COMP 3716

ASSIGNMENT #1

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Use Case 1

Name: Initialize class list

Description: Instructor get the information and decide the group size. Initialize all necessary information include prerequisite courses, students self-evaluation list, and System gets the grades from university database

Primary Actor: Instructor

Preconditions: All students in class has been in a list and store in the system

The instructor is registered at the university and the course is being offered on the current

Post conditions: The group size has been decided

Main Path:

1. Instructor login in the system — Should be part of the preconditions

2. Instructor create a new project for current class.

3. System show a question to ask the group size of this project.

4. Instructor inputs the group size of this project.
   4.1 If the group size equal to class size, system show an error and let user re-enter an smaller size.

5. System show a question to ask the prerequisite courses of this project

6. Instructor inputs the prerequisite courses of this project.

7. System gets the prerequisite courses grades of all students from university database system then make a grade list for each student.

   The group should be created with the course students, not with all the students that fulfill the prerequisites on all the university.

8. System show a question to ask the instructor what the skill needed in this project and how many levels in the students self-evaluation.

9. Instructor write down the skill name and the total levels for each skill.

10. System make a self-evaluation list for students base on Instructor's choice.

    The students on the list need to be notified. So, they can access to register their information

11. System record all the information above.

    The instructor needs to define a deadline. The students should register the information before it.

12. Instructor logout

Extension:

1.1 If wrong login ID or Password, login failed

Use Case 2

Name: Input Students Information

Description: Student provides system all the information of themselves, include prefer and non-prefer partner list, personal schedule, self-evaluation list

Primary Actor: Student

Preconditions: The group size has been decided.

The student is registered on the university and the group list. The deadline has not passed yet.

Post conditions: All the information of students have been collected.

Main Path:

1. Student login the system   Should be part of the preconditions

2. System show a list include all students name of class.

3. Student write names from list, choose the partners who want to work together

    3.1 Student leaves it blank
    3.2 System get a record: this student can group with any people

4. Student write names from list, choose the partners who do not want to work together

    4.1 Student leaves it blank
    4.2 System get a record: this student can group with any people

5. Student write their proficiency level in self-evaluation list.

    5.2 Student re-enter the level number

    Do not worry about data validation at this point

    5.1 If student write a number less than 1 or greater than instructor's max level, system require student re-enter the level number.

6. Student puts in the time period in which he/she can't attend the meeting.

    6.1 Student leaves it blank.

    6.2 System get a record: this student can attend the meeting at any time except course schedule.

7. System record all the information above.

8. Student logout.

Extension:

1.1 If wrong login ID or Password, login failed

1.2 Show the login page again for student

3.1.1 Student writes wrong names (it doesn't exist in the class name list).

3.1.2 System require student re-enter a correct name in the list.

5.1.1 Student writes wrong names (it doesn't exist in the class name list).

5.1.2 System require student re-enter a correct name in the list.

Use Case 3

Name: Finalize group

Description: System assigns some students into groups by their schedules, instructor assigns the rest of them based on their preferred partner list, self-evaluation and grades.

Primary Actor: Instructor

Preconditions: System has stored students' schedule, preferred partner list, self-evaluation and grades.

> The deadline defined has passed

Post conditions: Every student has been appropriately assigned into groups.

Main Path:

1 Instructor login in the system | Should be part of the preconditions |

2 Instructor input a command make system to group.

3 System groups the students by their schedules.

4 System shows instructor the students in each group automatically.

5 System shows instructor all the students' grades.

6 System shows instructor all the students' self-evaluation.

> An alternate path is required to deal with the situation of not possible group assignment due to preferences conflicts.

7 System shows instructor all the students' preferred partner list.

8 Instructor removes some specific students from some groups.

9   Instructor adds some specific students into some groups.

group size, system ask instructor confirm this group number.

9.2 Instructor input to confirm this group.

9.2. 1 Instructor reset this group.

9.1 If the number of one group have more or less people than

10 System show a final group list for user and show a message ask to confirm the new group list

11 Instructor confirm the new group list

12 System record all the information above.

13 Instructor logout

> Are the students notified after the group list is generated? What is the system going to make with this information?

Extension:

1.1 If wrong login ID or Password, login failed

1.2 Show the login page again for Instructor