



Design Group 3

# ASSIGNMENT 4: DESIGN FOCUS

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Architecture and System Design  
Process



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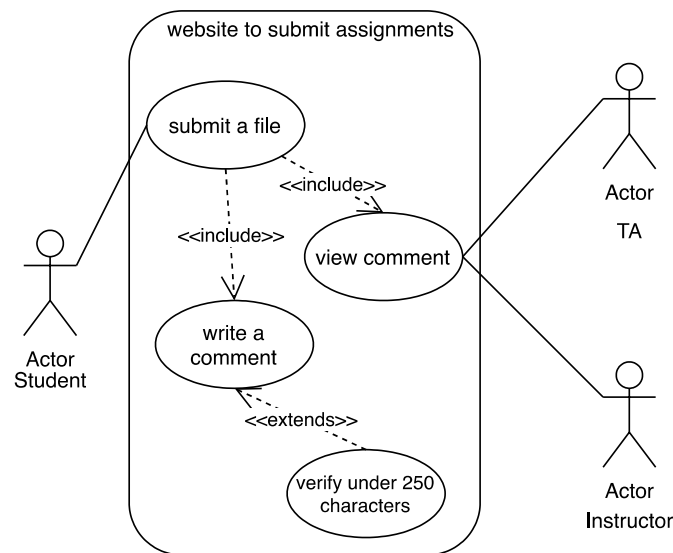
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# USE CASE DIAGRAM: COMMENTING

Contributor: Lauren

## Case Diagram for students commenting on their submission



## Student commenting on their submission Use Case Description

**Description:** Student goes to upload their assignment and is able to add a comment to it

**Triggers:** Going to the page that lets you submit an assignment, clicking on the text box for the comment

**Actors:** Student, TAs, Instructor

**Preconditions:** The student already has an account and is enrolled in the correct class. They also are signed in and are ready to submit an assignment

**Post Condition:** the comment is able to be read along with the file submission

**Goals:** The user goes to submit an assignment, clicks on the text box, writes a comment under 250 characters, and then when they're ready to submit the assignment the comment will be posted along with it.

