Report

Performance Measurement Solution For University

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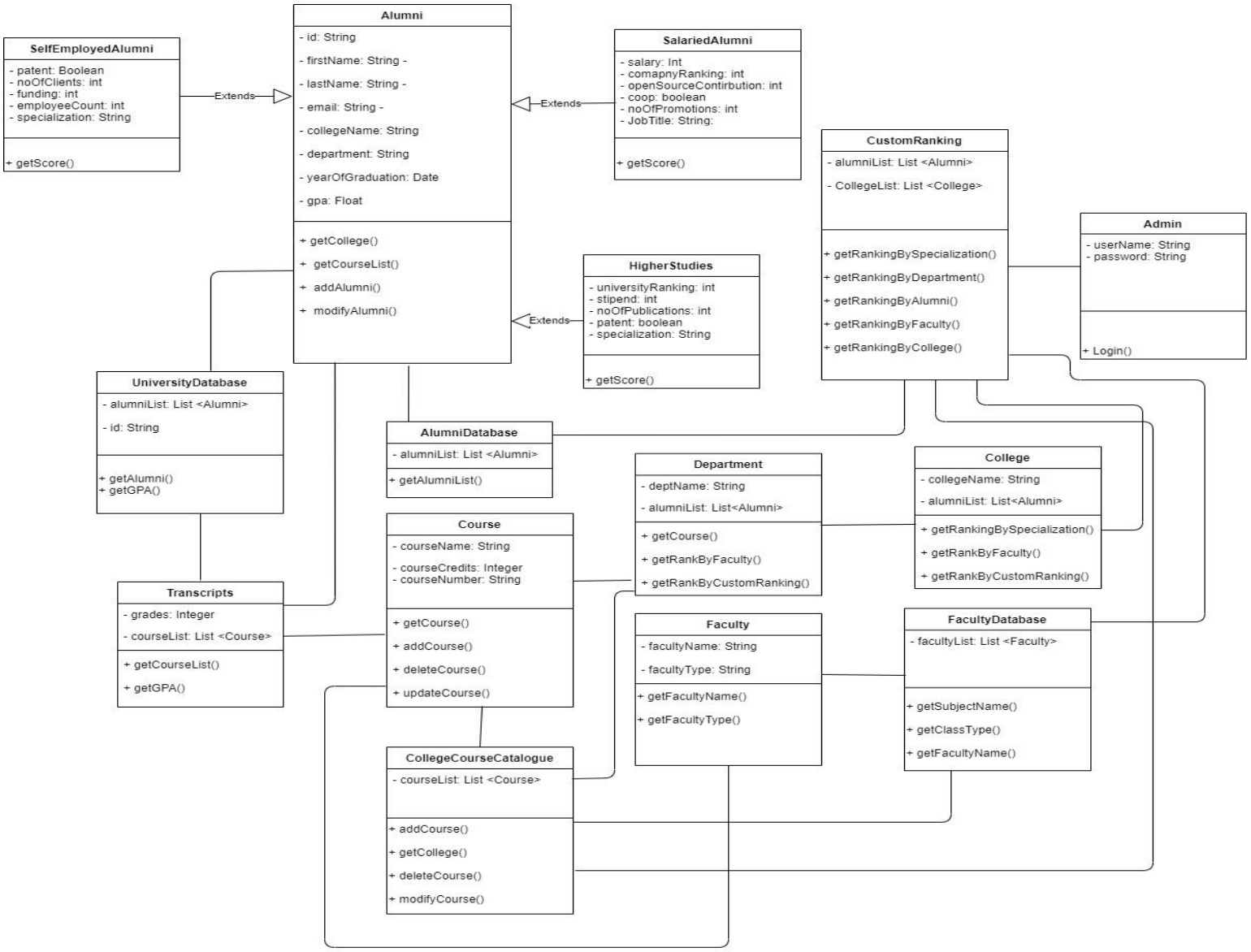
1. Introduction

Objectives:

- The main objective is 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.
- The motive is to provide a performance measurement solution to enable universities to measure the quality of the education they deliver to their students.
- The connection of the courses taken by the Students in a university and its relevance to a specific Student's/ Graduate's growth in his career through academics.
- The Admin shall be able to compare the performance of the various components of the University and take action accordingly.

