Easy submission and collection of assignments

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Assignment two – Requirements Analysis

Requirements Analysis

Each user has certain activities they can perform. These activities are followed up by certain constraints and relevant data that are within the system.

Professors

**Activities** – Creating a class page where anyone, students or staff, can view any relevant class information or assignments. Creating sections and adding students and TAs to the sections. On the sections page, professors, TAs, and students can utilize a discussion board. The professor can also assign work to these sections, so students can work as a team or section to complete this group work. Creating assignments on the class page for students to view assignment instructions and requirement. These assignments can be viewed and graded by professors. Professors can also give feedback on the work in the form of comments on the assignment page.

**Relevant data/Constraints** – Everything on the class page will need to be uploaded to a database/server to use that in a website UI. Each student in the database will have an attribute for sections. When the section number is assigned by the professor it will be saved in the database and that will give access to the student or TA to see the section. The discussion board will also need to have all entries saved in a database, so anyone can see these comments and questions at any point during the semester. Each student will have to have a unique name or identifier (PawPrint). The assignments will have to be stored in a database, and the professor can upload these to the website through the database. Each assignment must have its own unique name and will also have a completed attribute. As students submit their work, the professor can see the assignments that have been completed by certain students. These assignments can also be stored with a section number attribute that will assign them to sections if it is a group project. Grades will need to be saved in a secure place but will be able to be seen by the professor and/or TA that assigned the grade. It will also need to be able to be viewed by the student it is for.

TAs

**Activities** – TAs can also add students to a section, add assignments, comment on or grade these assignments, and answer question or help students in the discussion board in the sections page. All of this is to assist the professor and allow for the TAs and the professor to work together and easily collect and grade assignments, and also assist students in anything they might need.

**Relevant data/Constraints** – Working alongside the professor, section numbers can be attached to students to assign them sections that will be saved in a database. The comments left on the discussion board will need to be saved in this database as well along with the name of the TA that commented. TAs can upload assignments and see when these assignments are completed. Each assignment must have a unique name. Grades that TAs give must be secured and not be seen by anyone other than the professor and the student it is assigned to.

Students

**Activities** – Students can view the class page to see all relevant information and upcoming assignments. They can comment and talk to their sections using the discussion board for any group assignments or questions about anything in the class. They can click on assignments and submit work. After a TA or professor grades this assignment, students can see their grade and any comments left by the teachers.

**Relevant data/Constraints** – All comments on the discussion board will be saved along with the student name that wrote it. The student name must be unique or have a unique identifier (PawPrint). All submitted assignments will be stored, so students can go back and reference these throughout the course. Students can view only their own grades that are assigned to them based on their name.

Upper CS department faculty and staff

**Activities** – Any faculty and staff can view the class page to make sure the professor has provided substantial information about the course and to make sure the professor is following the correct curriculum. Assignments can also be viewed in case there are any issues that the professor finds that need to be reviewed. For example, a student copies another student’s work, and faculty must review the case for cheating and take appropriate actions against any students.

**Relevant data/Constraints** – Faculty and staff can view the class page’s UI based on the classes name. All classes must have a unique name. They can also view a student’s grade, comments, and assignments based on the name of that student.

System requirements

A large and secure database will be needed to store assignments, grades, and messages. An organized UI will need to be created in order for students and staff to have an easy time navigating to and from the assignments page, class page, and sections page. An easy and fun discussion board, so students feel that they are encouraged to use this tool for anything in the class.