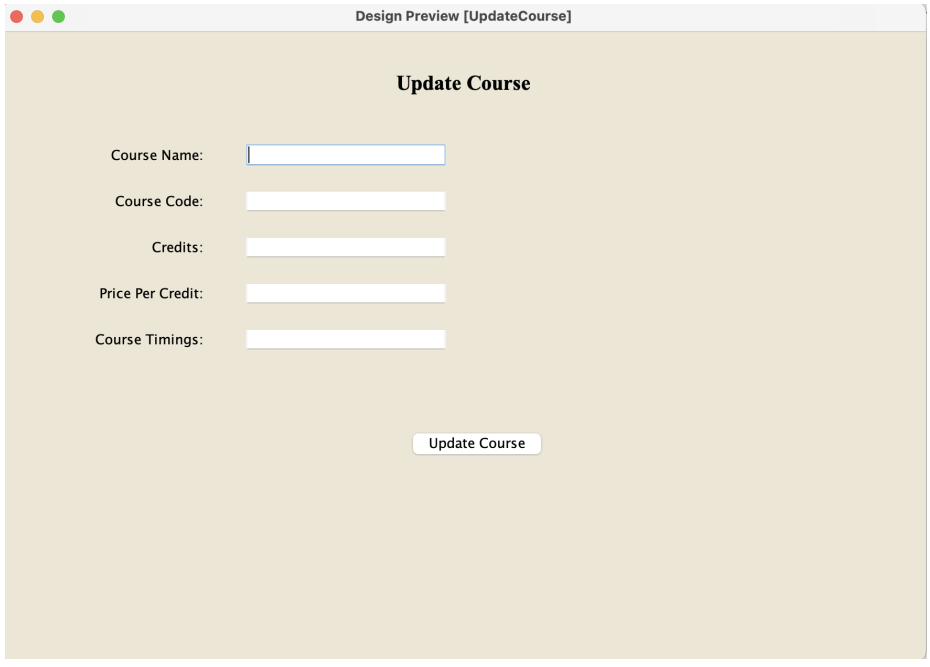


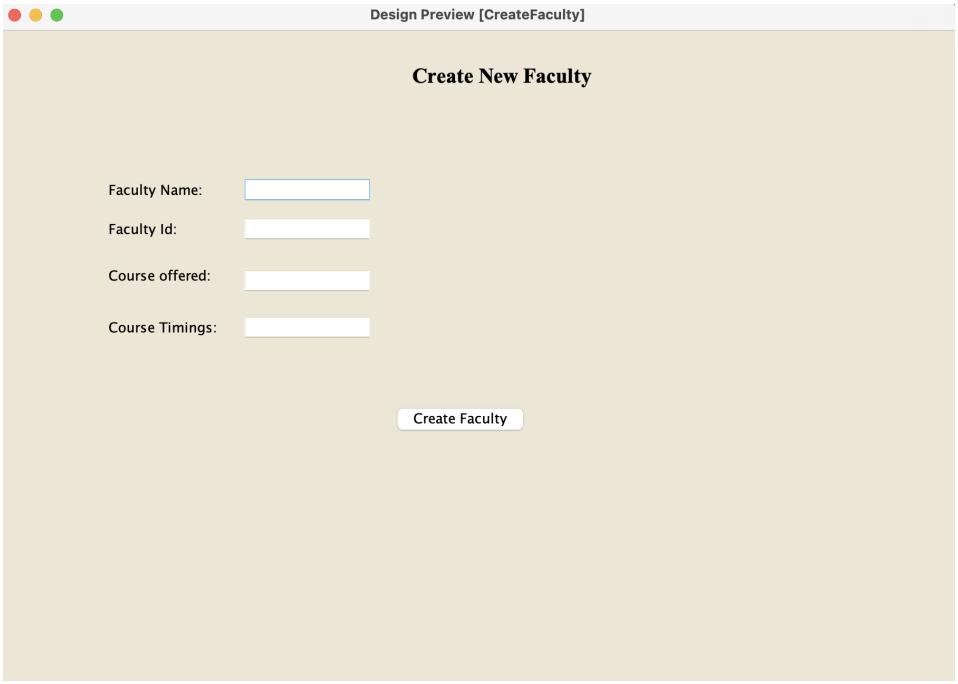


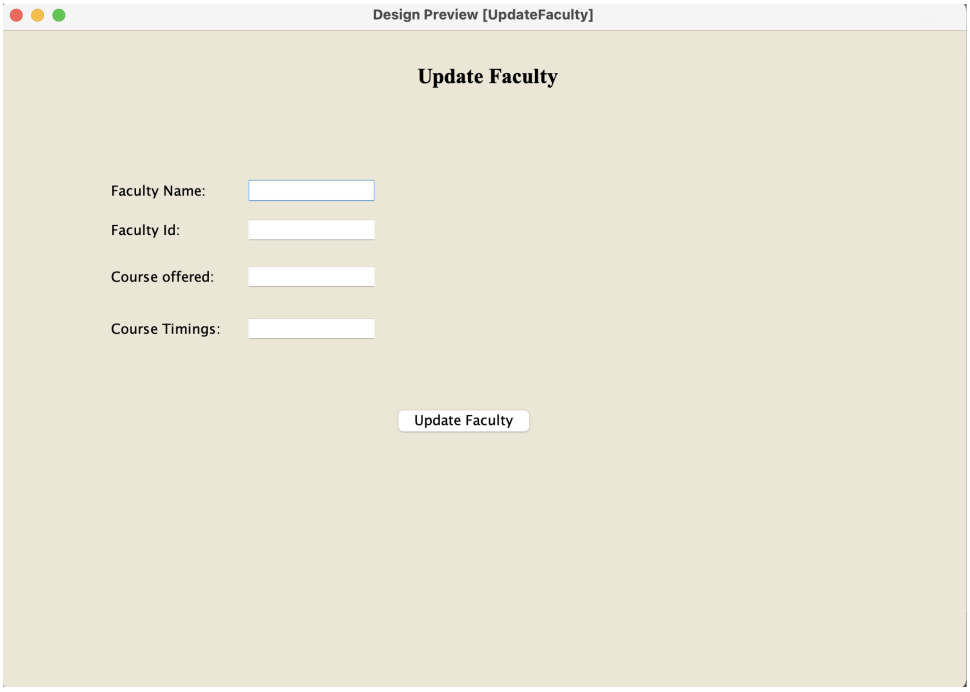

Design Preview [FacultyReview]
Faculty Review
Select a faculty of a course for review
Prof. Kal Bugrara
How would you rate the Professor's interaction with the class for this course?
Greatly
Moderately
A Little
What are the three things that can improve the class most
What is one thing you'd change about the class if you could?
Rate your Professor out of 10?
Save


Design Preview [CourseReview]
Course Review
Select a course for review
AED
