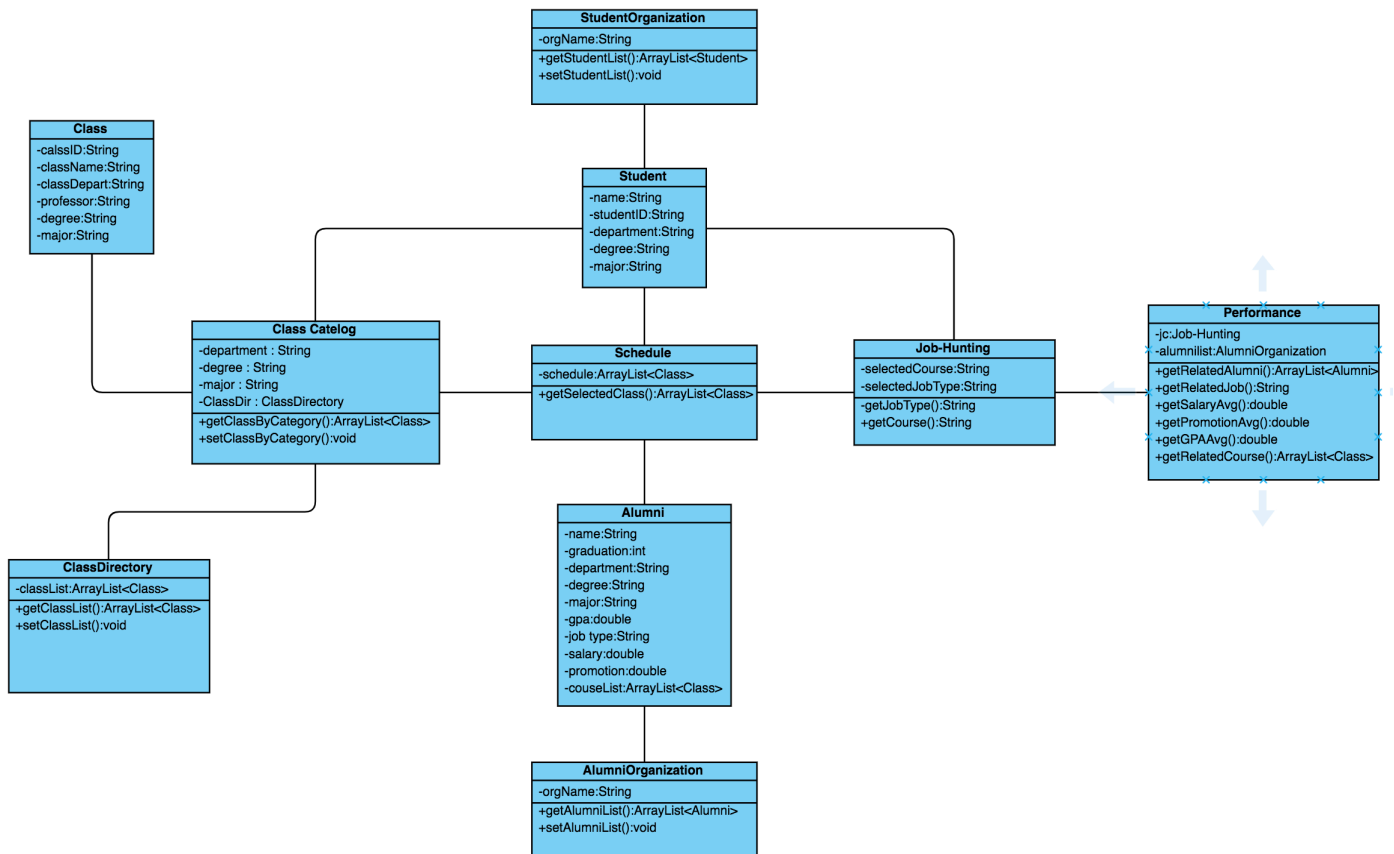# Class Review System - Object Model, Sequence Diagram

