

University Performance Measurement System

Group Members-

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Problem Definition:

University Positioning is one of the major factors which determines the performance of Universities. They face universal competition which mandates them to emphasize on managing and measuring the quality of education provided. They should consider the design of course offered by a department with the existing job opportunities. For a student, it is very crucial to identify the course that is relevant to their field of interest and also aligns with the industry standards. On the same note, even the university requires to identify a method to quantify its performance enabling to devise strategies to tackle their reputation. To address these issues, we aim to develop an application that imparts a strong apprehension of University system to assist them towards their goal of quality education for all.

Problem Solution:

The application will allow students to have a summary of the courses well in advance so that they can devise a plan to select specific courses in a semester. They can also view the rating for each course developed based on feedback from industry experts and fellow students. The application will allow professors to suggest improvements to the course structure and content which will assist the university to make calculated revisions. The rating for a course will be determined by allotting weightage to influencing elements. These weightages can be modified by the university admin when required. Students, faculty can perform basic add/drop operations. The admin will have high level access to modify, set up a dashboard to compare performances and envision a guideline for ranking.

User Interface with the Application:

There are different login prompts for Admin, Student and Faculty.

- ✓ **Admin** – Can perform multiple activities such as adding, updating and deleting courses, student and faculty profiles. They also have access to view dashboard which provides a list of students and the attributes to compare performance. There are a few pre-defined functions to **generate chart** to provide success rate of college based on student employment status.
- ✓ **Faculty** – Can view the list of students assigned to them, post course related information such as Syllabus and Assignments. They also have the option to grade the submitted assignments.
- ✓ **Student** – Can view courses taken in a semester, corresponding assignments and their grades.

Course ranking structure:

- ✓ **Success Rate/Ranking of College-** This will calculate the ranking of college in university based on the students who are employed. This is done by calculating percentage of students employed to total number of students.

Success Rate/Ranking of College= Students Employed in college*100/Total Number of students in college

- ✓ **Job Performance(Rating) vs Academic Units(GPA)-** This will show the rating given to employee who is alumni of the university of a particular college and calculate the average gpa for that rating to show average gpa of a particular rating by which we can conclude that how is job performance related to gpa.
- ✓ **University Employment Status-** This will show how many people in the university are employed and not employed.
- ✓ **Course Ranking Depending Upon Job Performance-** Course wise average rating of student can be shown so that we get the course ranking and find which course is good and according to industrial trend.