How much did this course helped you in your current job?
Greatly
Moderately
A Little
Not at all
Would you recommend this course to other students?
Greatly
Moderately
A Little
Not at all
Have you done any certifications other than this course?
Yes
No
If Yes, please mention the contents other than the course content.
Please recommend any suggestions for this course
Faculty Review for this Course ->

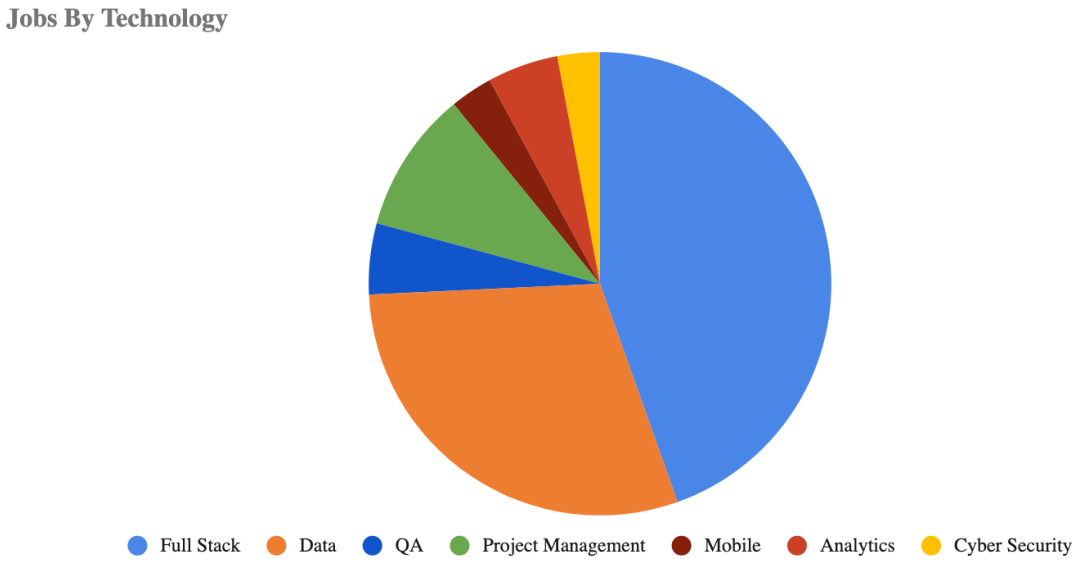

Design Preview [CreateCourse]
Create Course
Course Name:
Course Code:
Credits:
Price Per Credit:
Course Timings:
Create Course

