

Assignment 4: Design Focus

Architecture and System Design Process

Andrew Cox

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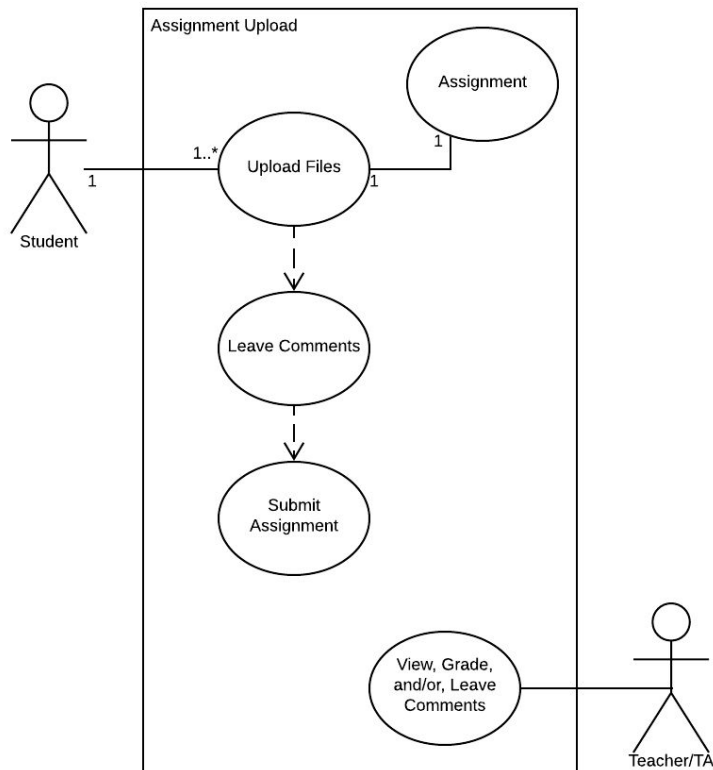
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Use Case

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Use Case 1 : Submit Assignment

Primary Actor: Student

Success Guarantee:

Confirmation Screen

Student Ability to Review Own Submissions

Preconditions:

Student is in Class

Assignment exists

Assignment expects file upload

File matches expected file type

Success Scenario:

1.Student views assignment and creates submission

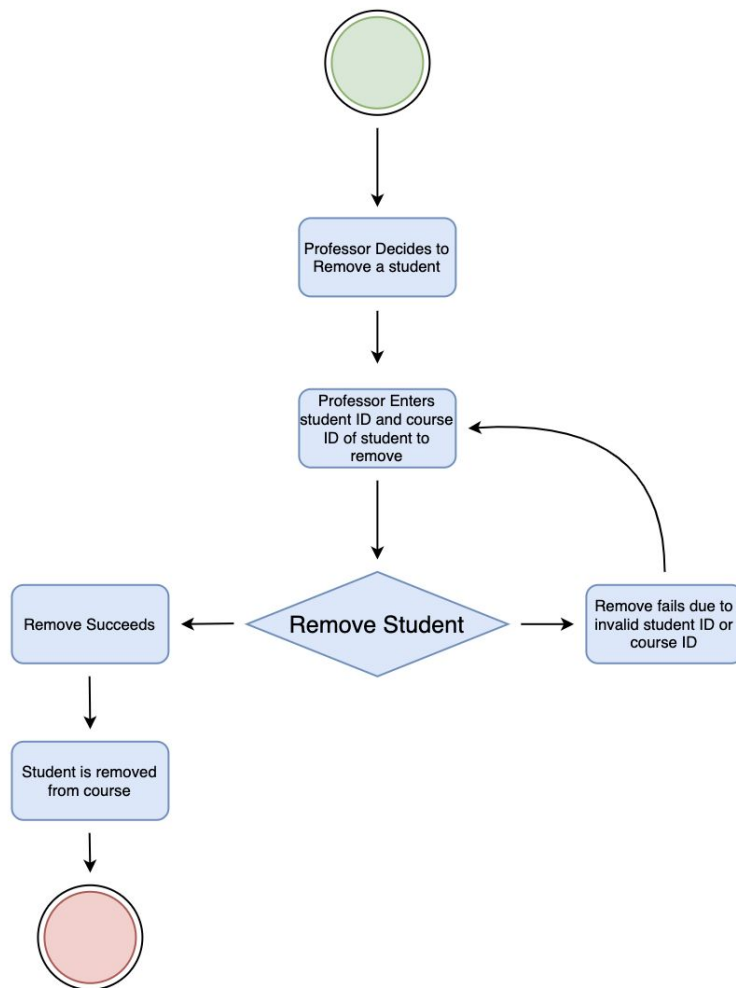
- 2.Student clicks upload button and selects applicable file(s)
- 3.Student is Given Opportunity to Leave Comments
- 4.Student Clicks Submit
- 5.Student is Presented with success screen
- 6.Student is given ability to download their own submissions or overwrite prior submissions