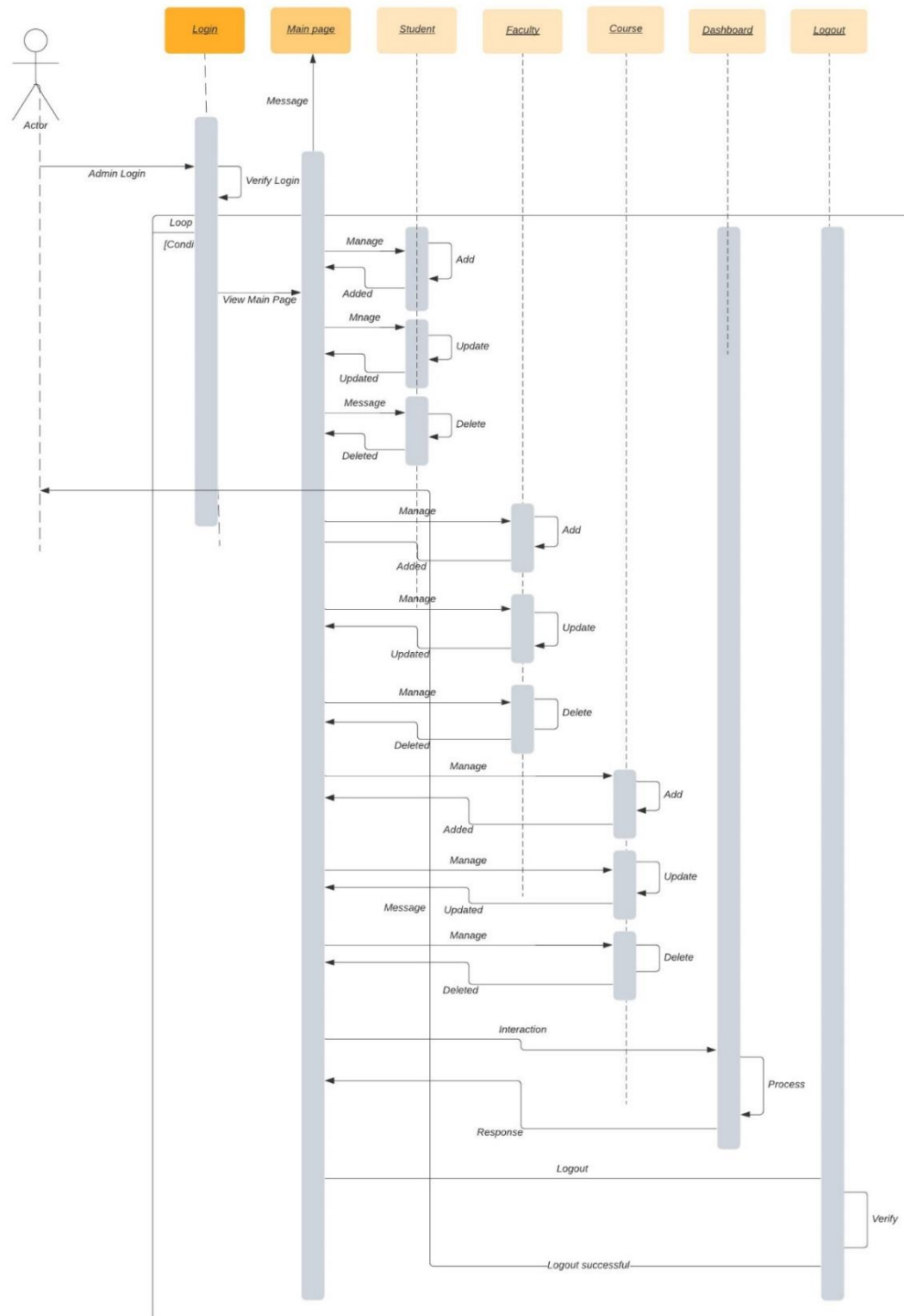
Y-> Course Ranking = Rating of student in particular subject/total number of student who have take the course

