

Assignment 3: Requirements Analysis

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System Users:

The users would be the students, teachers and the TAs.

User Activities:

Students:

- Submit an assignment to their courses

Data Entity: Assignment

Attributes: Submission, assignment name, course number, section number

Constraint: Can only have one submission saved for each assignment(multiple files can be in one submission)
Can't submit after assignment is locked

- View the assignment submission and have the ability to edit, delete, or reupload the assignment if needed.

Data Entity: Assignment

Attributes: Assignment, assignment name, course number, section number

Constraint: Can't make changes after assignment is locked

- View grades and feedback

Data Entity: Student, Assignment

Attributes: Assignment Grade, comments, assignment name, Student Name

Constraint: Only one grade per assignment

- Contact teacher or TA

Data Entity: Student, Teacher, TA

Attributes: Section, Course, Student name, TA name, Teacher name

- Student Login

Data Entity: Student

Attributes: User ID, Password

Constraint: Unique user ID

Teachers:

- View, create and manage assignments for each section such as editing due dates, and changing assignment descriptions/requirements.

Data Entity: Teacher, Assignment

Attributes: Section ID, Course ID, Assignment Name

Constraint: Assignment must have name and due date.

- View and manage course sections. Should be able to view the students enrolled in the course and manage any information put out to those sections.

Data Entity: Teacher, Students, Course

Attribute: Course ID, Section ID, Student names, Course info

Constraint: Sections and courses must be unique.

- View TAs assigned to their courses and send them notifications or messages.

Data Entity: Teacher, TA

Attributes: Course ID, Section ID, TA name

- Ability to view assignments and assign grades to students for their work.

Data Entity: Teacher, Student, Assignments

Attribute: Assignment name, Grade, Student name, Section, Course ID

Constraint: Grade must be posted and can only receive one grade per assignment.

- Teacher Login

Data Entity: Teacher

Attributes: User ID, Password

Constraint: Unique user ID

TA:

- View assignment submissions and post grades

Data Entity: TA, Assignment

Attributes: Course ID, Section ID, Assignment name, assignment grade, assignment submission

Constraint: Submissions can only receive one grade.

- Post comments to the student concerning their assignment.

Data Entity: TA, Student

Attribute: Assignment name, Student name, Course ID, Section ID

- Send notifications or messages to the teacher they are assigned to.

Data Entity: TA, Teacher

Attribute: Course ID, Section ID, Teacher name, TA name

- Post notifications to the section they are in and be able to delete or edit it.

Data Entity: Course

Attribute: Course ID, Section ID

- TA Login

Data Entity: TA

Attribute: User ID, Password

Constraint: Unique user ID

System Constraints:

- An up-to-date computer with mouse and keyboard.
- The system should be able to work with any operating system.
- Internet connection will be required to access site.