Failed End Conditions:

Wrong File Type : Student will get an error message on submit button click instead of success screen

Activity Diagram - Remove student

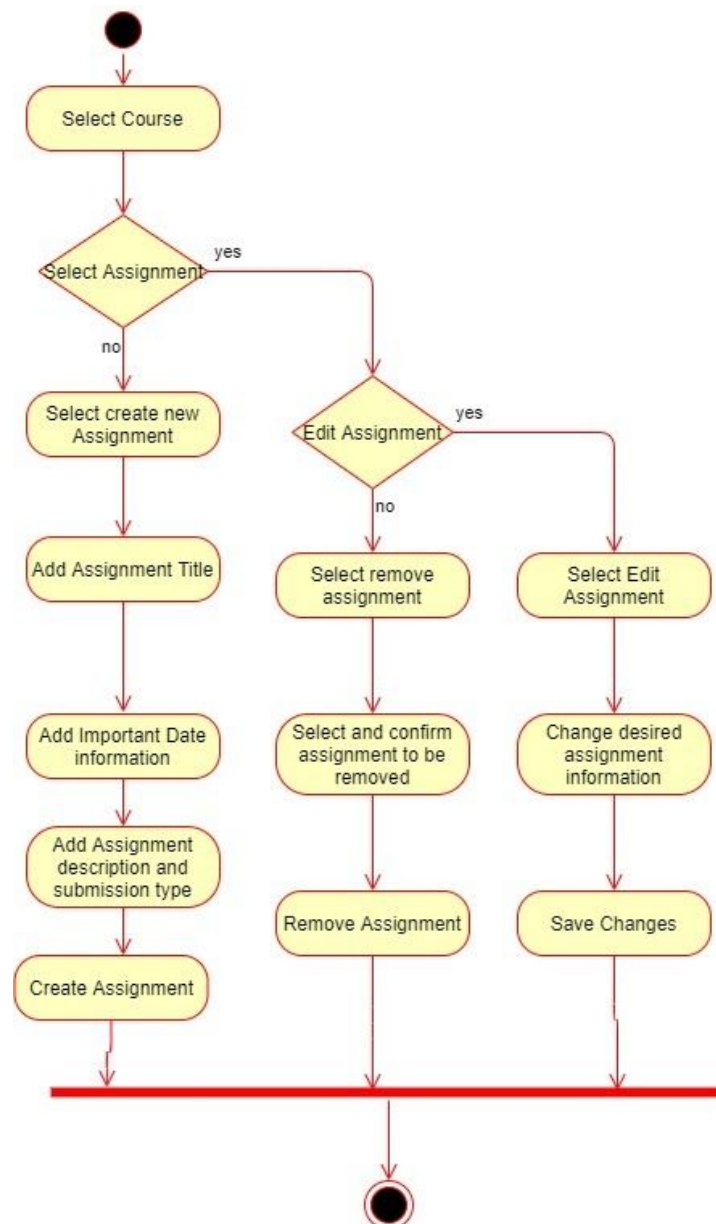
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A professor removes a student from a course. The removal will succeed as long as the courseID is a course taught by the professor, and the studentID is a student in the course.

