# UNIVERSITY RANKING MODEL

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### 1. Introduction

It is very important for universities to be aware of the quality of education provided by them. A performance measurement solution is created using software engineering techniques that enables universities to measure the quality of the education they deliver to their students. The feedback from the alumni and students are taken into account to determine the factors like faculty and courses in the educational system that contributed to their growth over a 5-year span.

# 2. Proposed Solution

Our important focus is to build a performance measurement solution to measure the quality of education they deliver to the students, so the future students will have a better idea about selecting courses by analyzing their interest and relevant university ranking.

The design will involve a set of parameters for evaluating the quality of education university such as graduation rate, relevant courses offered, faculty, alumni feedback, etc. and based on these factors the universities will be ranked.

The dashboard will include admin, student, alumni and ranking system modules through which the admin team can evaluate the performance that will be helpful for upcoming students.

# 3. Model Assumptions:

- The factors which affect the rating of the course have been emphasized upon directly to the ranking of the university. Any undeclared condition and/or parameters would be a limitation to the scope of the university course's ranking model and its evaluation.
- The amalgamation of roles and responsibilities of namely Students, Faculty and employer outputs the factors affecting the ranking of the university model and its course evaluation.

### 4. ENTITY:

- Course: It holds all the courses offered in the university.
- Course Feedback: It takes into account all the feedback from the particular courses.
- Course Catalog: It is a catalog of all the Courses that would be provided
- Course Load: Describes the course load per semester
- Course Offer: All the courses offered in the respective semesters
- Course Schedule: Takes into account the Course schedule, semester.
- **Seat :** How many seats are occupied in a course, semester, seats Assigned for each Course is linked to Course Offer
- Seat Assignment: Assigns the seats and grades per semester and is linked to Course Load
- Calendar: Schedules the courses per semester be it fall, spring, summer.
- **Department :** This will have department ID, courses in department, faculty list, average GPA, total students enrolled, course schedules of every department.
- Employer Directory: Holds all Employer Records
- Employer Profile: Gives a detailed insight into the name, employment type of each employer.
- **Alumni**: Each Alumni record has student ID, name, GPA, department, future career path, organization name(company they are placed in), role, year of passing, three courses and three faculties that they considered most helpful in strengthening their career and their short term goals.
- Person: Each Person has an ID, name attributed to it
- **Person Directory**: Holds all Person Records
- **Student Account :** Holds all Student information.
- Student Directory: Holds the department information, and student list.
- **Student Profile**: It has attributes related to the Student name, employment history, Student Id, and transcripts.
- **Transcript :** This will include the Student ID, course ID, GPA obtained of every student.
- **Employment :** Talks about the relevant course offers, quality, job, weightage and the next Employment that would be found in the records.
- Employment History: Talks about the employment history.
- Faculty Assignments: Talks about all the Faculty profile related information

- **Faculty Directory:** Faculty would keep an update on all the students' Profiles, there would be a list of Teachers in this and every department would be assigned respectively.
- Faculty Profile: Holds information of all the persons, faculty assignments, name, id, and courses allocated to them.

