Project 2: Design Focus

Architecture and System Design Process

Raphael Hutchins

Tim Keuhner
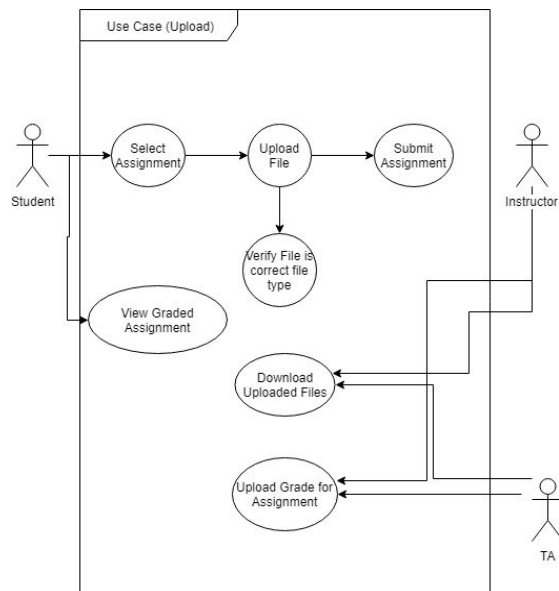
Andrew Cox

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Use Case Diagram

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Use Case Diagram

User: Student

Contributor: Raphael Hutchins

Student selects desired assignment.
Student Uploads file and submits
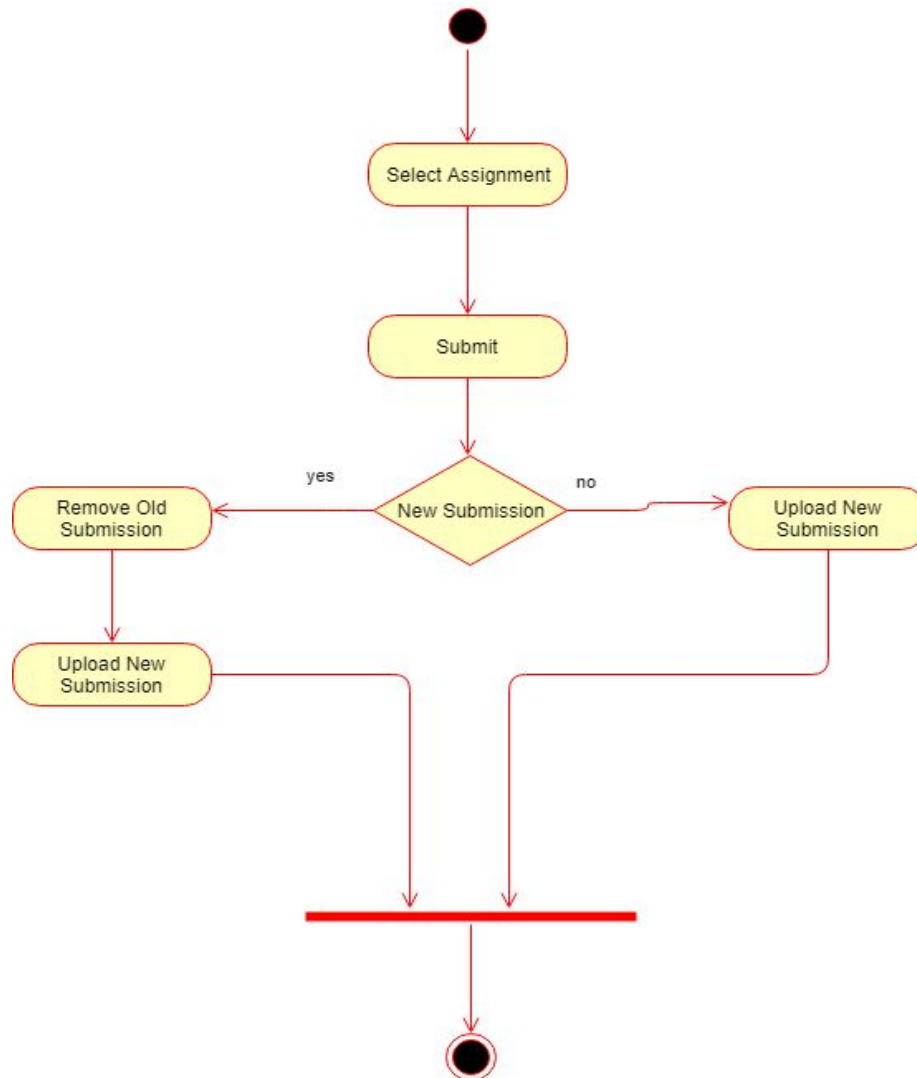assignment.