2. Object Model Diagram:

- The model diagram proposed has multiple units like alumni, department, college, university etc .
- The ranking or the (custom ranking) that is proposed, is based on various parameters and acts as a filter while getting all the records of the alumni in the university.



- Transcripts are used to get the normal ranking of the university solely based on the GPA.

3. The Sequence Diagram

- Alumni is the main actor and University is the Admin.
- The Salary parameter corresponding title in the Salaried Alumni section will be the parameter to assess the ranking of the alumni
- The university will fetch the rankings with various primary factors like:
    1. By Alumni
    2. By Course
    3. By Department
    4. By Faculty
    5. By College

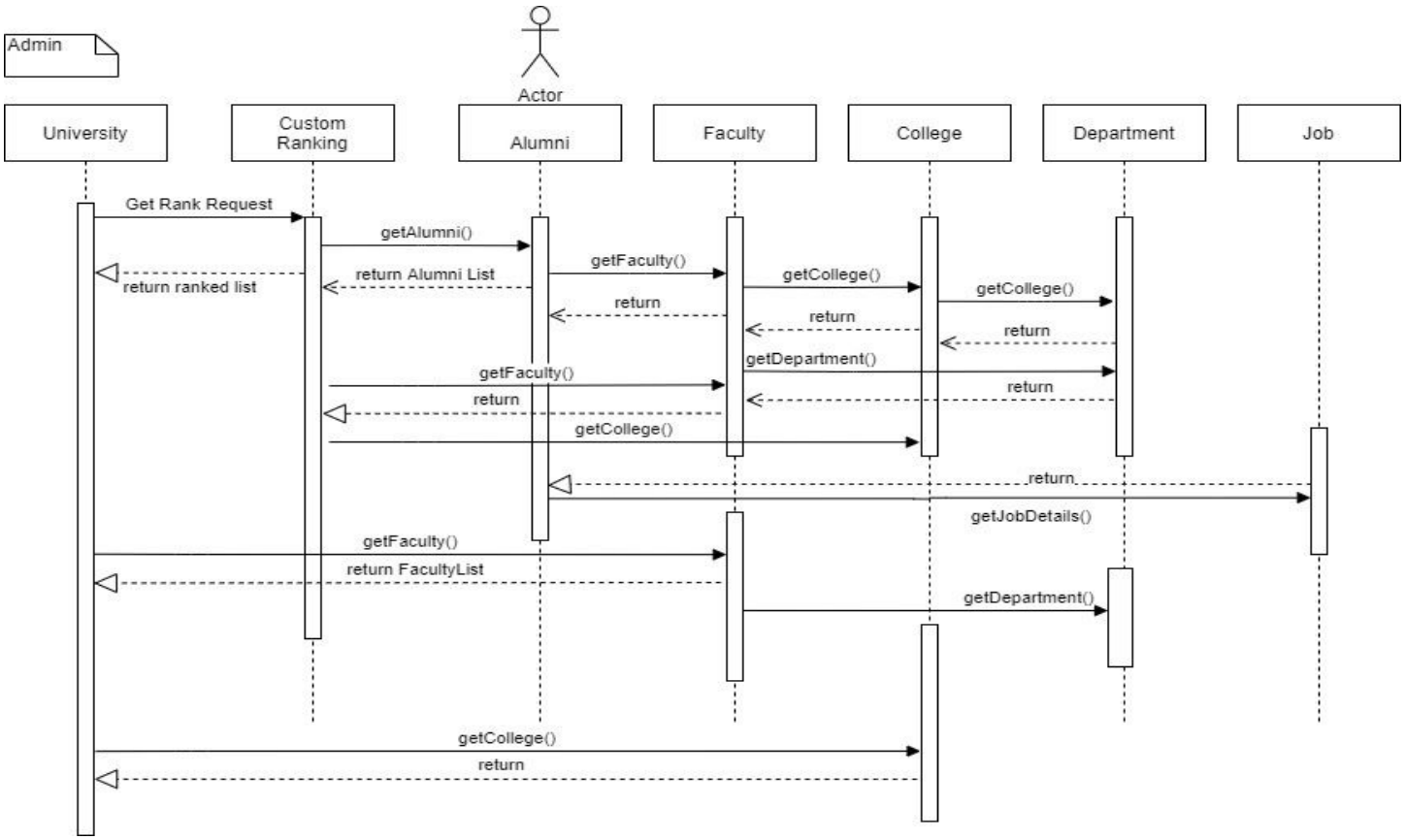
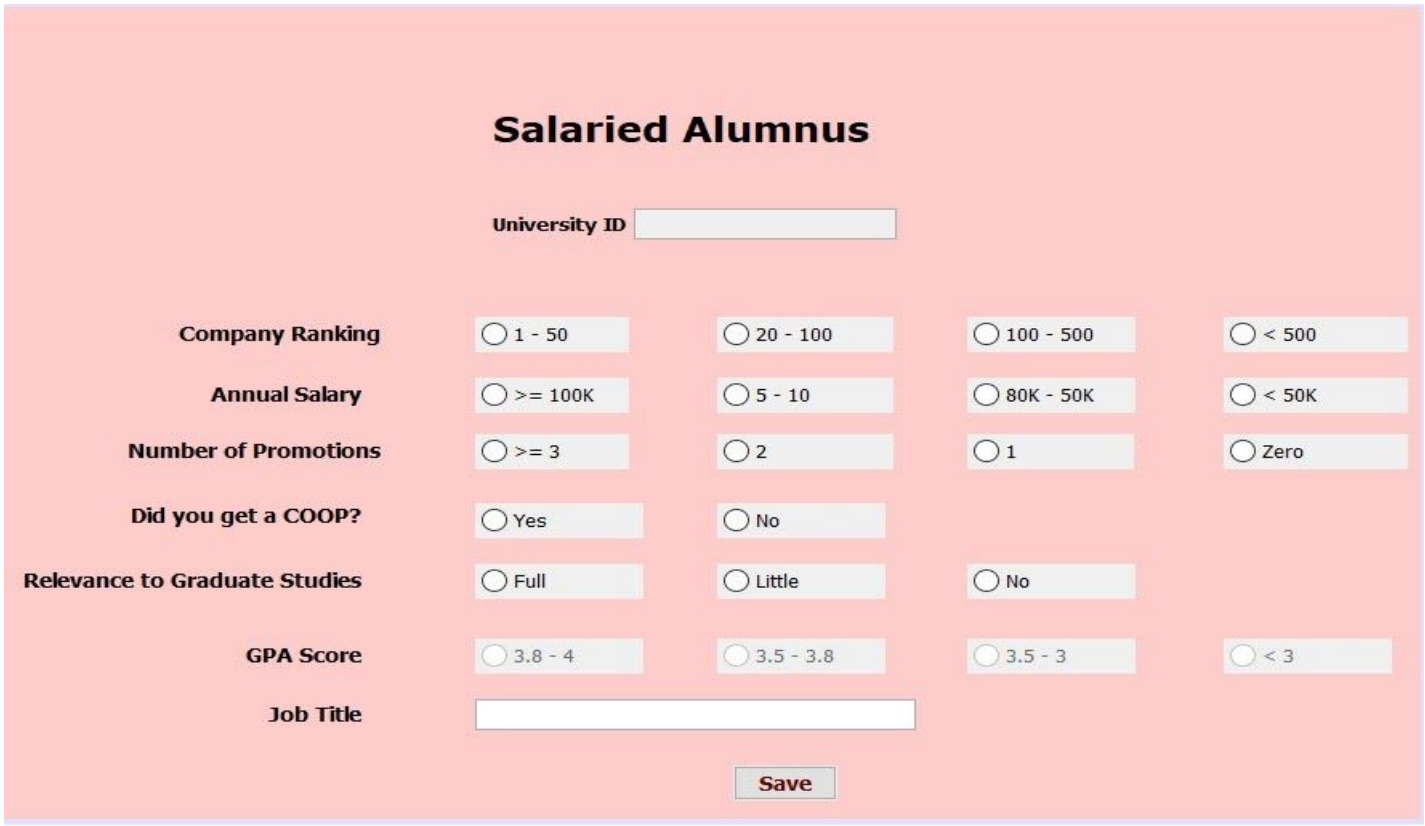


