

# REPORT ON ALUMNI PERFORMANCE TRACKING

*Submitted by*

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## 1. Introduction

### 1.1 Objective:

- To create a performance measurement solution to enable universities to measure the quality of the education they deliver to their students
- To design a dashboard that enables college and university administrators to compare the performance of their academic units
- Develop a personalized ranking system for students to decide where they want to go for their studies
- To look into areas of contribution of courses and faculty in the growth of graduate over a 5 years period.
- Understanding the connection of the courses taken by Student and its relevance to Graduates growth.

### 1.2 Deliverables:

- Report outlining the proposed solution.
- Sequence diagrams showing how to navigate the university object model to deliver performance metrics needed for performance and feedback
- An object model showing the changes to the university model to support the new capabilities
- An application which enable the creation and update functions for any of the attributes of concern.

## 2. Object Model:

- The model diagram proposed has various units like alumni, department, college, university, etc.
- The ranking that is developed on various parameters acts as a filter while getting all the alumni records in the university
- Transcripts can be used to get normal ranking of the student depending only on the GPA
- All the units are stored in the ArrayList<> of its unit type for example alumni are stored in alumni database using ArrayList<Alumni>

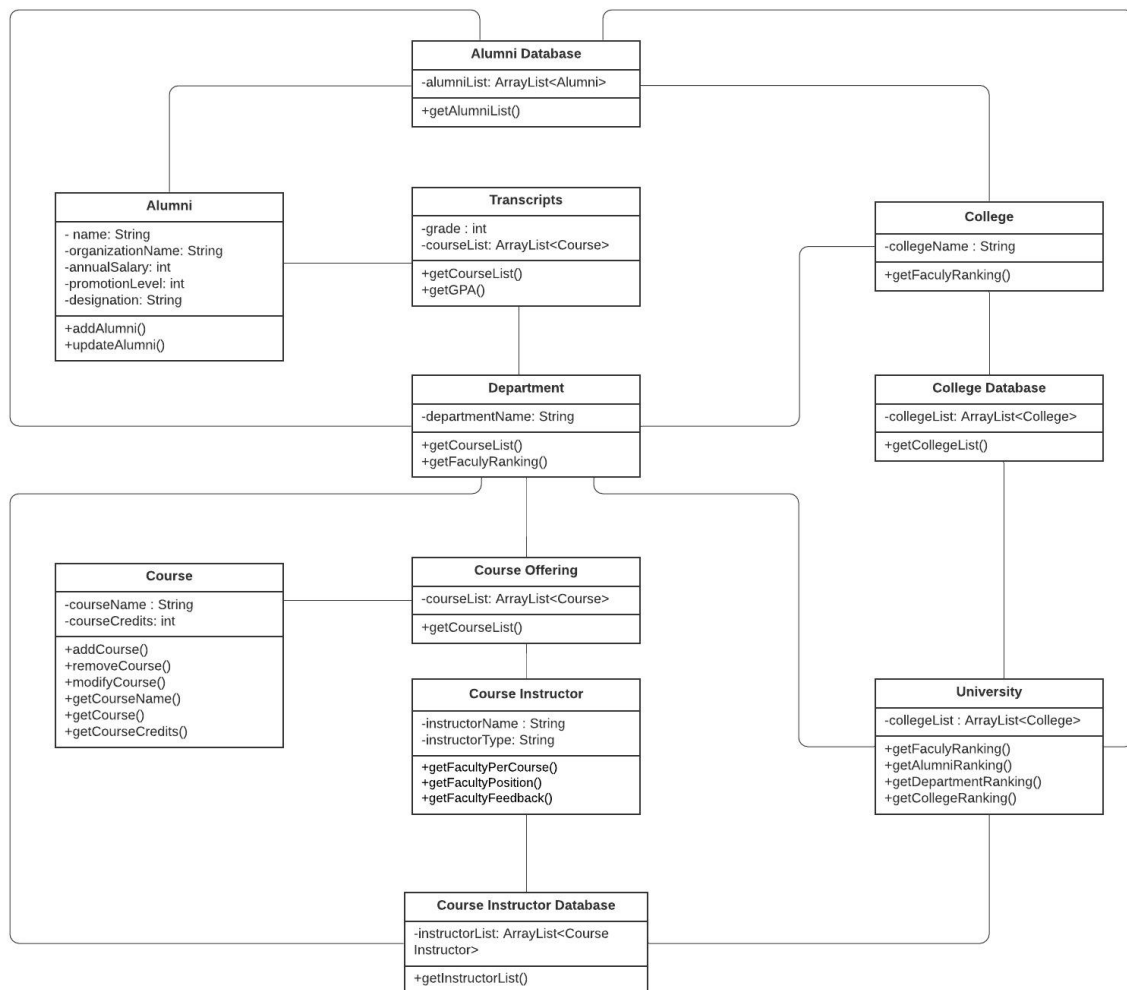


Figure 1: Object Model Diagram

### 3. Sequence Diagram

- Alumni is the main actor in this model and University acts as the admin.
- Alumni will have the detailed of their jobs and promotions
- The university can fetch rankings with various primary factors like:
  1. College
  2. Department
  3. Faculty
  4. GPA
  5. Career Achievement

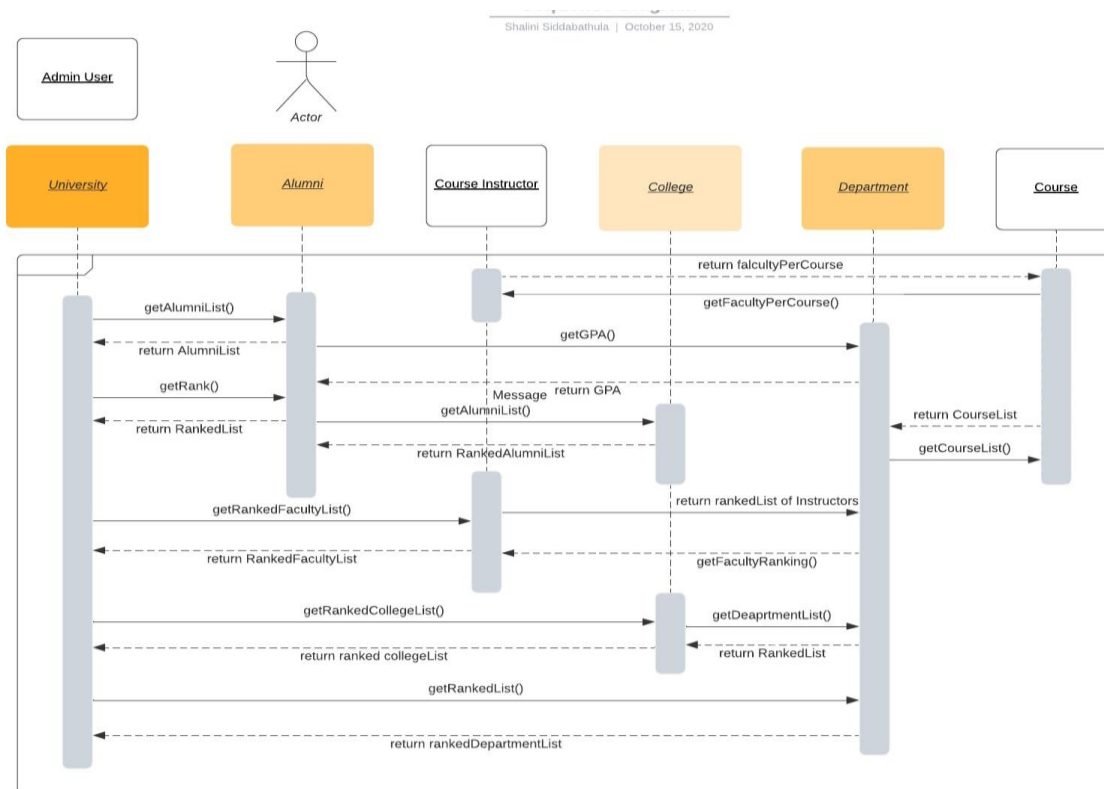


Figure 2: Sequence Diagram

## 4. Alumni

Profile of every Alumni can be created and updated according to the requirement. Based on the various parameters provided by Alumni his performance would be calculated. The parameters for the Alumni who is Self-employed / Entrepreneur are as follows:



**StartUp Alumni**

Total Employees: ☐ 2000 plus ☐ 1000-2000 ☐ 500-1000 ☐ <500

Funding: ☐ 100k+ ☐ 50k-100k ☐ 25k-50k ☐ <25k

Returns: ☐ 100k+ ☐ 50k-100k ☐ 25k-50k ☐ <25k

Course Impact: ☐ Highly Satisfied ☐ Moderate ☐ Partially Satisfied ☐ Unsatisfied

GPA: ☐ >4 ☐ 3.5-4 ☐ 3-3.5 ☐ <3

Figure 3: StartUp Alumni Page

Parameters for Salaried Alumni are as follows:



**Salaried Alumni**

Company Position: ☐ Forbes 100 ☐ Forbes 100-300 ☐ Forbes 300-500 ☐ Other

Annual Salary: ☐ 100k+ ☐ 50k-100k ☐ 25k-50k ☐ <25k

Promotions: ☐ 0 ☐ 1 ☐ 2 ☐ More than 2

Course Impact: ☐ Highly Satisfied ☐ Moderate ☐ Partially Satisfied ☐ Unsatisfied

GPA: ☐ >4 ☐ 3.5-4 ☐ 3-3.5 ☐ <3

Figure 4: Salaried Alumni Page

## 5. Ranking Criteria

### 1. Score distribution for Entrepreneurs:

- Total Employees working under them:
  - I. 2000<=: **10**
  - II. 1000-2000: **8.5**
  - III. 500-1000: **7**
  - IV. <500: **5**
- Investments & Funding:
  - I. 100K+: **10**
  - II. 50K-100K: **8.5**
  - III. 25K-50K: **7**
  - IV. <25K: **5**
- Impact from Course:
  - I. Highly Satisfied: **10**
  - II. Moderate: **8**
  - III. Partially Satisfied: **5**
  - IV. Unsatisfied: **2**
- Returns:
  - I. 100K+: **10**
  - II. 50K-100K: **8.5**
  - III. 25K-50K: **7**
  - IV. <25K: **5**
- GPA:
  - I. >4: **10**
  - II. 3.5 - 4: **8**
  - III. 3 - 3.5: **5**
  - IV. <3: **2**

## 2. Score distribution for Salaried:

- Company Tier:
  - I. Forbes 100: **5**
  - II. Forbes 100-300: **7**
  - III. Forbes 300-500: **10**
  - IV. Other: **3**
- Annual Salary (in \$):
  - I. 100K+: **10**
  - II. 50K-100K: **8.5**
  - III. 25K-50K: **7**
  - IV. <25K: **5**
- No. of Promotions:
  - I. 0: **1**
  - II. 1: **4**
  - III. 2: **7**
  - IV. More than 2: **10**
- Impact from Courses:
  - I. Highly Satisfied: **10**
  - II. Moderate: **8**
  - III. Partially Satisfied: **5**
  - IV. Unsatisfied: **2**
- GPA:
  - I. >4: **10**
  - II. 3.5 – 4: **8**
  - III. 3 – 3.5: **5**
  - IV. <3: **2**