X-> Course Name

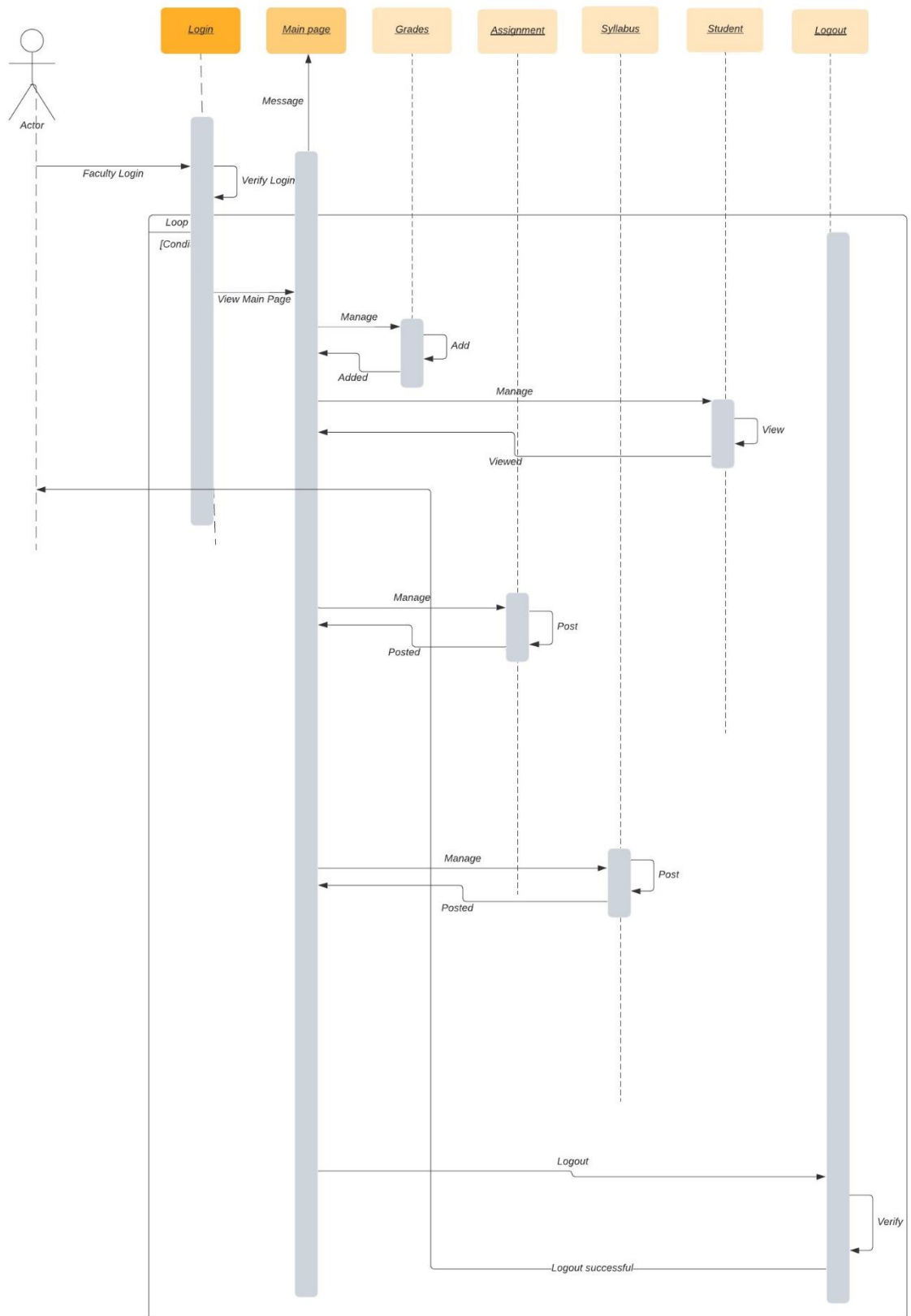
Sequence diagram:

This provides a visual representation on how to navigate through our application.

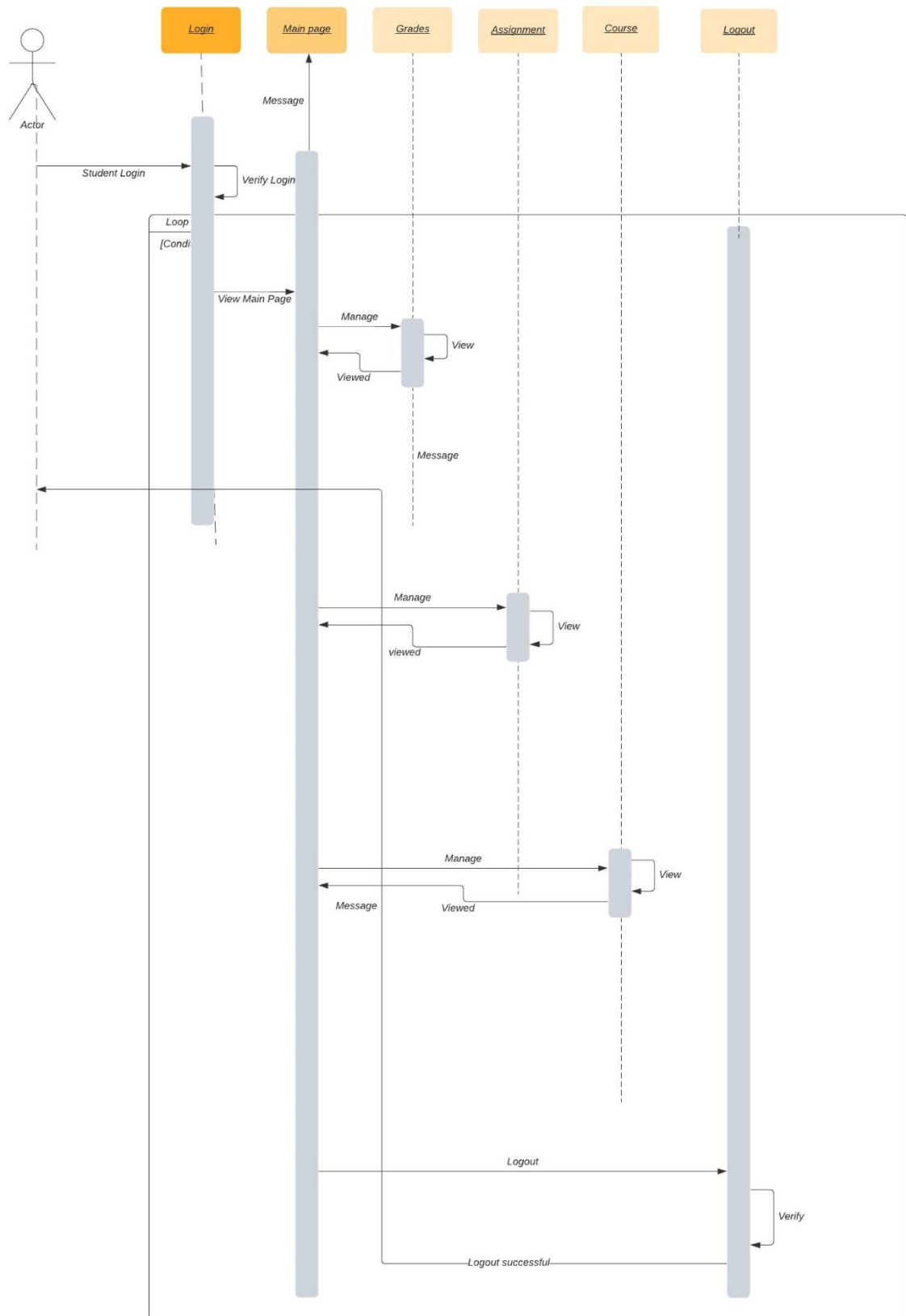
For Admin:



For Faculty:

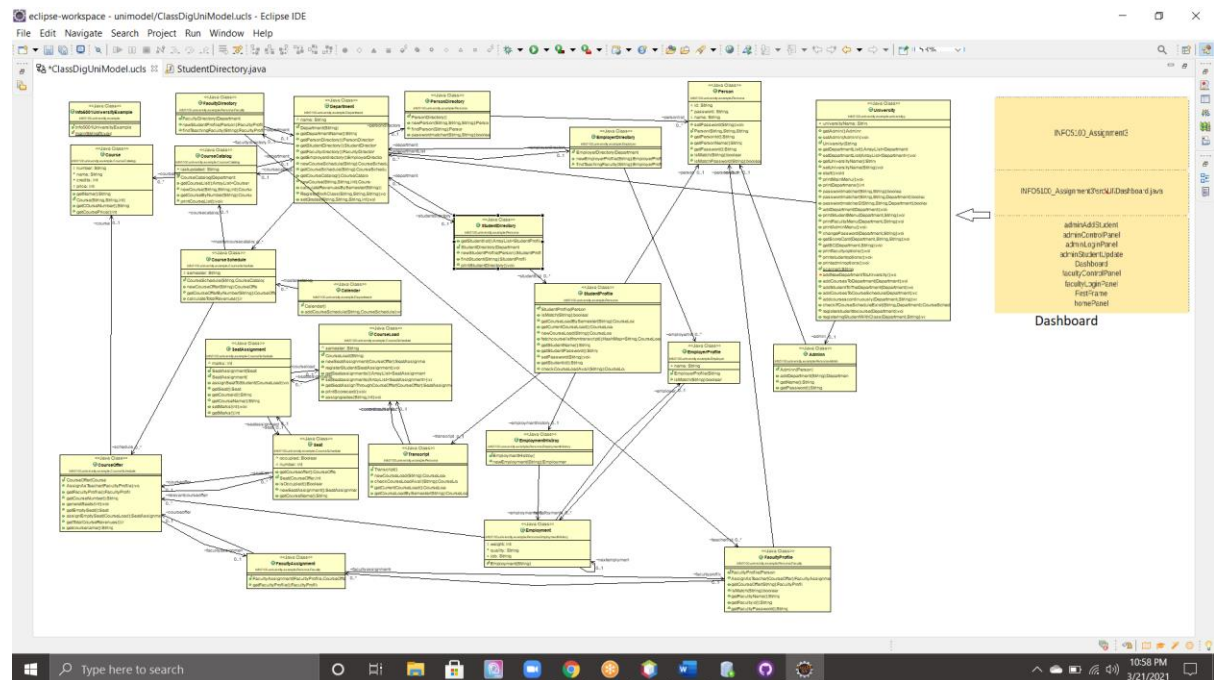


For Student:



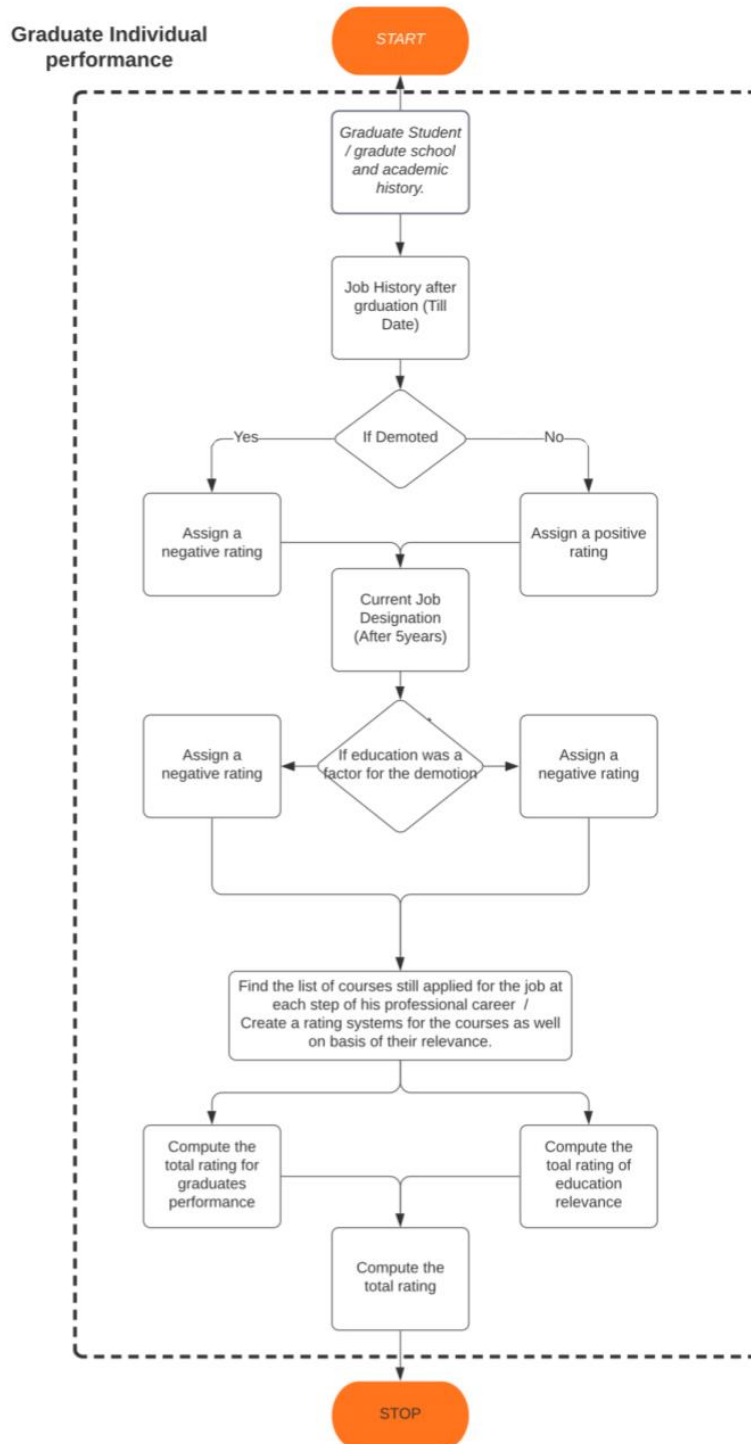
UML class diagram:

Class diagram with extended functionality showing ranking system and complete university model.



Flow-Chart:

Flow chart to create digital education systems assuming a university is an intermediary (broker) between students and employers.



Screenshots of UI and Dashboard:

