

# **UNIVERSITY MODEL ASSIGNMENT REPORT**

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## **OBJECTIVE:**

The objective is to create a university model using design and programming techniques to improve the quality of education the university provides anywhere across the world which holds people accountable for improving the quality of life for people through education, learning and feedback.

## **INTRODUCTION**

- The task is to create a performance measurement solution to enable universities to measure the quality of education being delivered to students. Quality here refers to keeping the courses fresh and aligned with industry trends.
- Education system should involve faculty, courses and employers who collectively contribute to the professional growth of graduates which includes the jobs and promotions the graduates get in due period.
- Tracking the connection of courses and their relevance to the professional growth of graduates.
- Studying the relationship between GPA and industrial success.

### **Deliverables for the assignment:**

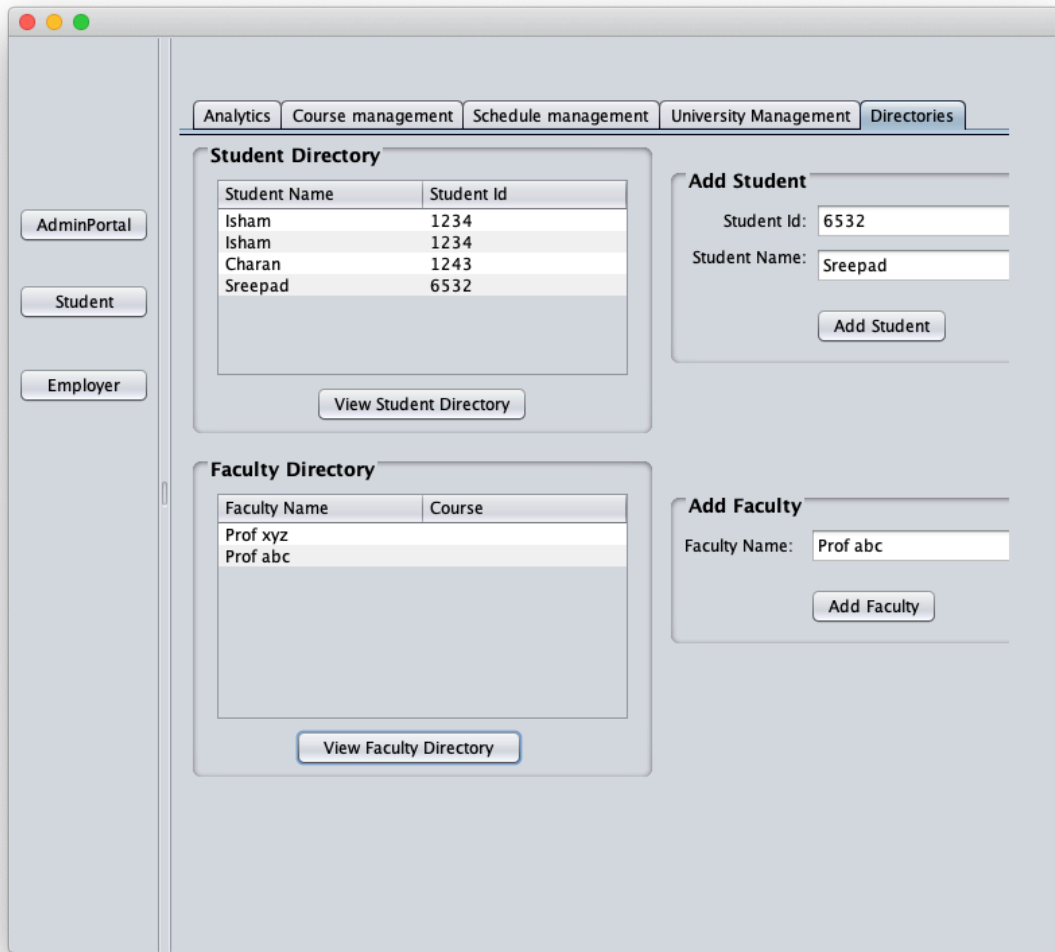
1. Implementation of a complete system at a department and college levels which outlines the solution and implementation.
2. Sequence diagram which shows how to navigate the university object model to deliver performance metrics needed for performance and feedback.
3. An object model which shows the changes to university model to support new capabilities that must include additional methods and attributes required to deliver the results.
4. Investigating how digital education systems work assuming a university is an intermediary (broker) between students and employers.

# SEQUENCE DIAGRAM

# IMPLEMENTATION

1. We started with creating the UI for the university model for 3 main functions:
  - Admin
  - Student
  - Employer
2. Admin's function is to maintain the model at university level i.e., college list, department list, faculty directory, student directory. Admin will add courses to the course catalog, create students list, create course schedule, add new faculty and add seats to a particular course.
3. Student's function is to view his/her profile, select courses available for a particular college and department, look at the courses enrolled for, calculate the cost for a particular semester, accept job offers pertaining to his/her profile.
4. Employer's function is to post jobs for the students, look at the students' profile and offer job according to the GPA and courses they took.
5. We generated the data dynamically so that respective roles can have their own discretion.
6. Admin can also view the analytics part to view the course data, financial stats.
7. Analytics part is where we can view the performance of the university in terms of quality of education and financial performance.
8. This model aims to achieve the basic functions of how the university system works, in terms of quality of education, revenue generated and the professional growth of graduates.

