

## UNIVERSITY MODEL ASSIGNMENT

### TEAM:

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### INTRODUCTION:

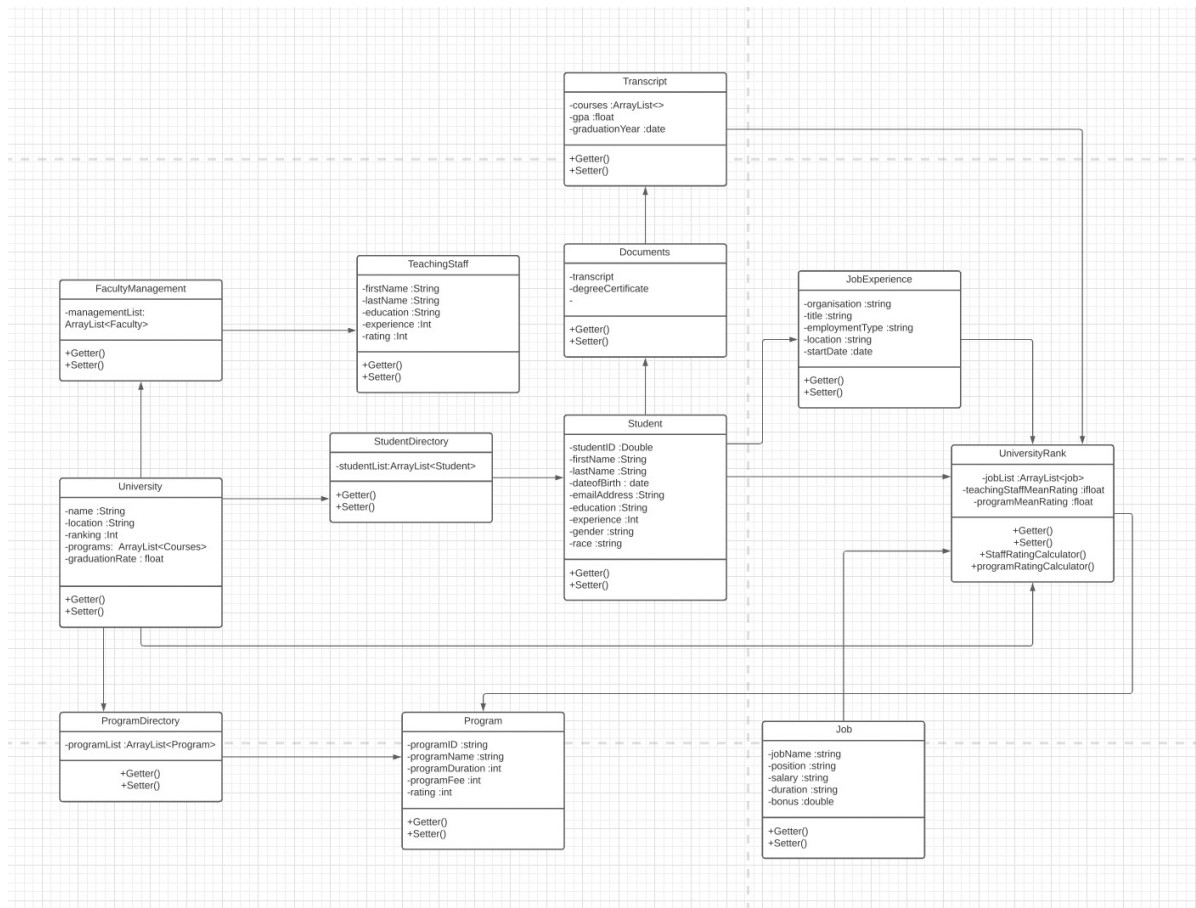
The objective of this assignment is to instil in you the techniques for turning an object model into a machine for information gathering and data aggregation. We want to use software engineering techniques to improve the quality of education anywhere and hold people accountable for improving the quality of life through education, learning to learn, and feedback.

### OBJECTIVE:

The objective of this project is to define a ranking system for students to decide where they want to go for their studies since the current system is biased toward research.

### UML:

### UML DIAGRAM FOR UNIVERSITY MODEL



The various classes used In the model are as follows:

#### ❖ FacultyManagement

managementList: ArrayList<Faculty>

#### ❖ University

name: String

location: String

ranking: Int

programs: ArrayList<Courses>

graduationRate: float

#### ❖ Program

programID: string

programName: string

programTenure: int

programFee: int

#### ❖ TeachingStaff

firstName: String

lastName: String

education: String

✚ experience: Int  
✚ rating: int

❖ **StudentDirectory**

✚ studentList: ArrayList<Student>

❖ **Documents**

✚ Transcript  
✚ degreeCertificate

❖ **Student**

✚ studentID: Double  
✚ firstName: String  
✚ lastName: String  
✚ dateofBirth: date  
✚ emailAddress: String  
✚ education: String  
✚ experience: Int