**Fail End Condition:** The text box will have 0 characters and no comment will be attached to the file

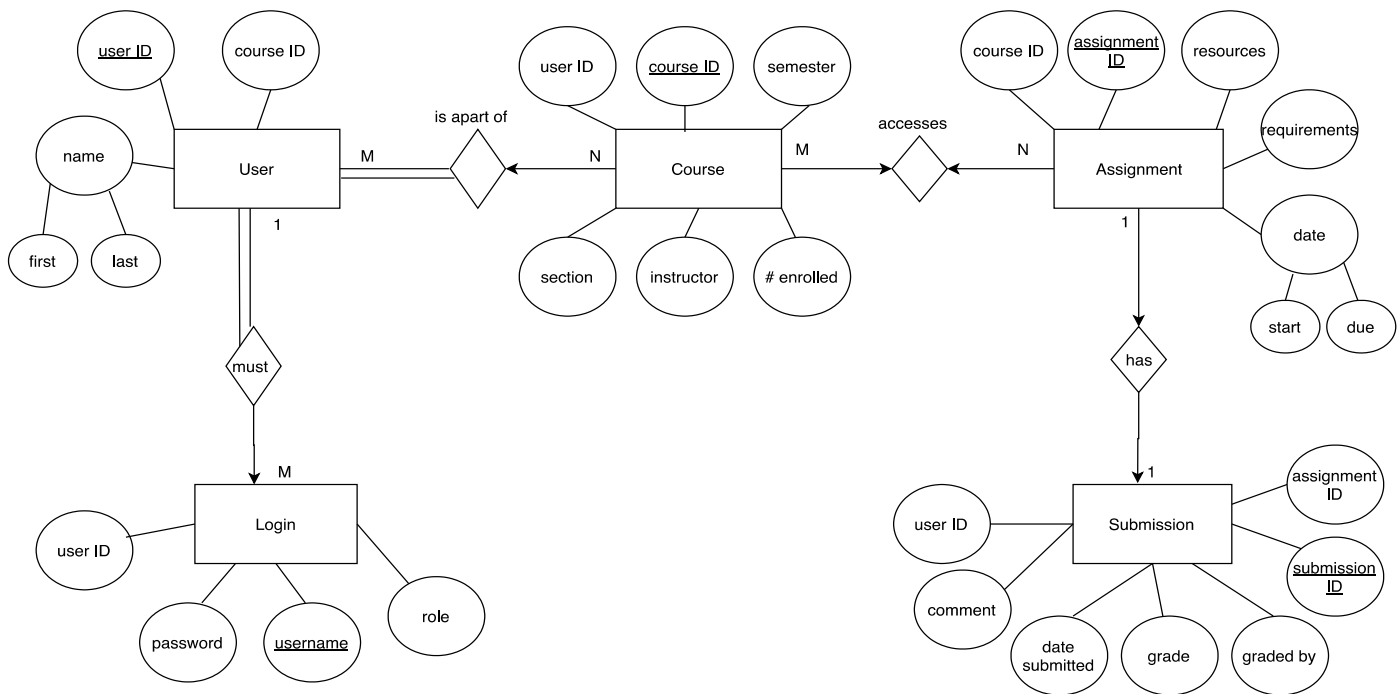
**Extensions:**

1. Computer crashes
  - 1a. The information in the text box is not saved and has to be retyped
2. Exceeds the character limit
  - 2a. Error message appears

This diagram shows the process of adding a comment to a file submission. It details that when you go to submit a file, a text box for a comment will be there where you can add up to 250 characters. You can view the comment and so can the TAs and Instructors.

# ENTITY-RELATIONSHIP DIAGRAM

*Contributors: Blake and Lauren during class*



This diagram just details the relationship among the different entities for the homework submitting program. The user entity is for all the different types of users (TA, students, Instructors). The user ID would be able to tell you what type of user they are. The user must Login. The Login entity stores the username and password. The user is also a part of a course, where they are linked through the user ID and course ID. The course has an ID that corresponds to a specific class that can be broken down into sections. It keeps some basic data about each course stored. Then, each course accessed an assignment. They are linked through course ID. Here, the assignment has an assignment ID where multiple assignments can be created for a course. Then the assignment has a submission, connected through assignment ID. This is where each student's actual work is kept.

# CLASS DIAGRAM: SUBMITTING ASSIGNMENT

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*Contributor: Blake and Lauren during class*

## Class Diagram

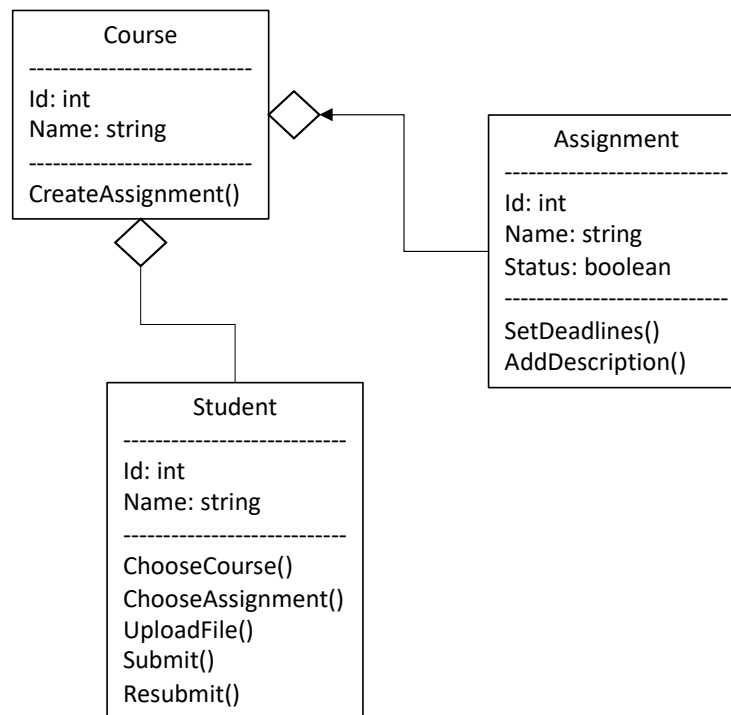
Contributors:

Blake Ruprecht, Lauren Cochran

Class diagram displaying the classes used for handling assignment submissions.

Assignment has a Status:

Boolean attribute that determines whether it is open or closed, as determined by the SetDeadlines() method.