Fig: The Sequence diagram depicting the flow of getting custom ranking.

4. Alumni Profile:

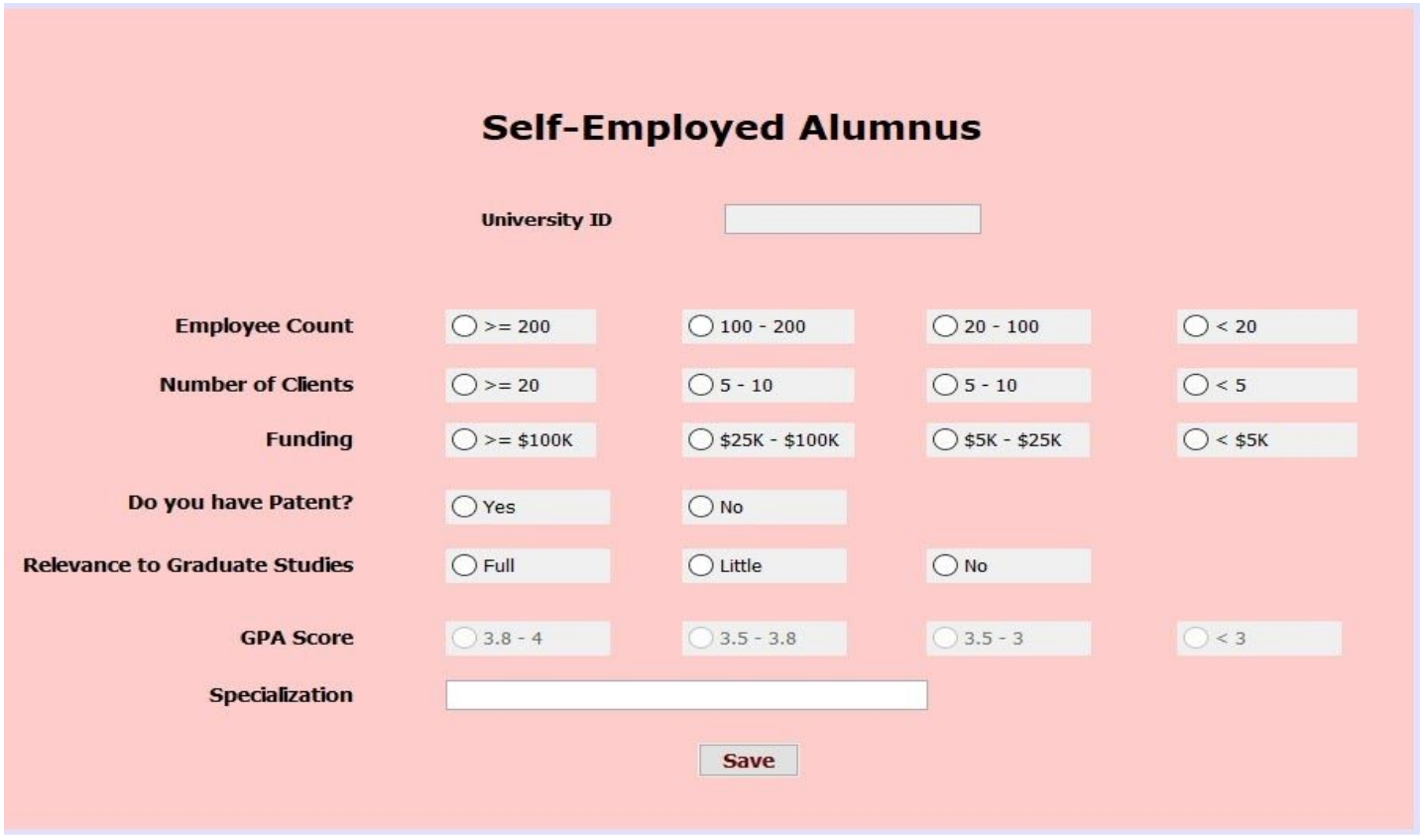
4.1: Alumni Profile of Employed and Salaried

