

## Assignment 3

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### Team Members –

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### Deliverables –

As part of assignment 3, this document contains points mentioned below

- Report (Explaining Problem background, addressing solution and Entities involved)
  - Sequence Diagram
  - Class Diagram
  - Dashboard (Screenshots attached)
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## REPORT

### Problem Background –

One of the greatest challenges faced by US Universities now-a-days is to keep their curriculum fresh and ensure that they are preparing their students for the real-life challenges that await them once they graduate and start working. With post-secondary education becoming common, and with technology advancing rapidly, the half-life of knowledge for advanced education is rapidly decreasing. So much so, that most of what is taught to college students in today's day and age becomes obsolete within a decade. To ensure that they are delivering quality education that is indeed helpful to their students in their real-world jobs, it is of absolute importance for universities to have a framework that allows them to track how the resources that they provide to the students like their education and faculty is contributing to the career growth of their graduates.

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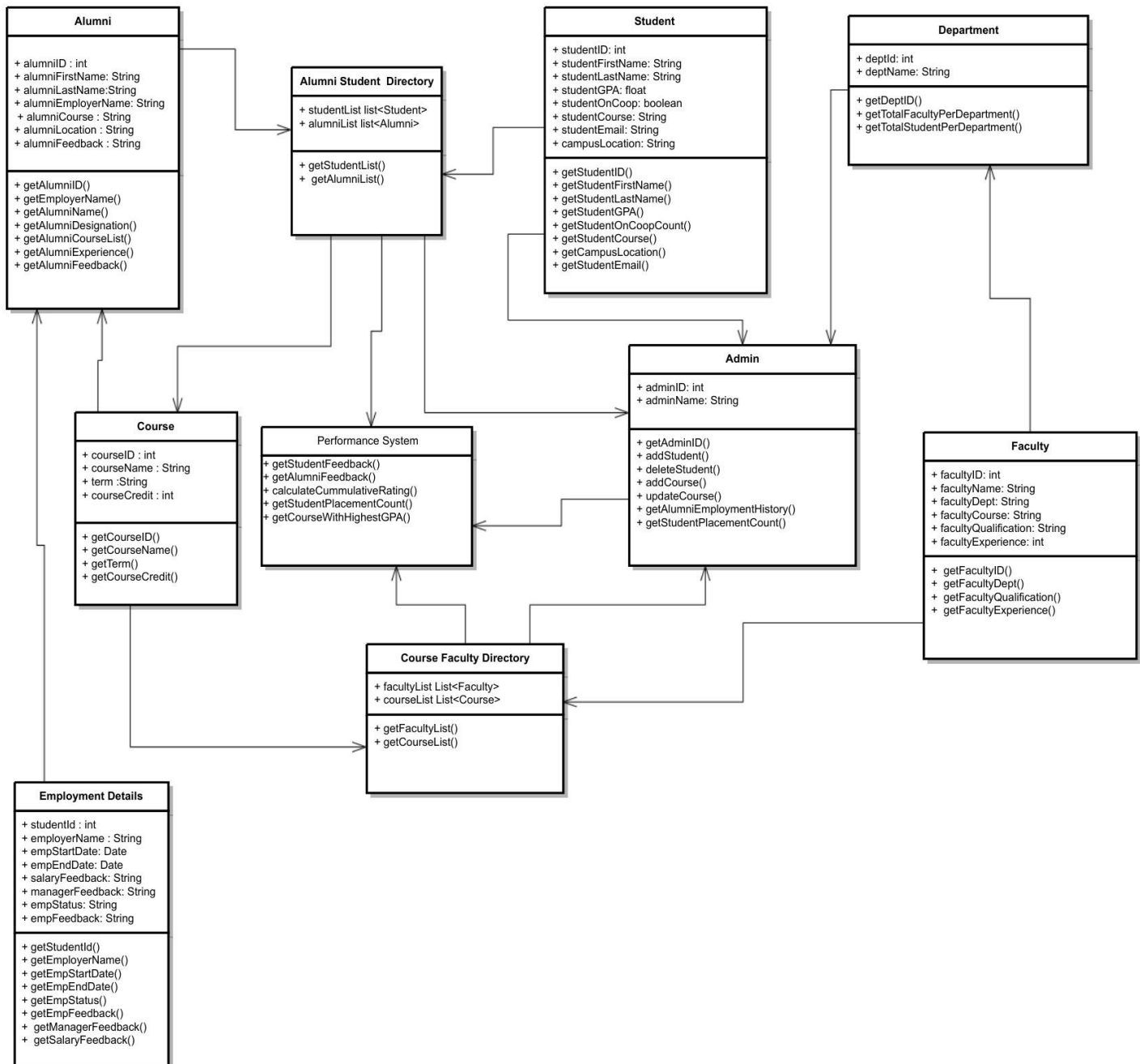
### **Proposed Solution –**

