

Assignment 3

Requirements Analysis

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1. Types of users:

- a. TA
- b. Student
- c. Instructor

2. User Requirements:

a. TA:

- i. User shall be able to collect and view assignments
- ii. User shall be able to assign grades to assignments
- iii. User shall be able to add comments to assignments

b. Student:

- i. User shall be able to submit programming assignments
- ii. User shall be able to view grades received on assignments
- iii. User shall be able to view and respond to comments left on assignments

c. Instructor:

- i. User shall be able to select which section to manage
- ii. User shall be able to view and manage all TAs and students in a section
- iii. User shall be able view and edit grades given by TAs
- iv. User shall be able to create new assignments
- v. User shall be able to view submitted assignments

3. Relevant Data and Constraints:

a. TA:

- i. Assignment entity with due date, grade, date assigned, submission type, and contents of submission attributes
- ii. Assignment entity with due date, date assigned, contents of submission, and grade attributes
- iii. Assignment entity with contents of submission, and comments attributes

b. Student:

- i. Assignment entity with due date, submission type, date assigned, and file submission attributes
- ii. Assignment entity with due date, grade, date assigned, submission type, and contents of submission attributes
- iii. Assignment entity with contents of submission, due date, grade, and comments attributes

c. Instructor:

- i. Section entity with students, TAs, and assignments attributes
- ii. Section entity with students and TAs attributes
- iii. Assignment entity with due date, date assigned, grade, and contents of submission attributes
- iv. Assignment entity with due date, grade, date assigned, and submission type attributes
- v. Assignment entity with due date, date assigned, grade, and contents of submission attributes

4. System Constraints and Requirements:

- a. Webserver with large amount of storage and support for many concurrent users
- b. Database to store users and relevant information