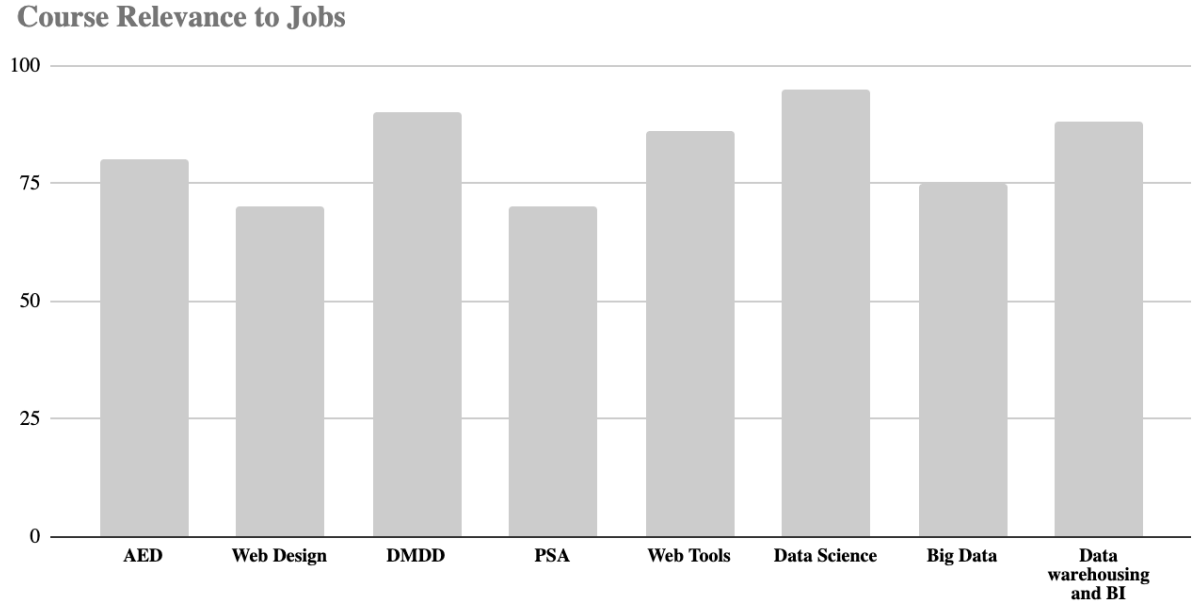

Design Preview [UpdateCourse]
Update Course
Course Name:
Course Code:
Credits:
Price Per Credit:
Course Timings:
Update Course


Design Preview [CreateFaculty]
Create New Faculty
Faculty Name:
Faculty Id:
Course offered:
Course Timings:
Create Faculty

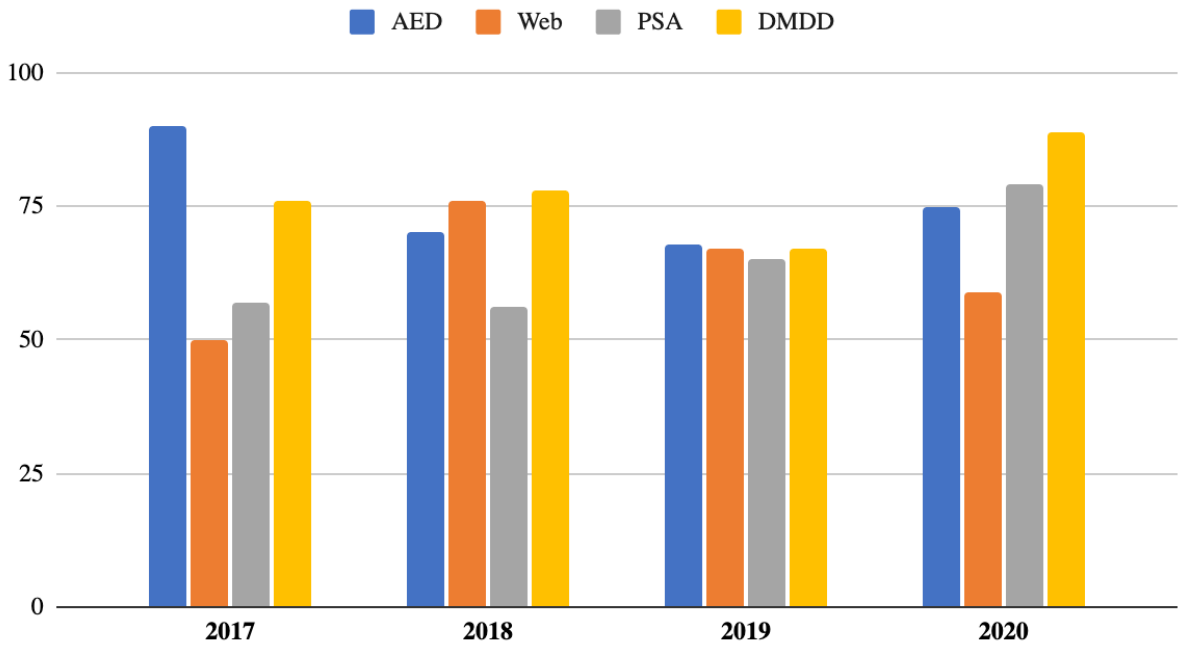

Design Preview [UpdateFaculty]
Update Faculty
Faculty Name:
Faculty Id:
Course offered:
Course Timings:
Update Faculty

UNIVERSITY DASHBOARD





Year Wise Employment for Courses



Popularity of the Course