- We aim to address this problem by giving the university a platform based on Software Engineering paradigm to track the performances of all the students that belong to the various schools and colleges affiliated to the university.
  - It is powered by a Dashboard that will not only take information from both the sources, that is, Student and Alumni, but also be helpful in tracking their performance and growth over 5 years based on a specific set of parameters.
  - The parameters considered for performance review are – grades, percentage of students employed in target areas, and acquired skills among others, while those considered for the measurement of student growth, from a career-standpoint, are – promotions, and work-experience.
  - One important metric to understand how successful the university has been in meeting the educational needs of its students is the measure of satisfaction among its students. For this purpose, we have incorporated a way for students and alumni to share their feedback.
  - All these parts work in tandem to give a holistic picture of the performance overview of the university – capturing what worked, and what didn't – so that the university can target the areas it needs to work on – which is the overarching goal of the solution.
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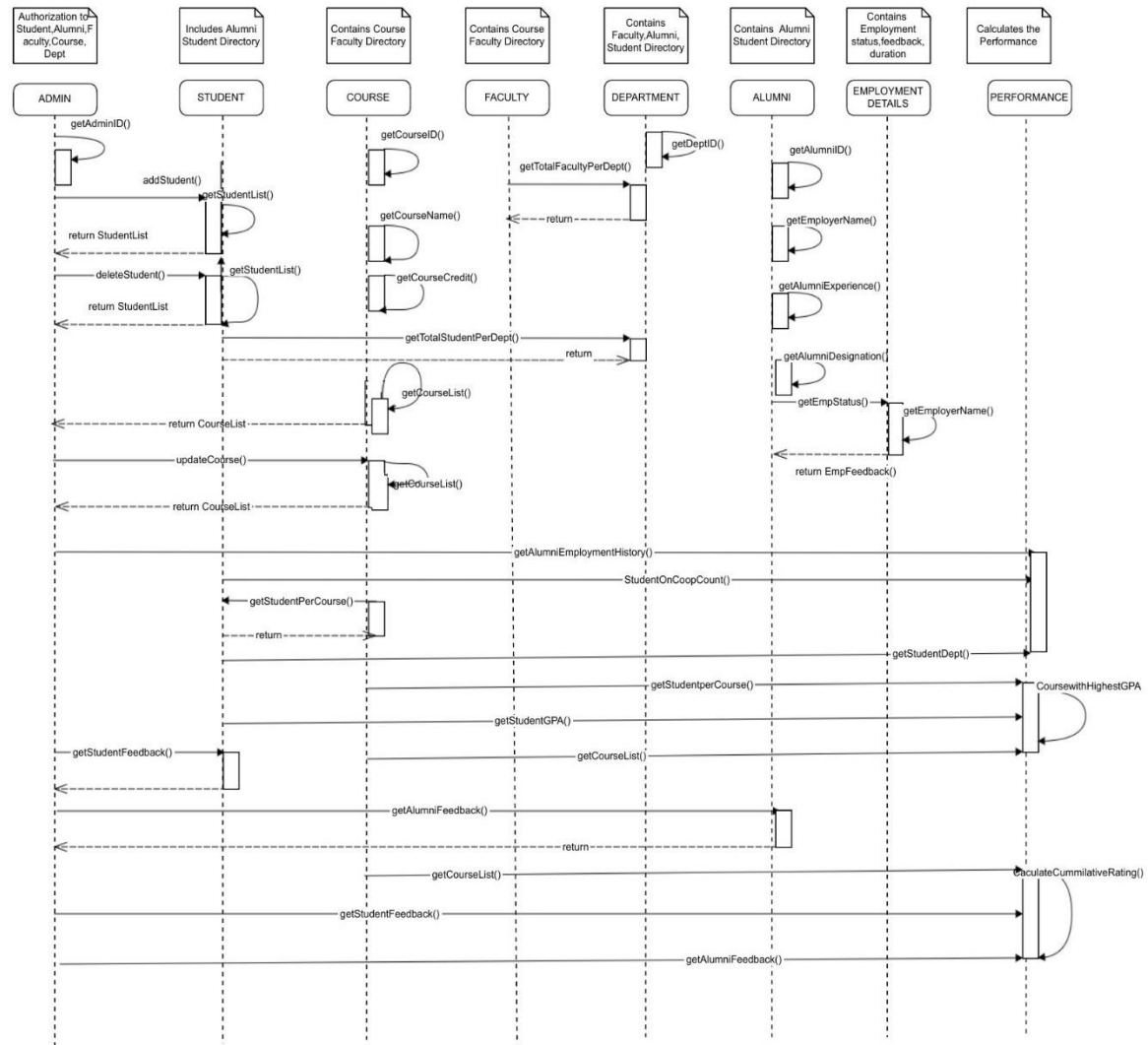
### **Classes–**