Activity Diagram - Instructor Add/Remove/Edit Assignment

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Activity Diagram

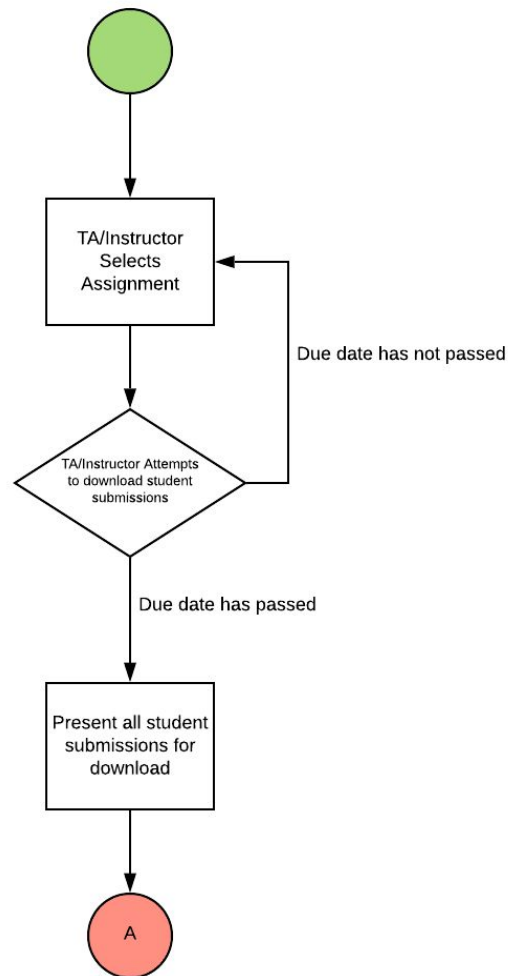
Instructor

Add/Remove/Edit Assignments

The Instructor chooses the course, and can then choose to create an assignment or select an assignment to modify. If the Instructor chooses to create an assignment they enter in the assignment details and create it. The Instructor can choose to edit or remove the selected assignment.

Activity Diagram - TA/Instructor Downloads Student Submissions

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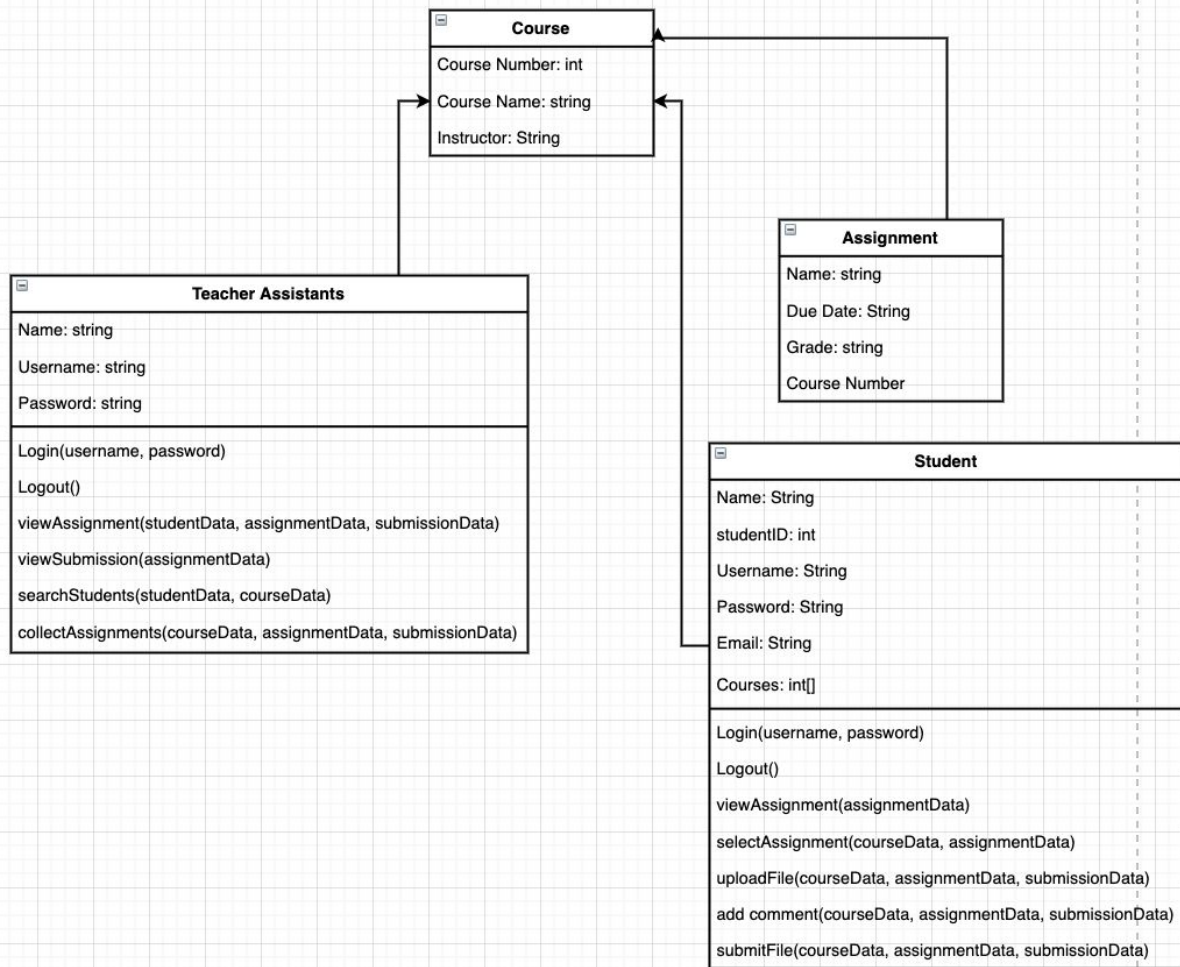