## 6. Performance Tracking

### 6.1 Ranking based on College Performance:

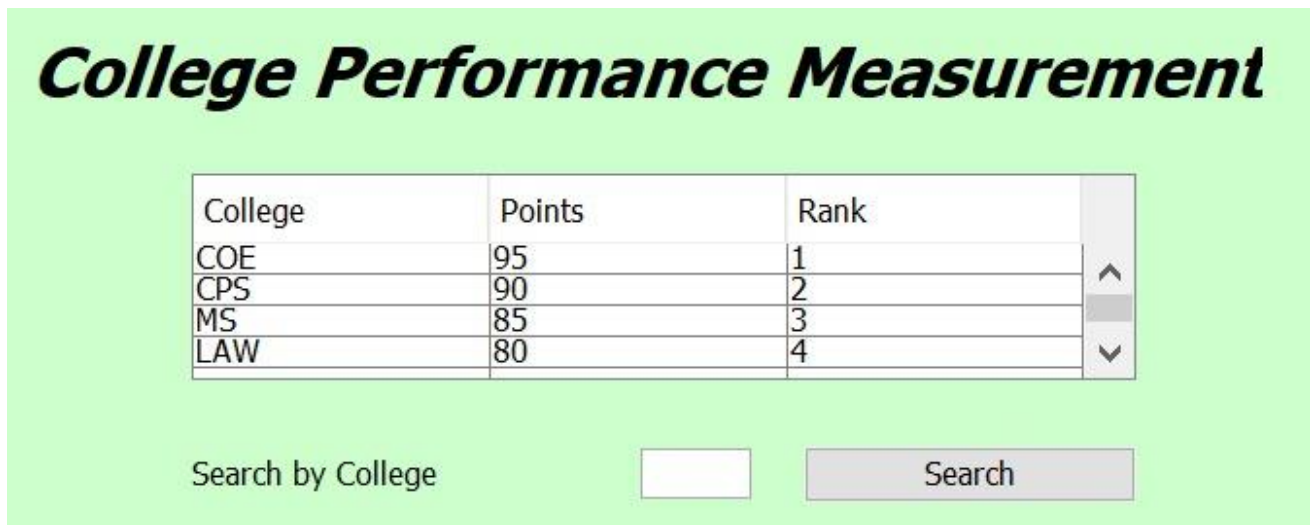


Figure 5: College Performance Measurement

Every College has been given a score and Rank. The score is the aggregate of score of each Alumni who has studied in that College.

## 6.2 Ranking within College

### ***Performance by Specific College***

Name	College	Departm...	Points	Rank
Mike	COE	MIS	95	1
David	COE	UI	90	2
Krishna	COE	Devops	85	3
Christina	COE	DS	80	4

Figure 6: Performance by Specific College

Alumni Record specific to a College can be searched. It will fetch you the details of Alumni in that college.

### 6.3 Performance within Department

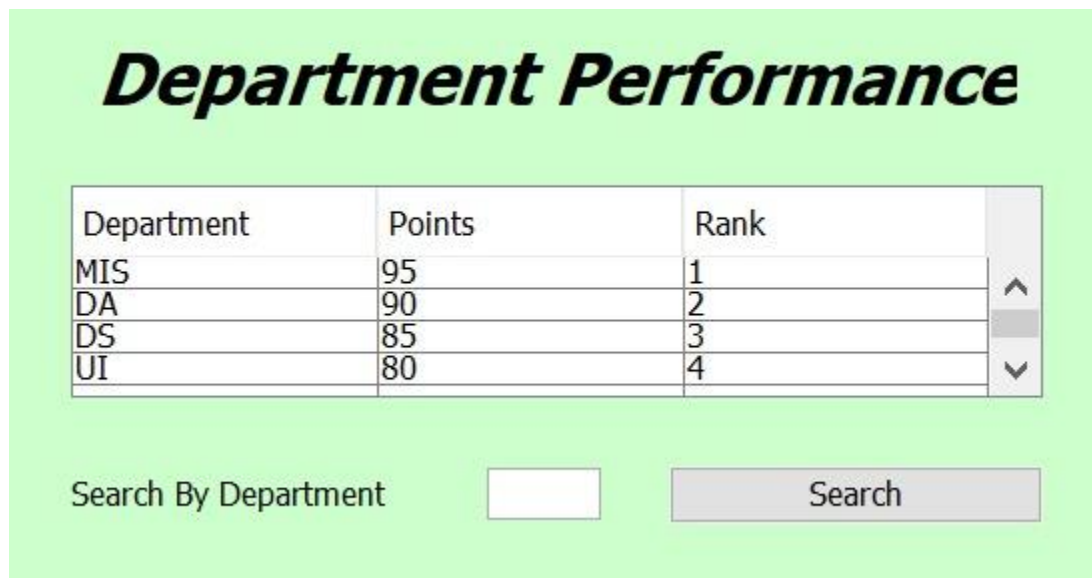


Figure 7: Department Performance

Every Department has been given a score and Rank. The score is the aggregate of score of each Alumni who has studied in that Department.

Alumni Record specific to a Department can be searched. It will fetch you the details of Alumni in that Department.