# Screenshots



AnalyticsCourse managementSchedule managementUniversity ManagementDirectories

AdminPortalStudentEmployer

College Directory

College: COEAdd College

College List: COEGet Colleges

Department Directory

College list: COEDepartment: ISAdd Department

Departments: ISGet Departments

Update Semester

College: COEDepartments: ISSemester: Spring 21Add semester

Semesters: Spring 21Get Semester

AdminPortal

Student

Employer

Analytics

Course management

Schedule management

University Management

Directories

College:COE

Get Data

Department:IS

Semester:Spring 21

Course:AED

Faculty:Prof abc

No of seats:32

Add to schedule

Current Scehdule:

Course	Faculty	Seats
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AdminPortal

Student

Employer

Analytics

Course management

Schedule management

University Management

Directories

Search courses

College: COE

Department: IS

Course Details

Course Name: AED

Course Number: 5100

Course Credits: 4

Add to catalog

AED

View catalog



AdminPortal  
Student  
Employer

HomeCourse ManagementStudent FinanceJob Portal

College: COEDepartment: ISSemester: Spring 21

Get CollegeGet data

Courses Available:

Course Name	Professor	No Of Seats
AED	Prof abc	32
AED	Prof abc	32
AED	Prof abc	32
AED	Prof abc	32

Enroll

AdminPortal  
Student  
Employer

HomeCourse ManagementStudent FinanceJob Portal

Courses Enrolled:

Course Name	Course Number	Credits
AED	5100	4

Get Enrolled Courses

Total Credits Enrolled: 4

Cost Per Credit: 4

Total Semester Cost: 16

Calculate Cost

AdminPortal

Student

Employer

Employer VerificationJob PostingsPost JobView PostReview Applications

Employer's Board

GetAllEmployers

Employer Selection:Accenture

Verify

AdminPortal

Student

Employer

Employer Verification

Job Postings

Post Job

View Post

Review Applications

New Job Post

Job Title: Sd

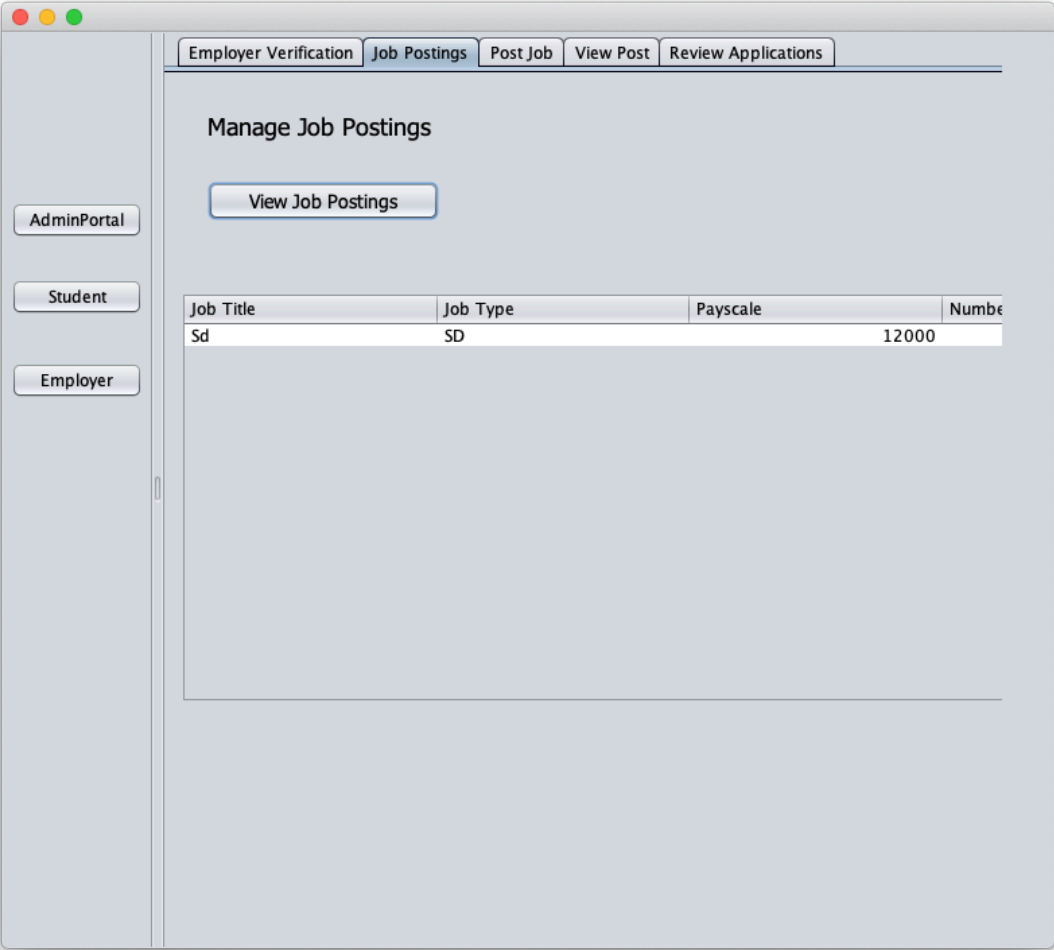
Job Type: SD

Job Requirements: xyz

Payscale: 12000

Number of Posts: 21

Post Job



AdminPortal

Student

Employer

Employer VerificationJob PostingsPost JobView PostReview Applications

Review Applications

View student profile:Item 2

Student's name:xyz

Student's department:IS

Student's GPA:3.7

Student's course list:XYZ, abc, def, ghi

Employ studentReject student