1. Student
2. Alumni
3. Faculty
4. Courses
5. Department
6. Administrator
7. Employment Details
8. Performance

## Class Diagram –

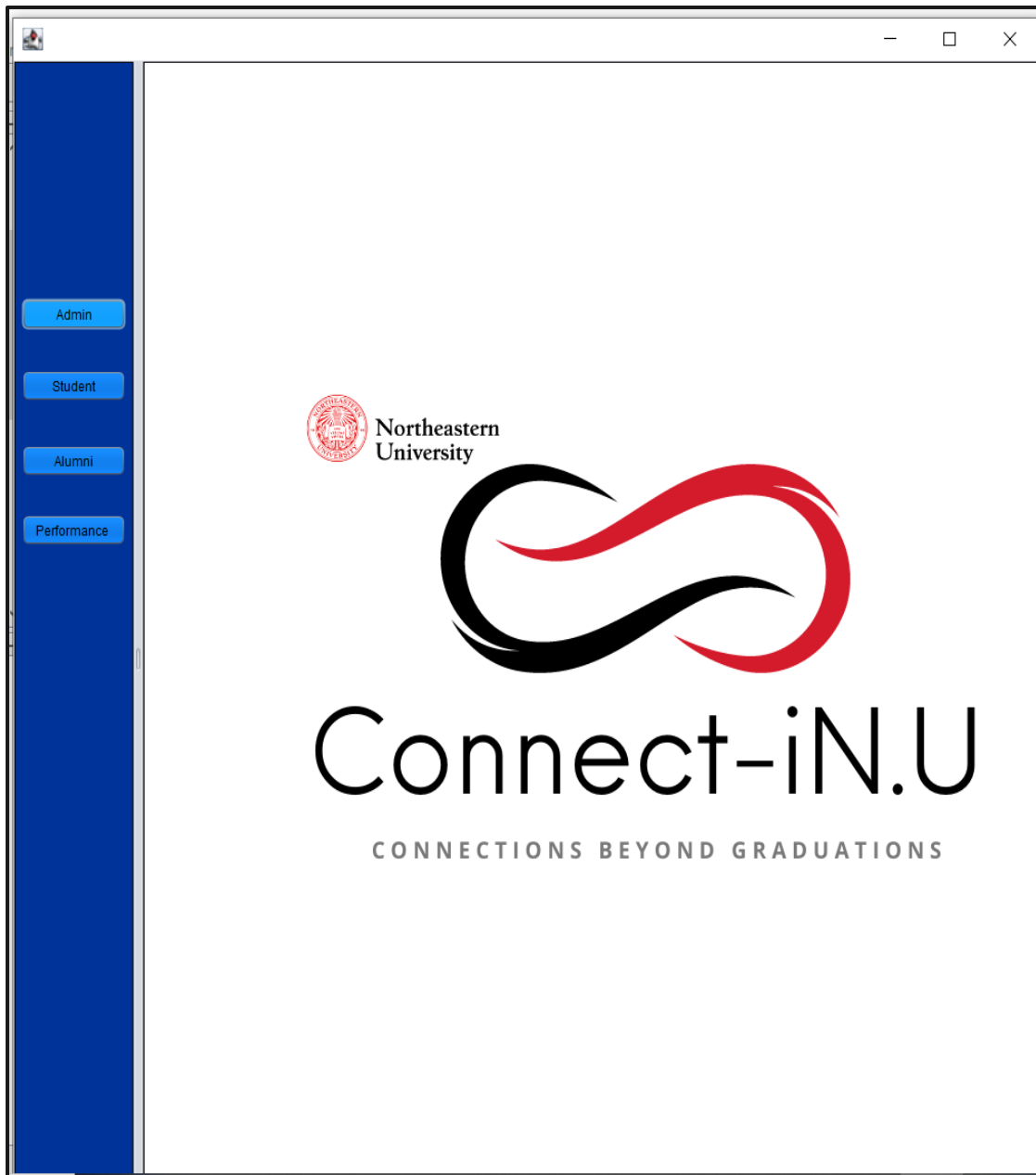


## Sequence Diagram -



## DASHBOARD

### 1. Homepage



## 2. Display of Student/Alumni Feedback Responses

[illegible]

### 3. Display of Student/Alumni Feedback Responses:

The screenshot displays a web application window titled "Feedback Details". On the left is a dark blue sidebar with four buttons: "Admin", "Student", "Alumni", and "Performance". The main content area is divided into two sections. The top section, "Student Feedback", contains a table with five columns: "Dept Name", "Student Id", "Course", "GPA", and "FeedBack". The table has three visible rows, with the first two being white and the third being grey. The bottom section, "Alumni Feedback", also contains a table with the same five columns. This table has three visible rows, with the first two being white and the third being grey. The application window has standard OS controls (minimize, maximize, close) in the top right corner.

### Feedback Details

**Student Feedback**

Dept Name	Student Id	Course	GPA	FeedBack

**Alumni Feedback**

Dept Name	Student Id	Course	GPA	FeedBack

#### 4. Form to collect Student Responses

Admin