Purpose

This purpose of this application is to help students evaluate the value of classes based on their career path. In this system, alumnis who graduate from same school will be offered to feedback the classes to students who want to take the classes. The evaluation is categorized with jobs and positions. Class information of alumnis including classes schedule and gpa will be taken as a reference to students.
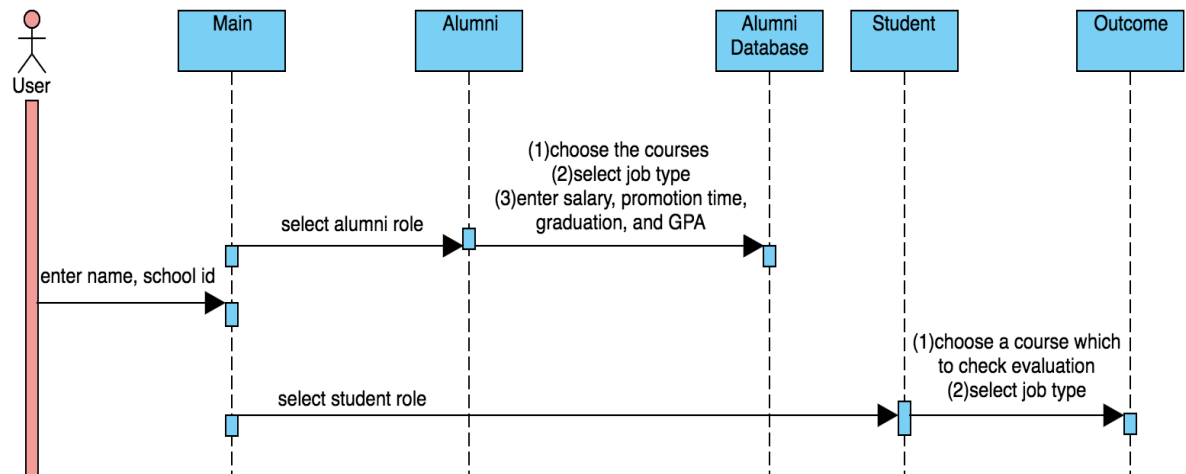
Details and Process

Student users target and pick up one classes from the system according to their major. Then they need to choose their career preferences from the list we provided which collect the job data of alumnis. Salary and promotions will be displayed statistically. This represent the value career wise of the specific class that has been chosen by student.

Object Model

StudentOrganization
-orgName:String
+getStudentList():ArrayList<Student>
+setStudentList():void

Class
-calssID:String
-className:String
-classDepart:String
-professor:String
-degree:String
-major:String

Student
-name:String
-studentID:String
-department:String
-degree:String
-major:String

Performance
-jc:Job-Hunting
-alumnilist:AlumniOrganization
+getRelatedAlumni():ArrayList<Alumni>
+getRelatedJob():String
+getSalaryAvg():double
+getPromotionAvg():double
+getGPAAvg():double
+getRelatedCourse():ArrayList<Class>

Class Catelog
-department : String
-degree : String
-major : String
-ClassDir : ClassDirectory
+getClassByCategory():ArrayList<Class>
+setClassByCategory():void

Schedule
-schedule:ArrayList<Class>
+getSelectedClass():ArrayList<Class>

Job-Hunting
-selectedCourse:String
-selectedJobType:String
-getJobType():String
+getCourse():String

ClassDirectory
-classList:ArrayList<Class>
+getClassList():ArrayList<Class>
+setClassList():void

Alumni
-name:String
-graduation:int
-department:String
-degree:String
-major:String
-gpa:double
-job type:String
-salary:double
-promotion:double
-couseList:ArrayList<Class>

AlumniOrganization
-orgName:String
+getAlumniList():ArrayList<Alumni>
+setAlumniList():void

Sequence diagram

User — Main — Alumni — Alumni Database — Student — Outcome

(1)choose the courses
(2)select job type
(3)enter salary, promotion time, graduation, and GPA

select alumni role

enter name, school id

(1)choose a course which to check evaluation
(2)select job type

select student role

User experience

Student:

1. Select the department, degree and major

2. Enter name and id

3. Choose one of the courses which they want to understand the outcome

4. Choose job category

5. Show the statistic table.

   • How many people had the same course

   • Contributions to the job performance evaluated by salary and promotions.

   • Receive GPA attribute and its influence on the performance of certain job

Alumni:

1. Select department, degree, major

2. Enter name and id

3. Choose the courses they took

4. Insert salary, number of promotion, graduation date, GPA, job category

Class Detail

   • ClassCatalog.java: Department, Major, Degree Database.

   • ClassDirectory.java: Class database

   • Schedule.java: Curriculum database.

   • StudentOrganization.java: Student information database

   • AlumniOrganization.java: Alumni database

- Job-Hunting.java: Functions to filter job and class targeted by user

- Performance.java: Final evaluation

  (1)Get related alumni who have chosen the same course, in same job type area. Calculation on number of alumni, display the number.

  (2)Get salary, promotion and GPA average calculated from all related alumnis. Display in a statistic graph.

  (3)Provide related class ranking based on job chosen as a suggestion.