### **UML DIAGRAM**

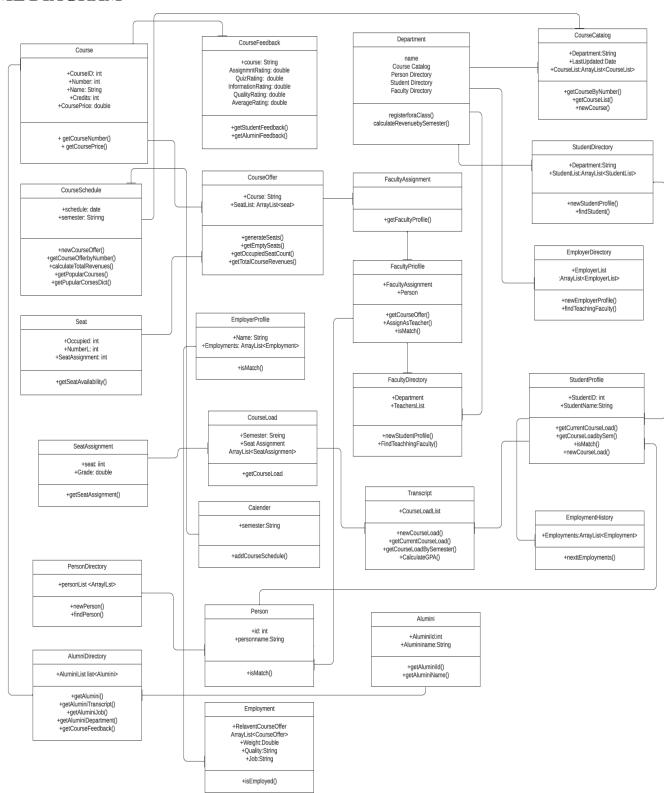


Figure1: UML

# **OBJECT MODEL DIAGRAM**

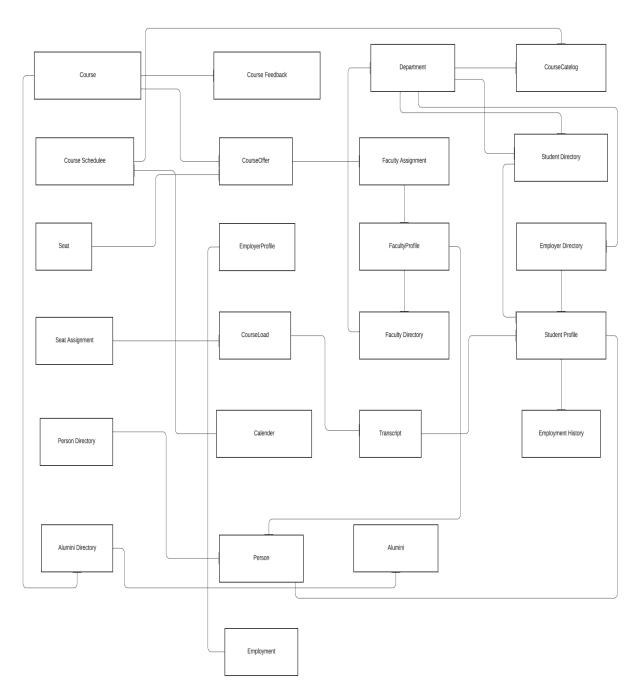


Figure 2: Object Model Diagram

# SEQUENCE DIAGRAM

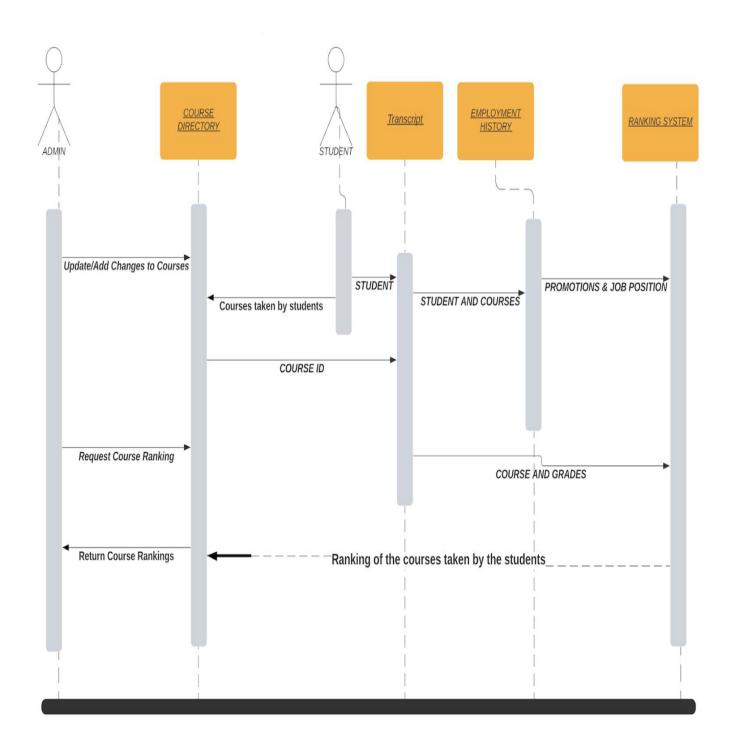
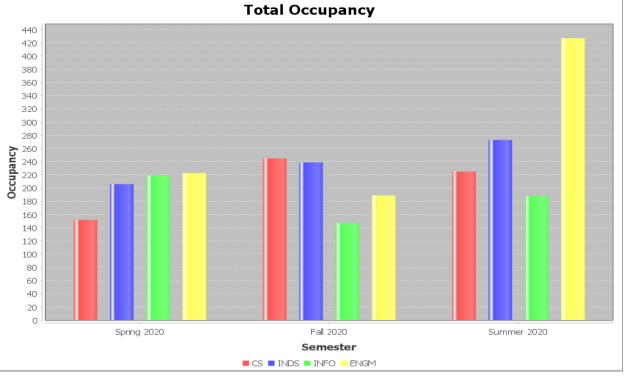
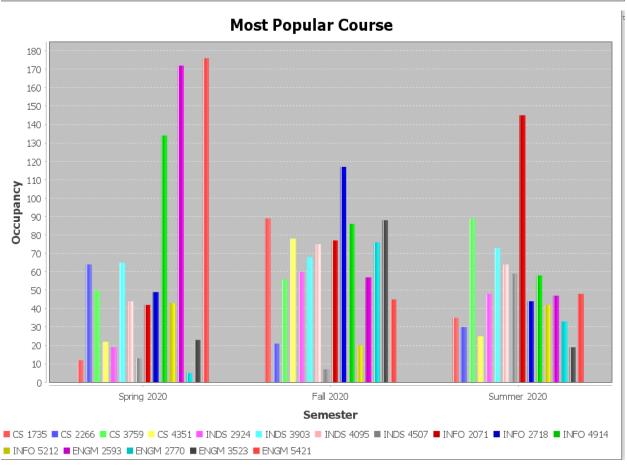
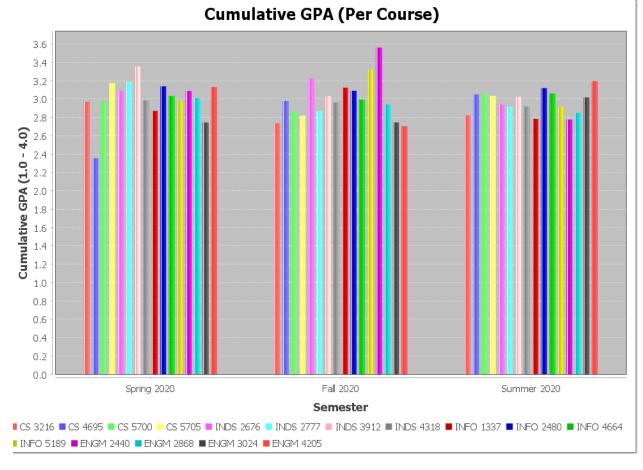


Figure3: Sequence Diagram

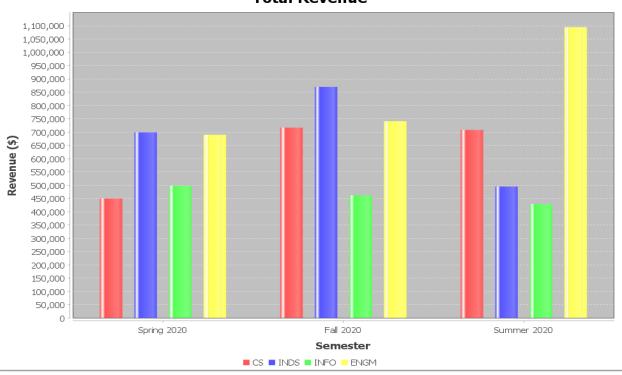
DASHBOARDS







### **Total Revenue**



# **USER INTERFACES:**

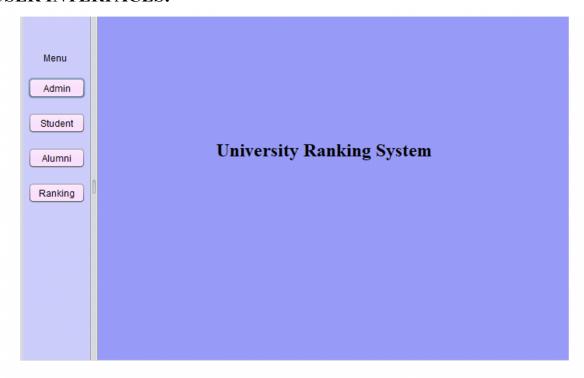


Figure 4: Dashboard for Main Menu

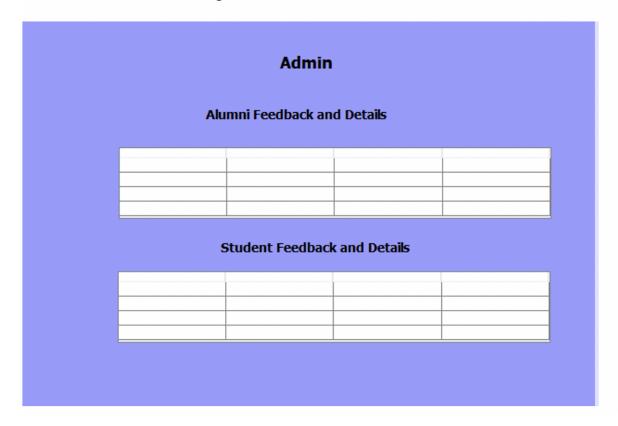


Figure 5 : Admin UI

Menu	Alumni Portal		
Admin	Enter Student ID:		
Student	View Alumni Profile View Student Profile		
Alumni			
Faculty			
Ranking	Display All Alumni Profiles		
	Fetch College Rankings		

Figure 6: Alumni Page

Menu	View Alumni Profile  Welcome Back ****Alumni name****!			
	Student ID:		Department:	
	Name:		Job Role:	
Admin	Overall GPA:		Future Career Goal:	
Student	Year of Passing:		Alumni Create Date:	
Alumni				Company Placed
Ranking		Career Path: Research Work		
	Three Courses that helped y	you Three Faculty(please enter Faculty ID)		Higher Education
	to strengthen your career:	that helped you	strengthen your career	
		SAVE	UPDATE	

Figure 7: Alumni Profile

	Student Portal		
Admin Student Alumni Ranking	Student Portal  Student ID  Student First Name  Student Last Details  Student GPA  Department  Courses that will help you attain your career  Student Course - 1  Student Course - 2  Student Course - 3  Student Course - 4		
	Student Course 1 - Feedback Student Course 2 - Feedback	Good ▼ Excellent ▼	
	Student Course 3 - Feedback	Bad V	
	Student Course 4 - Feedback	Good ▼	
	Submit		

Figure 8: Student Profile