❖ **JobExperience**

✚ organisation: string  
✚ title: string  
✚ employmentType: string  
✚ location: string  
✚ startDate: date

❖ **ProgramDirectory**

✚ programList: ArrayList<Program>

❖ **University Rank**

✚ jobList: ArrayList<Job>  
✚ teachingStaffMeanRating: float  
✚ programMeanRating: float

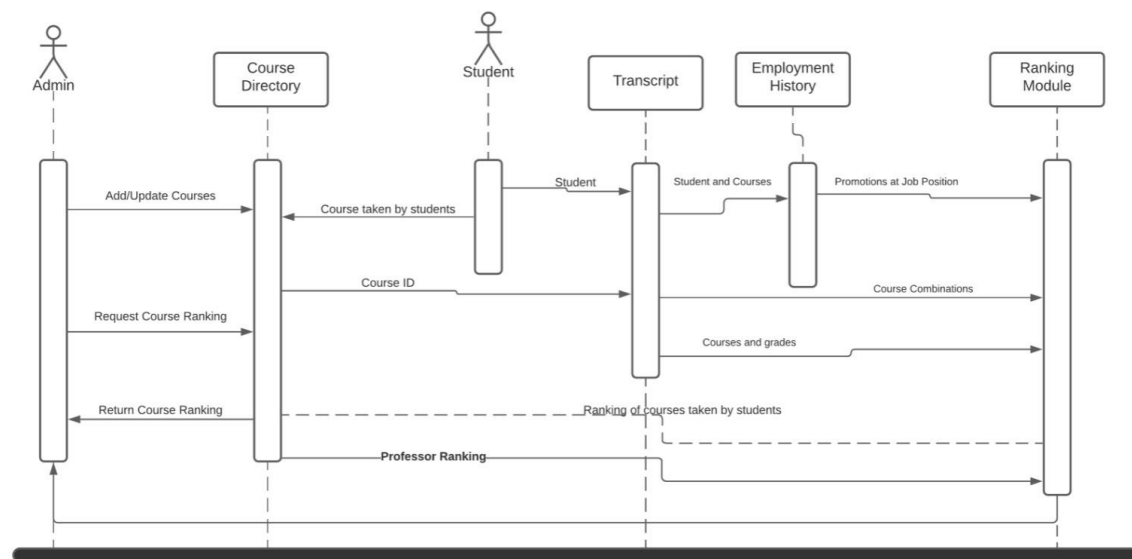
❖ **Transcripts**

✚ Courses: ArrayList<Program>  
✚ Gpa: float  
✚ graduationYear: date

❖ **Job**

✚ jobname: String  
✚ position: String  
✚ salary: String  
✚ duration: String  
✚ bonus: double

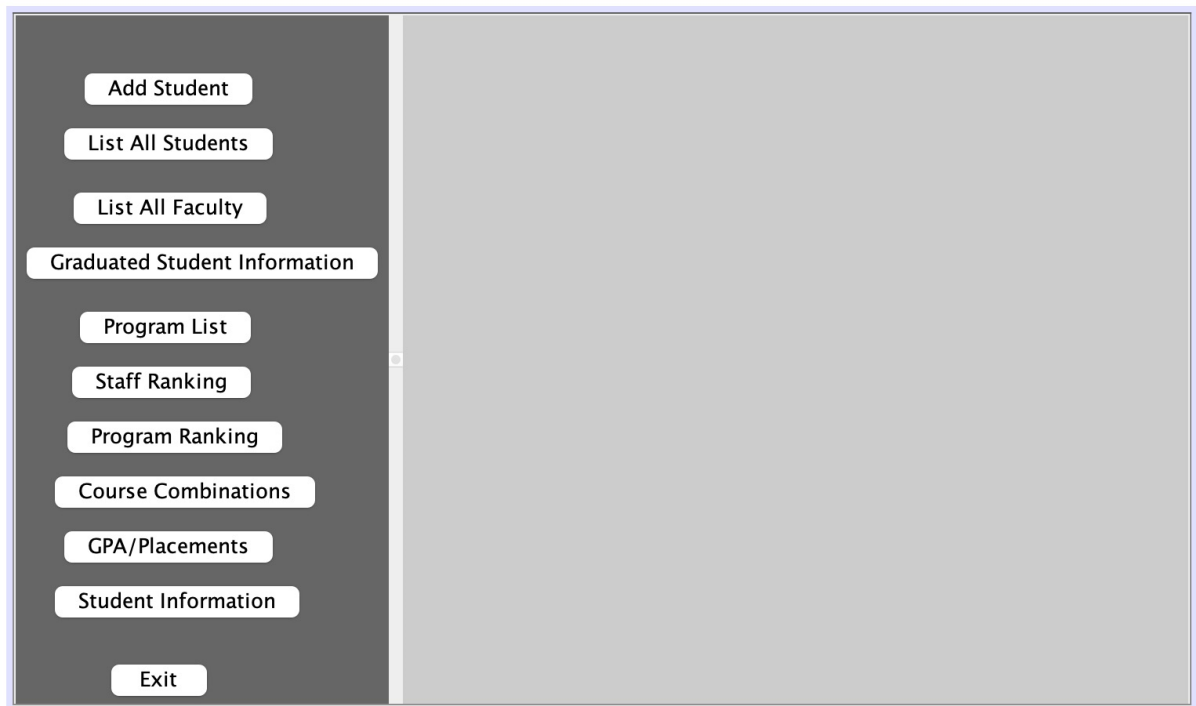
SEQUENCE DIAGRAM:



Admins can Add/Update courses in the system. Each student when they pick their courses those would be recorded in the system and the combination of the courses also would be stored in an array list. Once a student is graduated based upon their success rate the combination of courses can be seen by Admin so as to improve the performance of the students going forward. The students can give rating to professors and courses so as to increase the performance of the students.

## USER INTERFACE:

**Below is the University Model:**



Below is UI to add a new student:

The image shows the 'ENTER DETAILS' form for adding a new student. The sidebar is identical to the main menu. The main area has a title 'ENTER DETAILS' at the top. Below it are the following fields, each with a label and a text input box:

- ID :
- FIRST NAME :
- LAST NAME :
- DOB :
- EMAIL :
- EDUCATION :
- EXPERIENCE :
- GENDER :
- RACE :

Below is the UI to view the list of all students:

Add Student

List All Students

List All Faculty

Graduated Student Information

Program List

Staff Ranking

Program Ranking

Course Combinations

GPA/Placements

Student Information

Exit

Students List

StudentID	StudentName	Gender	Course
NU01	Ravi	M	IS
NU02	Nixhila	F	IS
NU03	Nithin	M	IS
NU04	Tharuni	F	IS
NU05	Kavya	F	IS
NU06	Harsha	M	IS

Below is the UI to view the list of faculty:

Add Student

List All Students

List All Faculty

Graduated Student Information

Program List

Staff Ranking

Program Ranking

Course Combinations

GPA/Placements

Student Information

Exit

Faculty List

FacultyID	FacultyName	Gender	Course
Professor1	Kal Bugarara	M	AED
Professor2	Robin	M	PSA
Professor3	Amutham	M	Web Design

Below is the UI to view the list of alumni:

Add Student

List All Students

List All Faculty

Graduated Student Information

Program List

Staff Ranking

Program Ranking

Course Combinations

GPA/Placements

Student Information

Exit

Alumini List

StudentID	StudentName	Gender	Course	Graduation Y...
NU01	Ravi	M	IS	2018
NU02	Nixhila	F	IS	2016
NU03	Nithin	M	IS	2019
NU04	Tharuni	F	IS	2018
NU05	Kavya	F	IS	2015
NU06	Harsha	M	IS	

Below is the UI to view Course List:

Add Student

List All Students

List All Faculty

Graduated Student Information

Program List

Staff Ranking

Program Ranking

Course Combinations

GPA/Placements

Student Information

Exit

Course List

ProgramID	ProgramName	Duration
INFO1001	AED	3 Months
INFO1002	PSA	3 Months
INFO1003	Web Design	3 Months
INFO1004	DMDD	3 Months

Below is the UI to view Staff Ranking:

Add Student

List All Students

List All Faculty

Graduated Student Information

Program List

Staff Ranking

Program Ranking

Course Combinations

GPA/Placements

Student Information

Exit

Staff Ranking

FacultyID	FacultyName	Course	Ranking
Professor1	Kal Bugrara	AED	1
Professor2	Robin	PSA	1
Professor3	Amutham	Web Design	2

Below is the UI to view Program Ranking:

Add Student

List All Students

List All Faculty

Graduated Student Information

Program List

Staff Ranking

Program Ranking

Course Combinations

GPA/Placements

Student Information

Exit

Program Ranking

ProgramID	ProgramName	Ranking
INFO1001	AED	1
INFO1002	PSA	2
INFO1003	Web Design	2



Below is the UI to view Enrolment info:

Add Student

List All Students

List All Faculty

Graduated Student Information

Program List

Staff Ranking

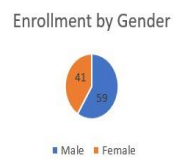
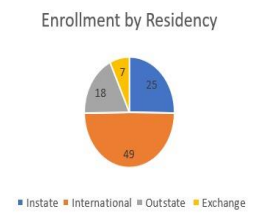
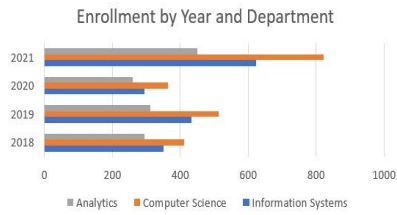
Program Ranking

Course Combinations

GPA/Placements

Student Information

Exit



Below is the UI to view info by Department:

Add Student

List All Students

List All Faculty

Graduated Student Information

Program List

Staff Ranking

Program Ranking

Course Combinations

GPA/Placements

Student Information

Exit