## 6.4 Ranking & Performance within University

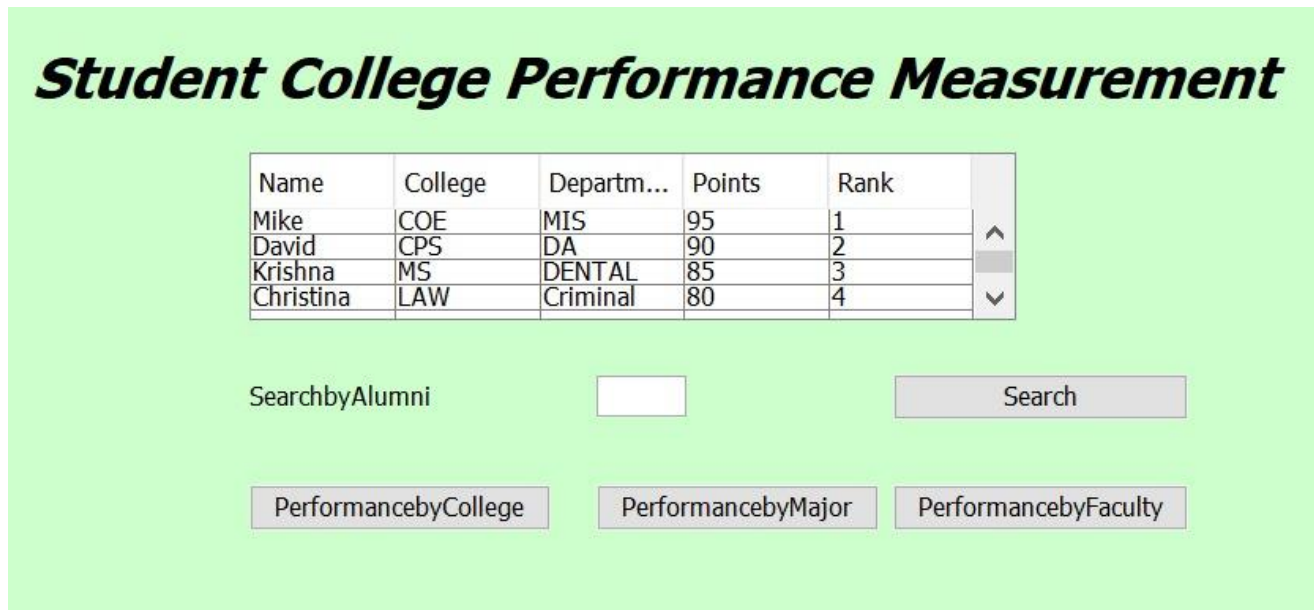
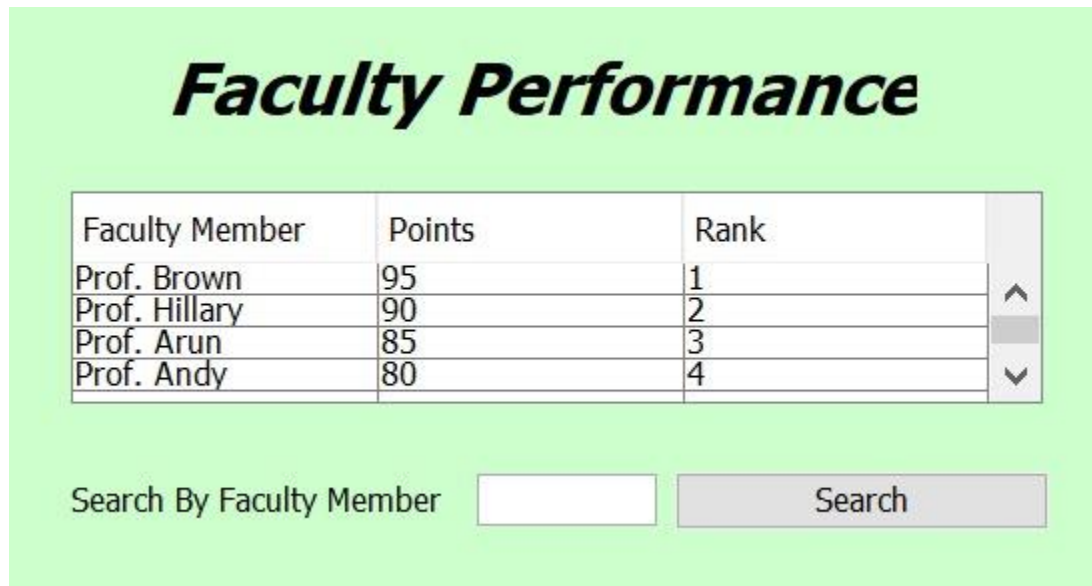


Figure 8: Student College Performance Measurement

The table above will have information of every alumni of the University, the score would be calculated based on the parameters in above page, and the list would be in order of Rank of Alumni . We can also fetch details of a specific Alumni based on his Name.

