PROJECT

Class: CS425 - Database Design and Applications

Project: Interactive Students/Faculties Networking

Team member: Danna Liu (A20345502)
Shanshan Jiang (A20354599)
Zhizheng Li (A20351352)

PART I System Architecture

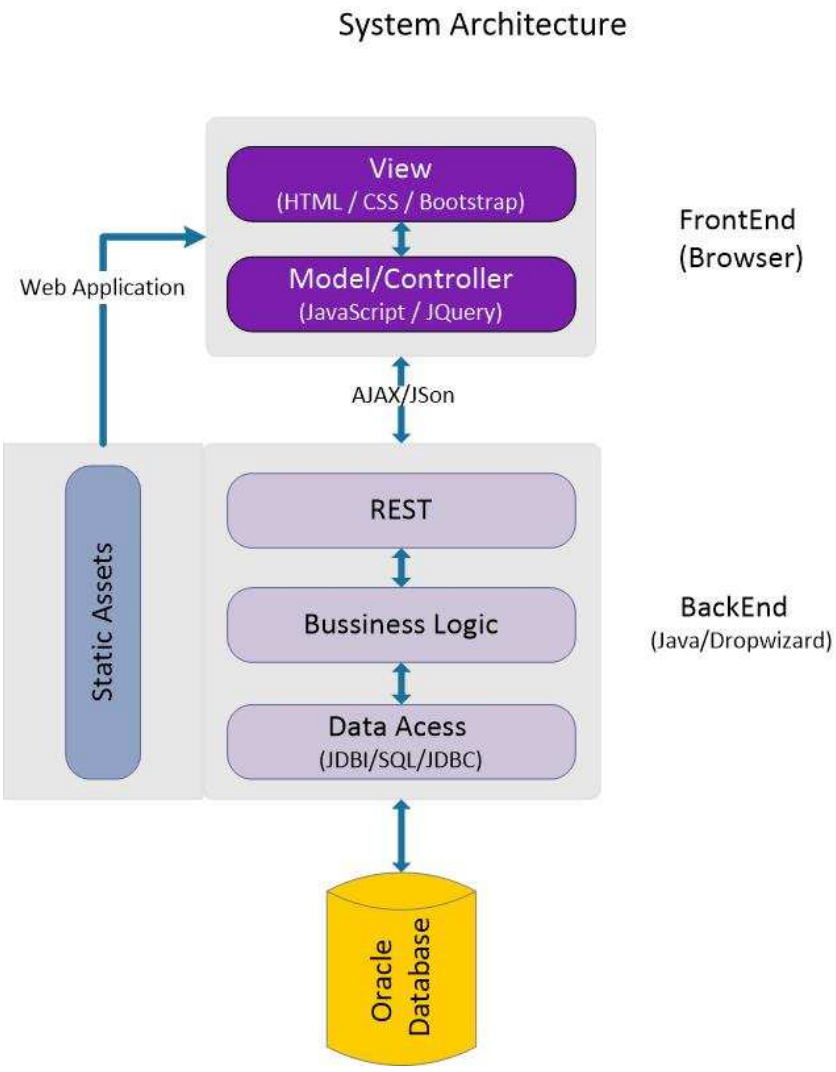
PART II User Case

PART III The specified feature ownership

PART III Specific contributions

Part I

The following graph is the **System Architecture** for class project. It would help you to understand how the whole process works and it also indicates the languages and the frameworks we are going to use.