Use Case Upload

User: Student

Flow: Student selects the desired assignment. Student attempts to upload the desired file. If the file meets the requirements (PDF, WORD, etc.), then the file will be uploaded. If the file is not supported, then an error will be displayed, and the file will not be uploaded. Once the file is uploaded, the student can submit the assignment.

User(s): Instructor/TA

Flow: Instructor/TA can download assignments. They can also grade assignments for students to view.

Student Activity

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Activity Diagram

User: Student

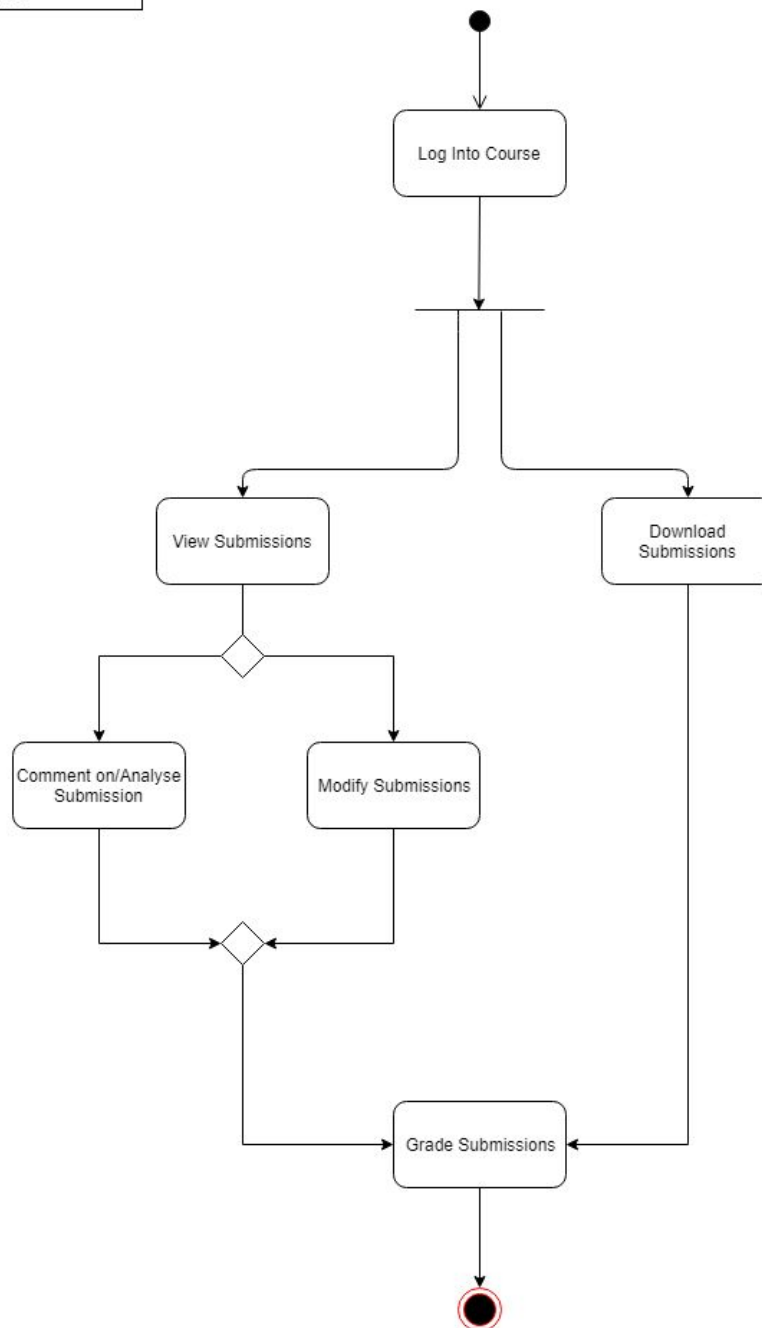Activity: Submit/Resubmit Uploaded File

Contributor: Raphael Hutchins

Caption: Student selects desired Assignment. Once student is ready, they press the submit button. If this is the first submission, then the file will be uploaded to the system. Any other submissions beyond the first will delete the previous submission and upload the new submission
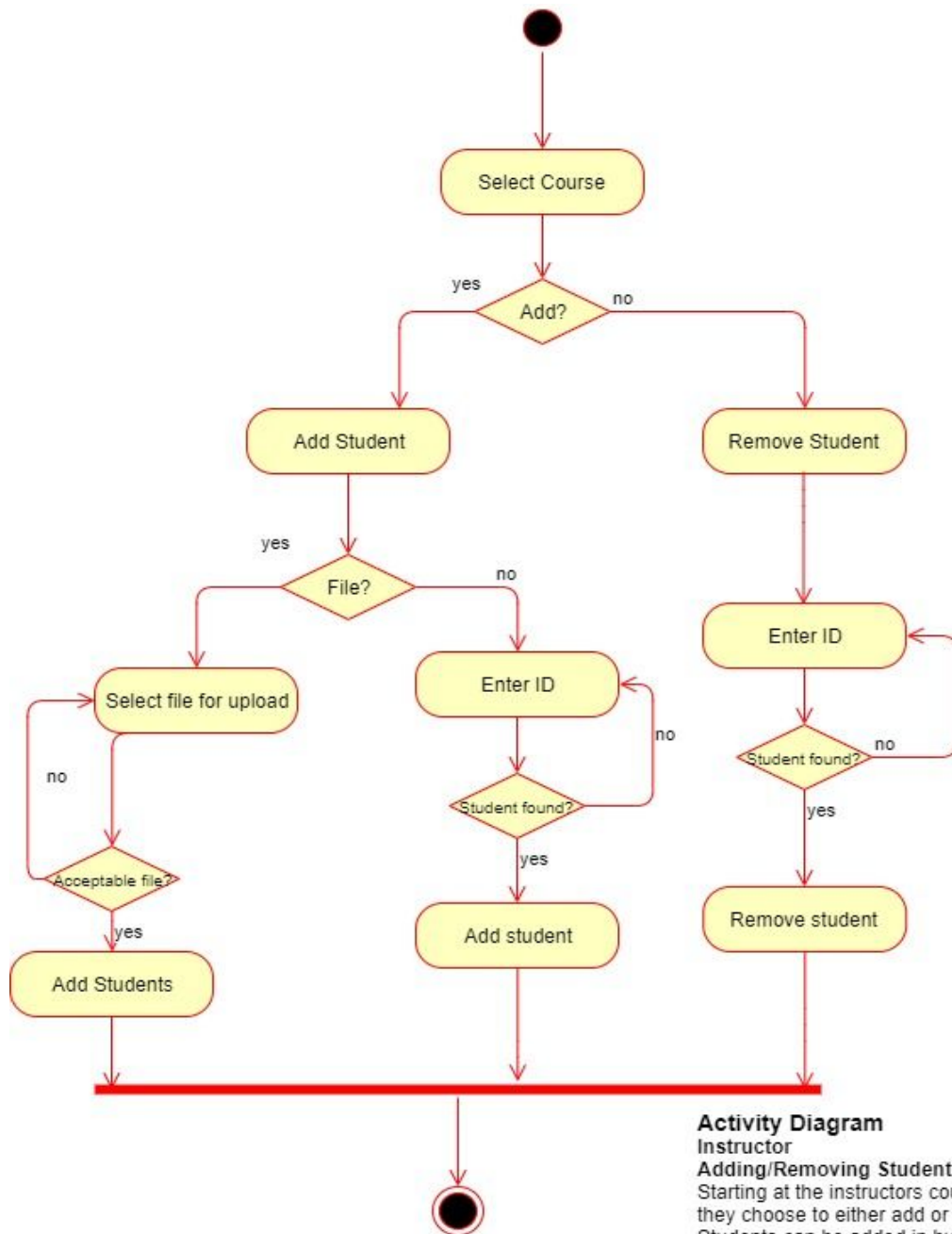
TA Activity Diagram