Performance specific to College, Department, or Faculty can be accessed by the respective Buttons at bottom of the Panel.

## 6.5 Ranking for Faculty

The image shows a web interface titled "Faculty Performance" in a large, bold, italicized font. Below the title is a table with three columns: "Faculty Member", "Points", and "Rank". The table contains four rows of data. To the right of the table is a vertical scrollbar. Below the table is a search section with the text "Search By Faculty Member" followed by a text input field and a "Search" button.

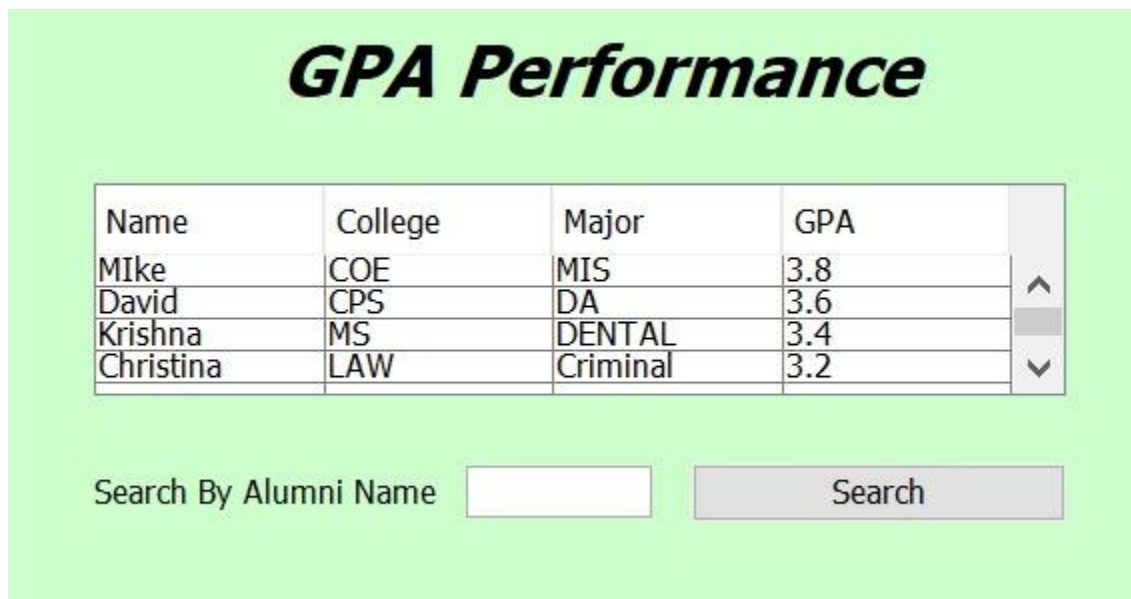
Faculty Member	Points	Rank
Prof. Brown	95	1
Prof. Hillary	90	2
Prof. Arun	85	3
Prof. Andy	80	4

Search By Faculty Member

Figure 9: Faculty Performance

Every Faculty has been given a score and rank. The score is the aggregate of score of each Alumni who has taken course of the Faculty.

## 6.6 Ranking based on GPA

The image shows a web interface titled "GPA Performance" in a large, bold, italicized font. Below the title is a table with four columns: Name, College, Major, and GPA. The table contains four rows of data. To the right of the table is a vertical scrollbar. Below the table is a search section with the text "Search By Alumni Name" followed by a text input field and a "Search" button.

Name	College	Major	GPA
MIke	COE	MIS	3.8
David	CPS	DA	3.6
Krishna	MS	DENTAL	3.4
Christina	LAW	Criminal	3.2

Search By Alumni Name

Figure 10: GPA Performance

Every Alumni's GPA major and College would be displayed in this page.