Student

Alumni

Performance

Current Student Feedback

Student Details

First Name:

Last Name:

Student Id:

Email Id:

Department:

Campus Location:

Graduation Year:

YYYY

Term:

Academic Details:

Course 1:

Course 2:

Faculty Name:

Grades:

Curriculum Feedback:

Select

Curriculum Feedback:

Select

Faculty Feedback:

Select

Faculty Feedback:

Select

Grades:

Grades:

Add Course Details

Employment Details

Employer Name:

Location:

Start Date

MM/DD/YYYY

End Date:

MM/DD/YYYY

Employment Status:

Select

Salary Feedback:

Select

Employment Feedback:

Select

Manager Feedback:

Select

Add Employment Details

Save

manufacturer [TextField]



## 5. Form to collect Alumni Responses

Admin

Student

Alumni

Performance

Alumni Feedback

Student Details

First Name:

Last Name:

Student Id:

Email Id:

Department:

Campus Location:

Graduation Year:

YYYY

Term:

Academic Details:

Course 1:

Course 2:

Faculty Name:

Grades:

Curriculum Feedback:

Select

Curriculum Feedback:

Select

Faculty Feedback:

Select

Faculty Feedback:

Select

Grades:

Grades:

Add Course Details

Employment Details

Employer Name:

Location:

Start Date

MM/DD/YYYY

End Date:

MM/DD/YYYY

Employment Status:

Select

Salary Feedback:

Select

Employment Feedback:

Select

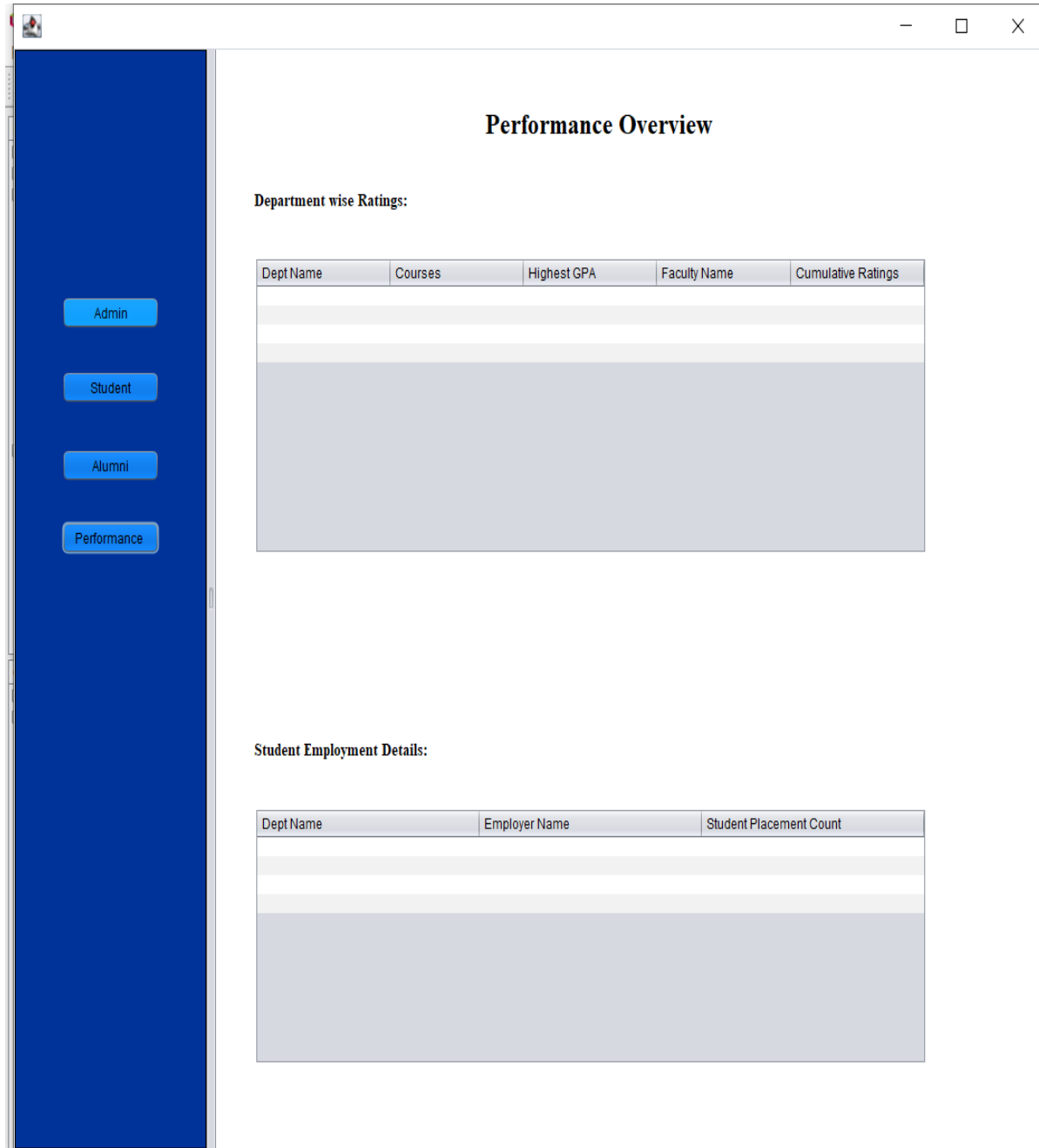
Manager Feedback:

Select

Add Employment Details

Save

**6. Display of Performace Metrics for Student/Alumni Employment and Curricular activities.**



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