



REQUIREMENTS DOCUMENT FOR PEER GRADING SYSTEM

Use Cases and User stories

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Requirements:

1. Students should only be able to view and submit grades for themselves. Students must log in to a system to verify their system before use. While students can REVISE their evaluation, they should not be allowed to submit multiple sets of evaluations.

When a user inputs his UBIT credentials, based on the user's role i.e. Student/instructor the user is able to login and verify the system before use. If the user is a student, the system ensures that the user is able to submit grades for themselves and the system allows multiple submissions but not multiple sets of evaluations.

2. Students often write a teammate's nickname or misspell a teammate's name. This makes it difficult to combine the results to generate the team score. To simplify the results, your system will need to read a list of the team member names that it automatically fills in to the survey. Saved results should similarly be associated with those formal names.

In order to avoid misspellings, the system picks up the names of the teammates based on their group and populates a drop-down menu with their names. The students then pick the teammate he wants to grade from the menu.

3. While the scores are numeric, there is no guarantee that students agree on the standards for each score. Training students on standards would be difficult, so submission are normalized, instead. Normalizing scores first requires calculate the total of the all the scores entered by the student. Each score in the evaluation is then stored as the percentage of that total that it equals. So if all the scores totalled 50, a score of 0 remains a 0, a score of 1 is normalized to 0.02 ($1 / 50$), a score of 2 would be stored as 0.04 ($2 / 50$), and a score of 5 becomes 0.1 ($5 / 10$).

Once all the scores have been entered and the deadline for entering the scores has passed, the system calculates the total points possible and normalizes these scores.

4. Teams must accept a strict budget of \$0 for this project. This should not prevent students from using software they already own or any free or open source software and libraries. Any use of outside resources MUST be clearly documented and be in keeping with the University at Buffalo's Intellectual Integrity Policy. In keeping with the 0\$ budget, UML diagrams have been constructed with the DIA which is a free open source tool.

Use case:

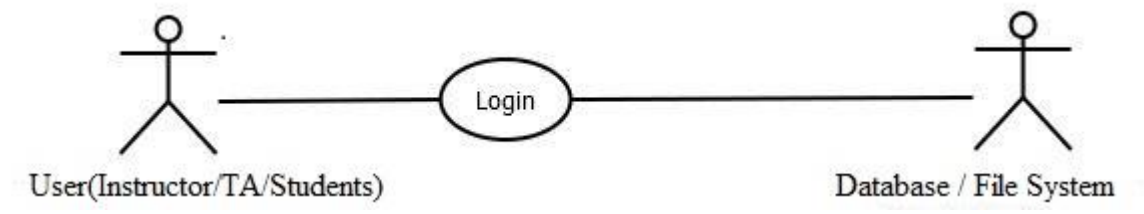


Fig 1.1.: UML Diagram for Login

Actor	Users
Outline:	Use case for the login functionality
Goal:	Users can make a successful login attempt to use the system
Users:	Instructor, TA, Student, Database/file system
Rationale:	User needs to login to the system to verify his credentials before use.
Completeness:	<ul style="list-style-type: none">• The login will be triggered after hitting the login URL• The use case will end on opening the user's dashboard
Precondition:	None
Postconditions:	Successful login will assign a role to the user
Course of events:	User will be able to login, log out and reset password
Alternative path:	If the user forgets his password, he has to verify his identity before he can reset his password.

Table 1.1. Use Case for Login

User stories:

Student:

- As a student, I want to assign grades to all my teammates so that I may evaluate their work.
- As a student, I want to revise the grades I had assigned to my teammates so that I may change my evaluation of someone's work if necessary.
- As a student if I feel that I have been graded unfairly, I want to submit a request to the instructor to revise my grades so that I may be graded fairly based on the work I did.
- As a student, if I feel that I have been graded unfairly, I want to upload documents so that I may support my claim regarding my work.

Instructor:

- As an Instructor, I want to view the regrading requests and supporting documents of certain students in case they challenge their grades so that I may allocate grades fairly.

TA:

- As a TA, I want to see the normalized scores for every student so that I may aggregate their grades easily.
- As a TA, I want to be able to map a student's nickname with the university registered name so that I may avoid confusion during student identification.