# ACTIVITY DIAGRAM: UPLOADING A FILE

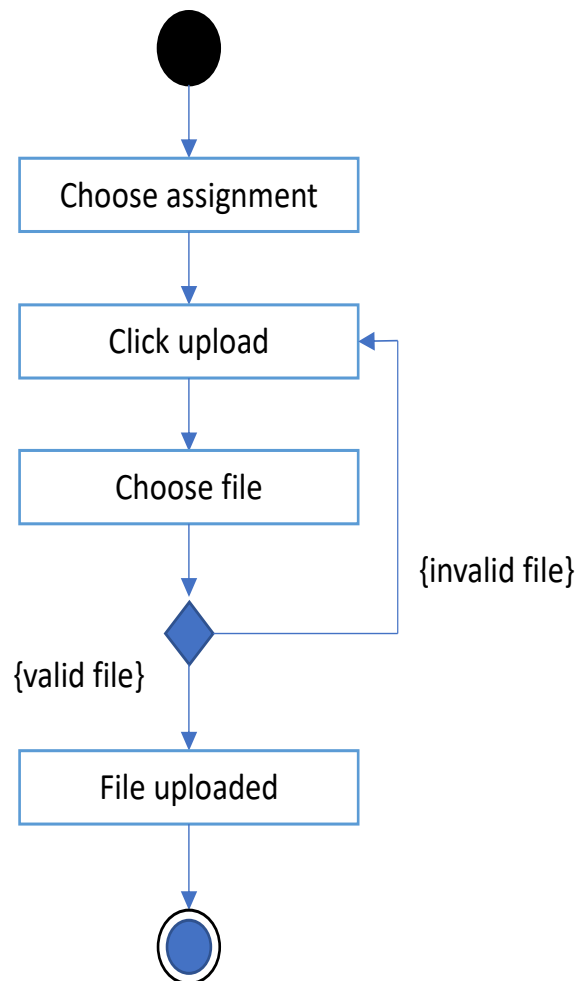
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Contributor: Blake

## Activity Diagram for Uploading a File

Contributors: Blake Ruprecht

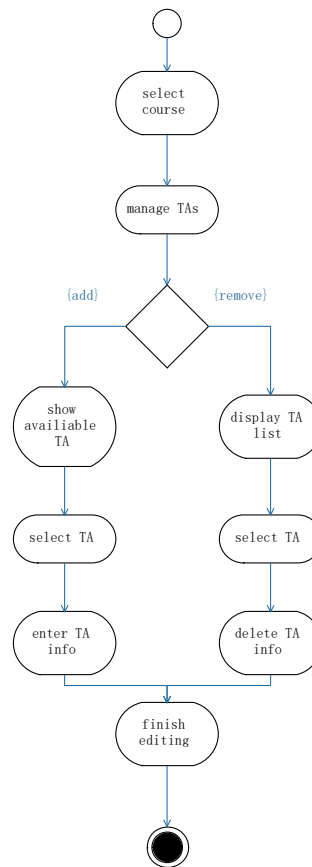
This is an activity diagram for the process of uploading a file, once you are already logged in



# ACTIVITY DIAGRAM: ADD/REMOVE TAS

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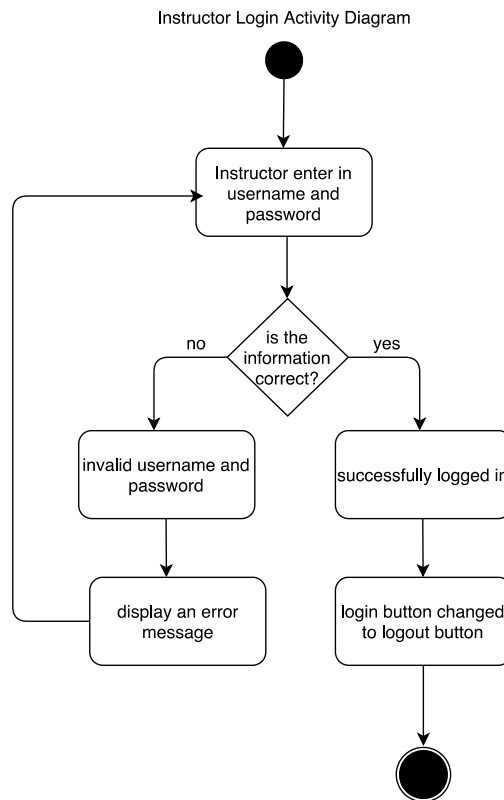
Contributor: Zhibin



This diagram shows how the Instructor is able to add or remove a TA to a course through an option that lets you edit/manage TAs to either delete or add them.