Profiles of every Alumni would be created. Alumni could be a self employed or Salaried. Based on the various parameters provided by the Alumni his performance would be calculated. The parameters for the Alumni who is Salaried / Working is as follows:



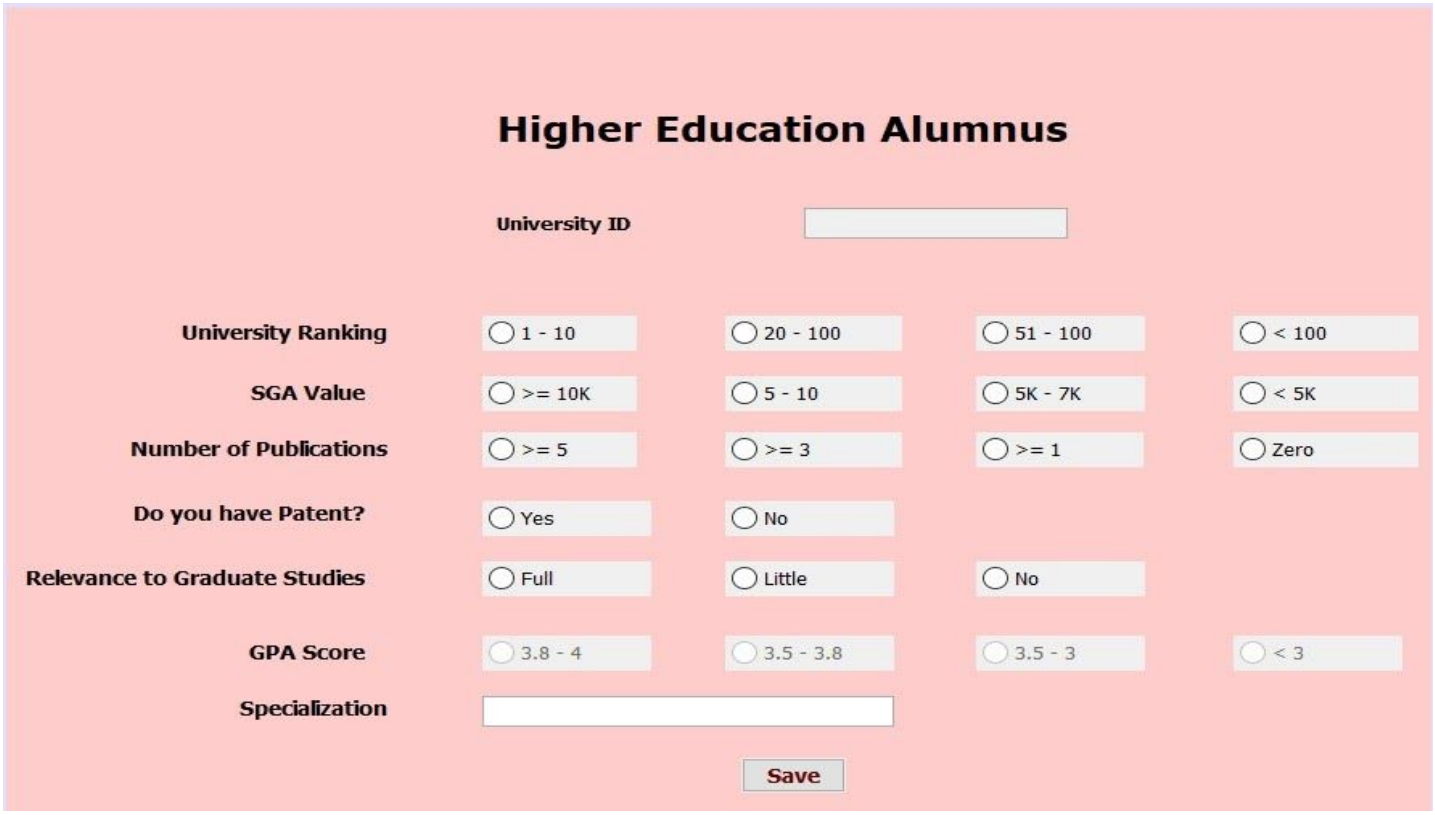
4.2: Alumni Profile of Self-Employed and Salaried