TA can collect assignments by downloading students' submission files

Class Diagram

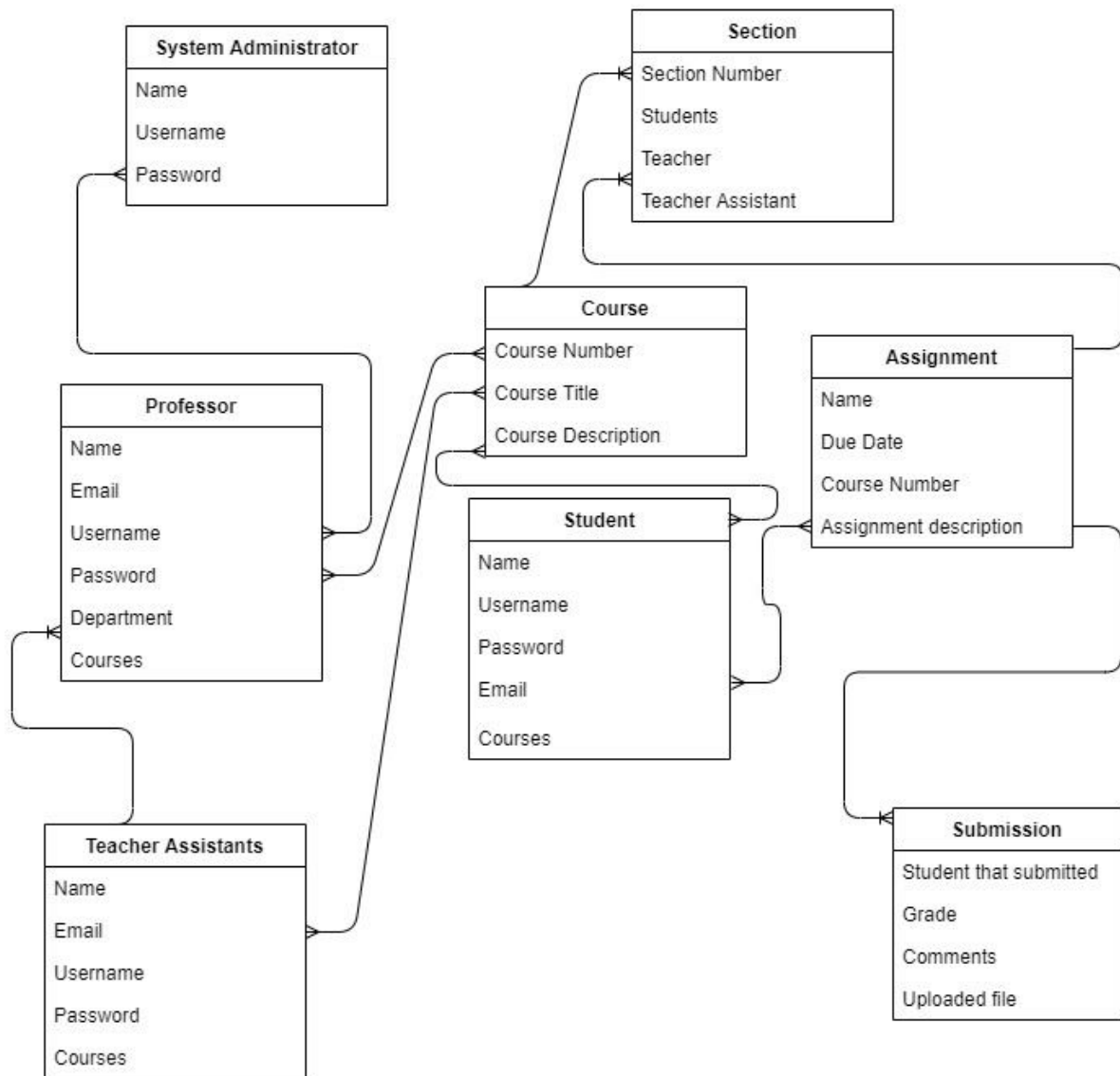
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Entity Relationship Diagram