# ACTIVITY DIAGRAM: INSTRUCTOR LOGIN

*Contributor: Lauren*

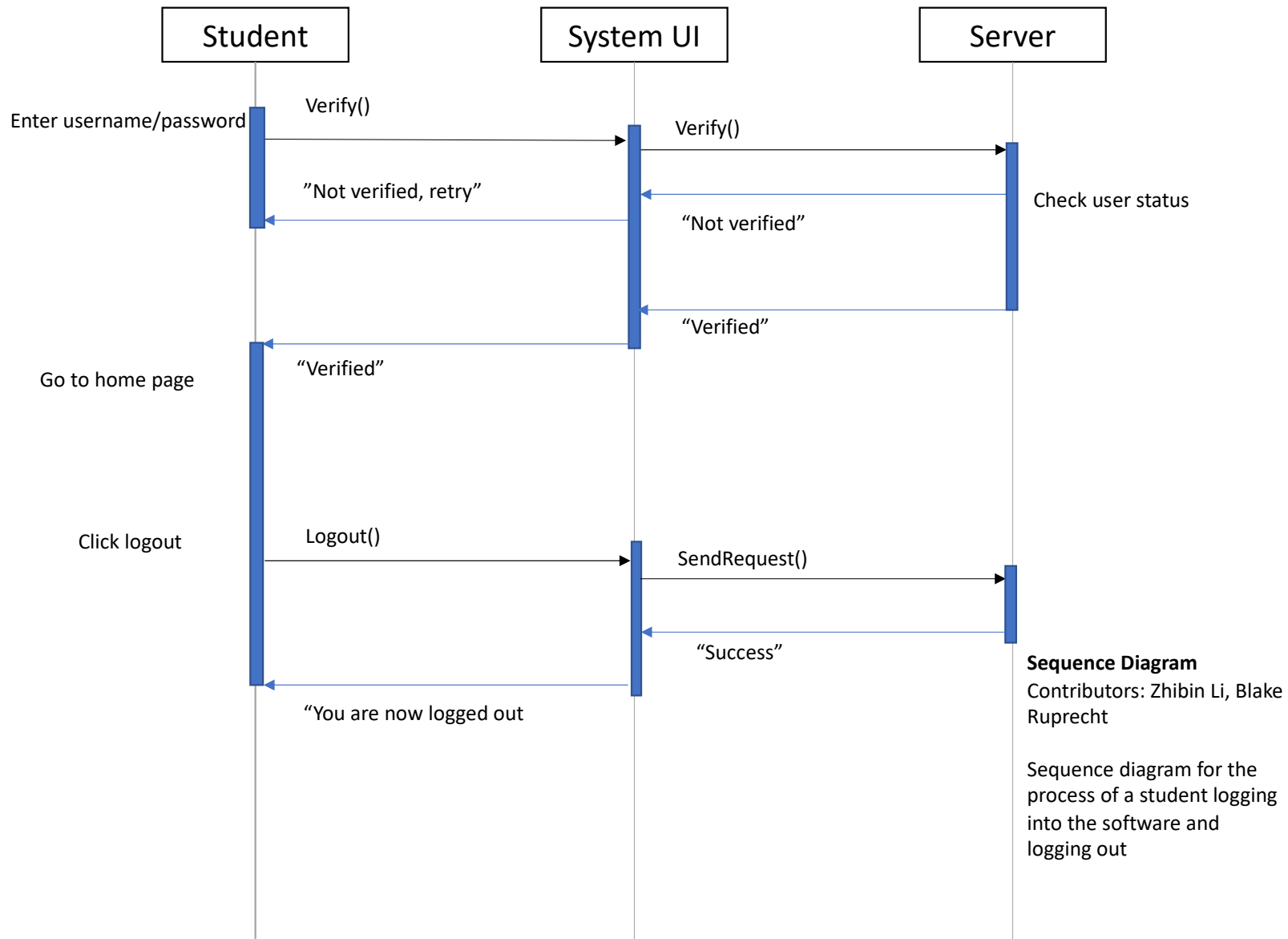


**This diagram shows how an Instructor is able to login. They first enter their credentials and based on the validity of those credentials determines if their login was successful or not.**



# SEQUENCE DIAGRAM: STUDENT LOGIN

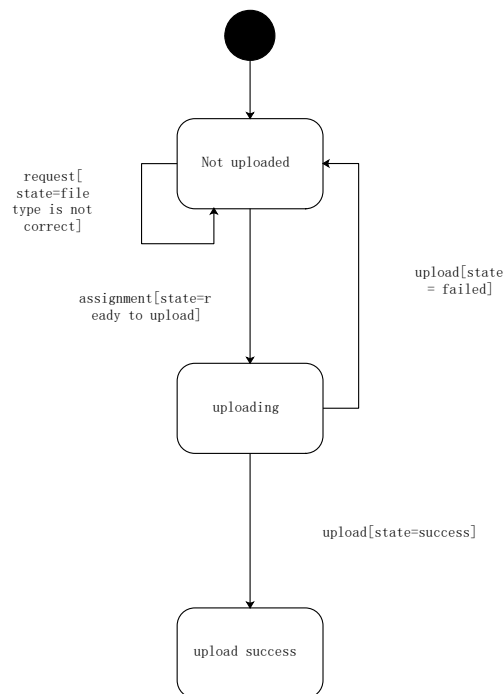
Contributors: Blake and Zhibin



# STATE MACHINE DIAGRAM: UPLOADING ASSIGNMENT

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*Contributor: Zhibin*



This diagram shows the process of uploading an assignment to the program. If it is not uploaded the state is failed and the assignment state is ready to upload. Once a file has been uploaded, the upload state becomes true.