Profiles of every Alumni would be created. Alumni could be a self employed or Salaried. Based on the various parameters provided by the Alumni his performance would be calculated. The parameters for the Alumni who is Self Employed is as follows:



4.3: Alumni Profile of Higher Studies:

Profiles of every Alumni would be created. Alumni could be a self employed or Salaried. Based on the various parameters provided by the Alumni his performance would be calculated. The parameters for the Alumni who is pursuing Higher Education is as follows:



5. The Ranking Criteria:

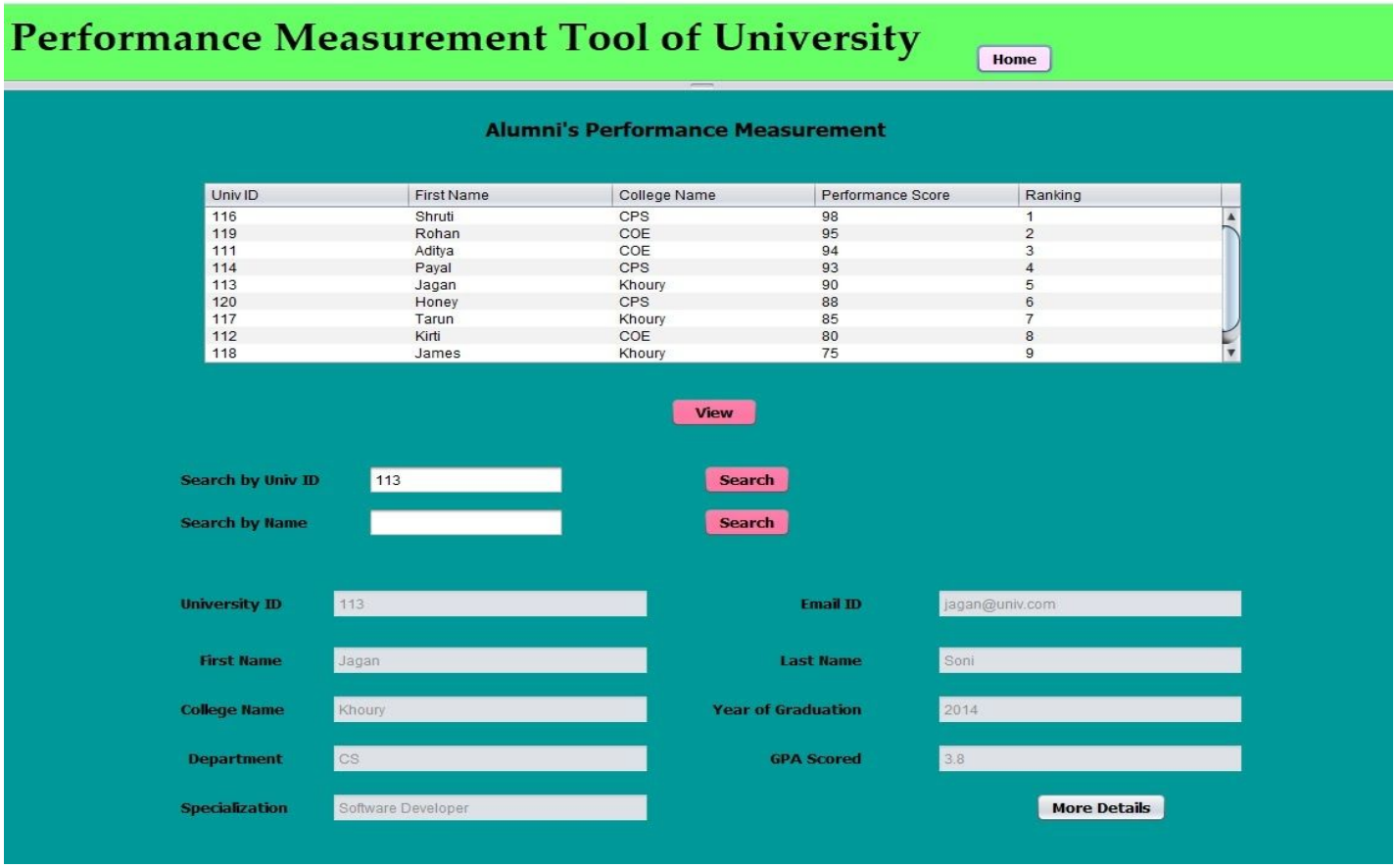
Self Employed	**Salaried**	**HigherStudies**
Employee Count 200 or more :10 100-200 :7 20-100 :4 Less than 20 :0	***Company Ranking*** Top 50 :10 Top 100 :7 Top 500 :5	***University Ranking*** More than 200 :2 100-200 :5 20-100 :7 Less than 20 :10