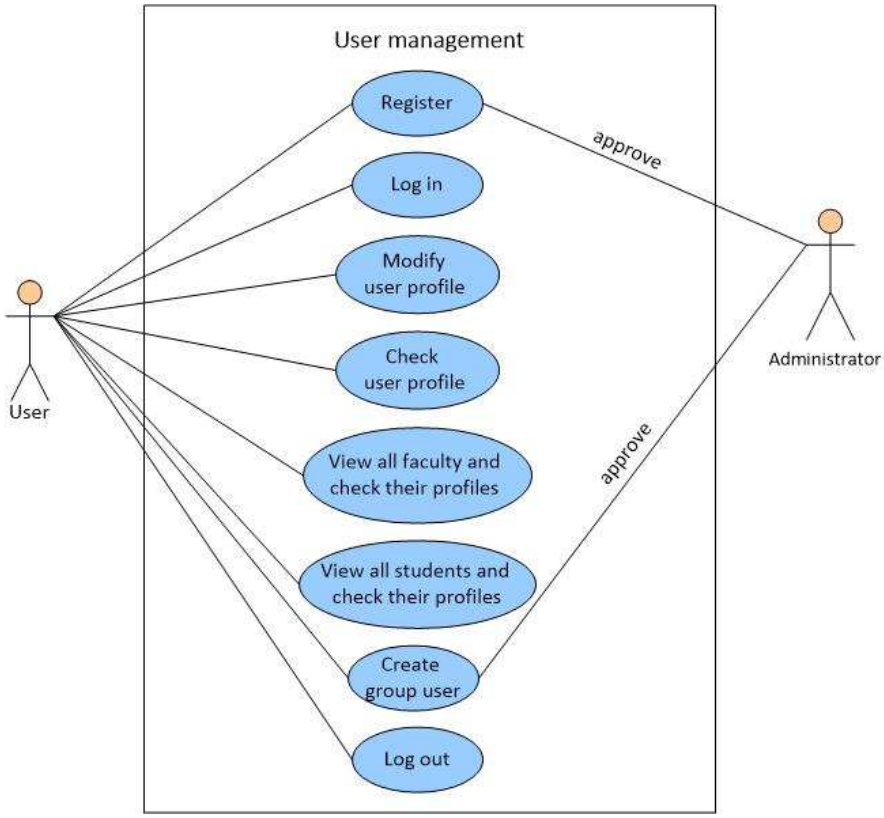
The main language we user is **JAVA**, **HTML, CSS, JavaScript, JQuery or Bootstrap**, the framework we use is **Dropwizard**.

Part II

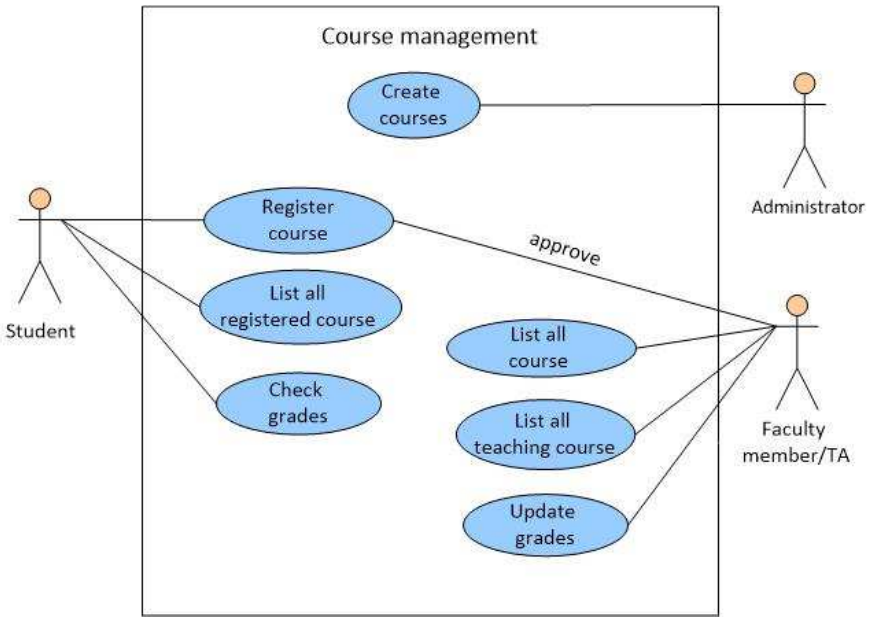
The specified feature ownership among team members

To identify and organize system requirements, the class project *Interactive Students/Faculties Networking system* has been divided into three large parts – **user management, course management, and discussion group management**, as following:

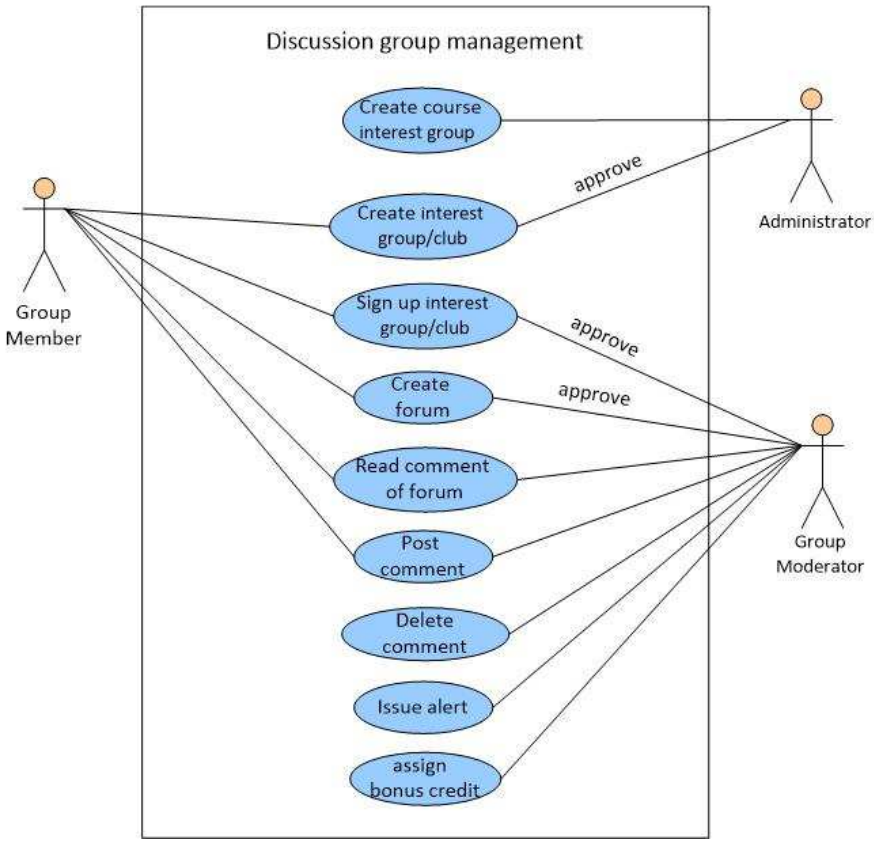
1. **User management**



2. Course management



3. Discussion group management



PART III

Feature ownership among group member is allocated according to user case diagram above

Feature ownership form

	User management	**Course management**	**Discussion group management**
Danna Liu	√		
Shanshan Jiang		√	
Zhizheng Li			√

The detail of role playing in the project:

Insert, update and delete:

	User/Faculty/Student/ researchProjects/internships/ GroupUsers	**Courses/Take/TAs**	**InterestGroupsClubs/ /Comments/ DiscussionForums/Alerts**
Danna Liu	√		
Shanshan Jiang		√	
Zhizheng Li			√

	Authorization and privileges	**General processes**	**Queries**
Danna Liu	1	1	2,5
Shanshan Jiang	2,3	3	3,4
Zhizheng Li		2,4,5	1,6

PART IIII

Danna Liu

- Implement the insert, update and delete of user, faculty, student and group user.
- Show that the students can hide or make public selected information or all information in her profile.
- Demonstrate the process of register into an interest group.
- Display the 5 most recently entered discussions/comments from all the interest group/club/course that a student has registered to.
- Display the list of all moderators, the group/club/course that they moderate and are members of.

Shanshan Jiang

- Implement the insert, update and delete of courses, take, TAs.
- Show that a student who is not the TA of the course cannot be assigned to become the moderator of a course.
- Show that only the site wide moderator can assign moderators to an interest group/club/course.
- Demonstrate the process of assigning a TA to a course and the assignment will fail if the person is also a student of the course.
- Display the past average GPA of all the courses taught by a faculty.
- Display the courses with the highest and lowest average GPA by a faculty and by all faculties.

Zhizheng Li

- Implement the insert, update and delete of group, forum, and comments.
- Demonstrate the process of posting comments and discussions. The process will check that the posting will fail if the user is not registered to the course or group and the course or group moderators will be alerted.
- Demonstrate the process of opening a discussion forum for an interest group.
- Demonstrate the process of modifying and filtering messages.
- Display the 5 most recently discussions/comments from a specific interest group/club/course.
- Find the most commented on group/club/course.