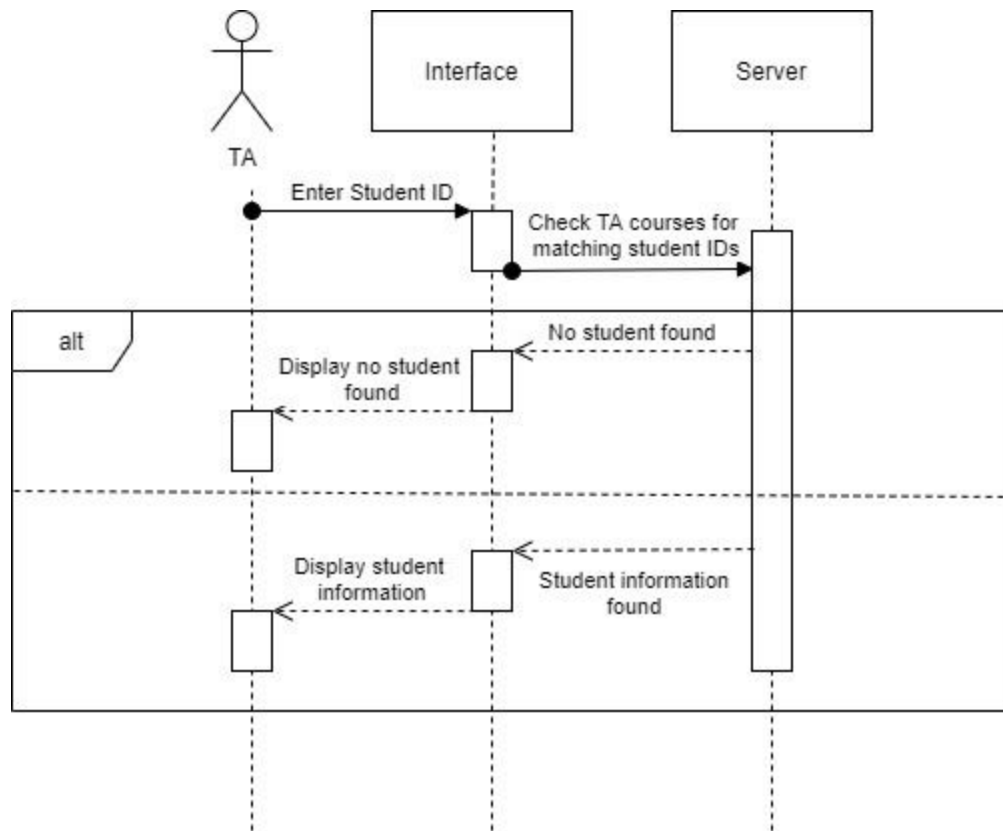
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Entity Relationship Diagram for Student Submissions System

Sequence Diagram

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Sequence Diagram

TA

Search for a student

The TA enters the student ID of a desired student, the server checks the students in the TA's courses and sends the results to the interface.

State Machine Diagram

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Lifecycle of an assignment