No of Clients More than 20 :10 10-20 :7 5-10 :5 Less than 5 :2	***No Of Promotions*** More than 100k :10 25-100k :7 5-25k :5 Less than 5k :2	***No Of Publications*** More than 5 :10 3-5 :5 1-2 :2
Funding($) More than 100k :30 25k-100k :7 5-25k :5 Less than 25k :2	***Salary($)*** More than 100k :30 100-80k :7 80-50k :5 Less than 50k :2	***SGA Value*** More than 20 :30 10-20 :7 5-10 :5 Less than 5 :2
Patent Yes :10 No :0	***Open Source contribution*** More than 100 :10 50-100 :7 0-50 :5	***Patent*** Yes :10 No :0

Relevance to Graduate Studies Full :10 Little :5 No :0	***Relevance to Graduate Studies*** Full :10 Little :5 No :0	***Relevance to Graduate Studies*** Full :10 Little :5 No :0
GPA 3.8 - 4 :10 3.5-3.8 :7 3.5-3 :5 Less than 3 : 2	***GPA*** 3.8 - 4 :10 3.5-3.8 :7 3.5-3 :5 Less than 3 : 2	***GPA*** 3.8 - 4 :10 3.5-3.8 :7 3.5-3 :5 Less than 3 : 2
COOP Yes :20 No :0	***COOP*** Yes :20 No :0	***COOP*** Yes :20 No :0

6.Performance Measurement:

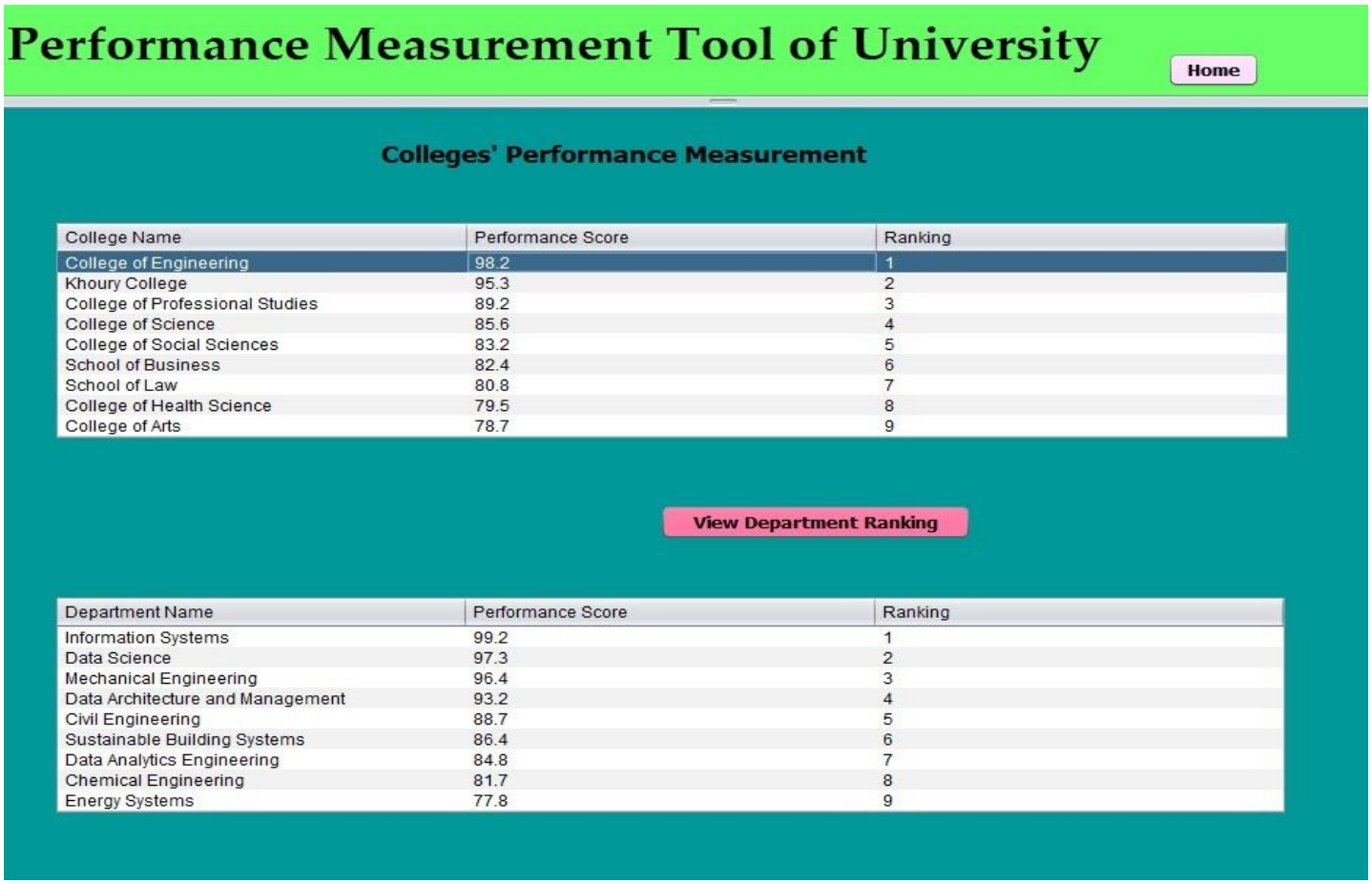
6.1 Performance by Alumni and GPA:

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



6.2: Performance By College and Departments :

Every College has been given a score and Rank. The score is the aggregate of the score of each Alumni who has studied in that College. Alumni Record specific to a College can be searched. It will fetch you the details of Alumni in that particular college.



6.3: Performance By Faculty:

Every Faculty has been given a score and rank. The score is the aggregate of the score of each Alumni who has taken a course of the Faculty. Alumni Record specific to a Faculty Member can be searched. It will fetch you the details of Alumina's who has taken courses under that particular faculty**.**