Tim Keuhner

Activity Diagram
TA: View Student
Submissions

Tim Kuehner

Log Into Course

View Submissions

Download
Submissions

Comment on/Analyse
Submission

Modify Submissions

Grade Submissions

Instructor Activity Diagram
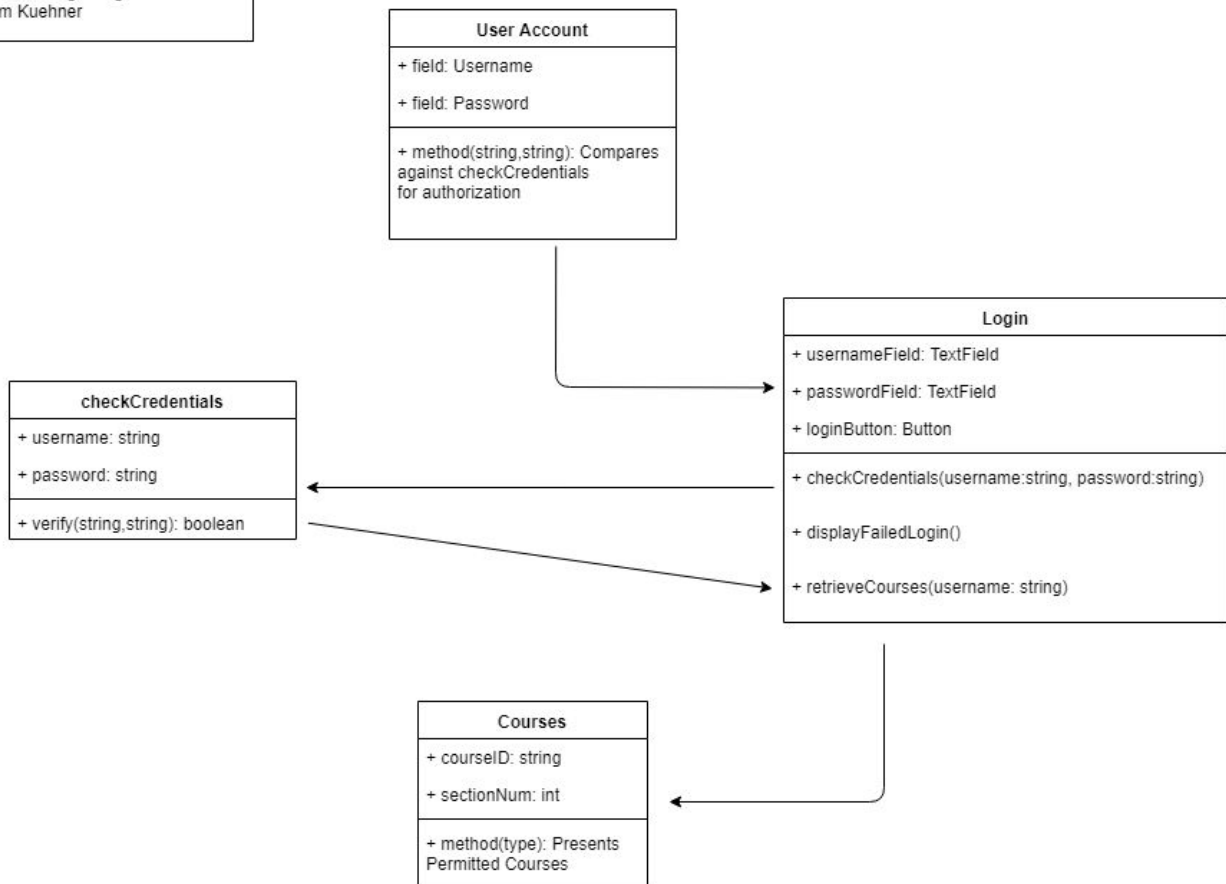
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Activity Diagram
Instructor
Adding/Removing Students
Starting at the instructors course page
they choose to either add or remove.
Students can be added in bulk so the option
to upload a file with IDs is given. An
acceptable file or ID will remove or add
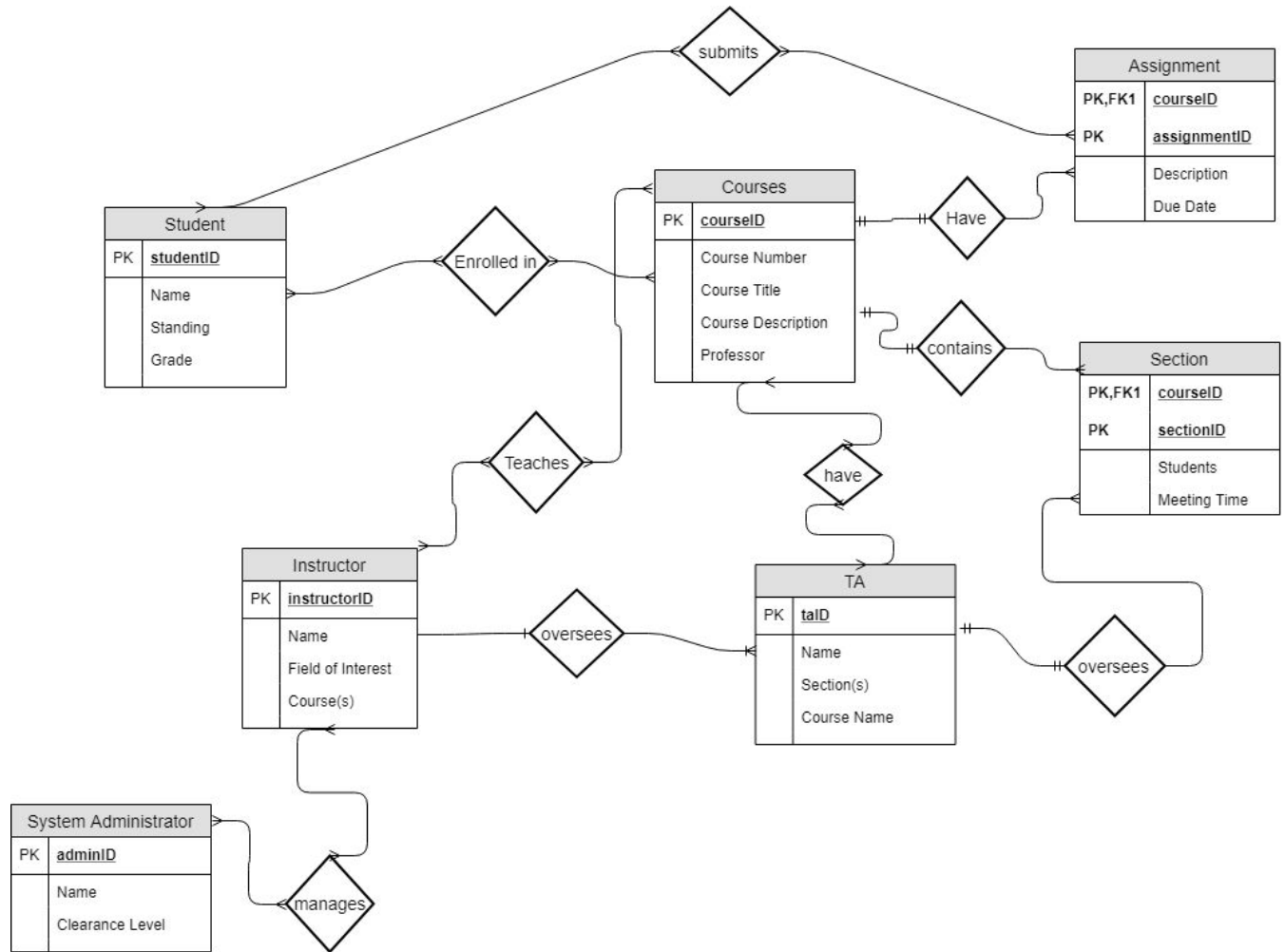the student from the course.

Class Diagram

Tim Keuhner

Class Diagram
Student Login/Logout
Tim Kuehner

User Account

+ field: Username

+ field: Password

+ method(string,string): Compares
against checkCredentials
for authorization

Login

+ usernameField: TextField

+ passwordField: TextField

+ loginButton: Button

+ checkCredentials(username:string, password:string)

+ displayFailedLogin()

+ retrieveCourses(username: string)

checkCredentials

+ username: string

+ password: string

+ verify(string,string): boolean

Courses

+ courseID: string

+ sectionNum: int

+ method(type): Presents
Permitted Courses

Entity Relationship Diagram

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Entity-Relationship Diagram
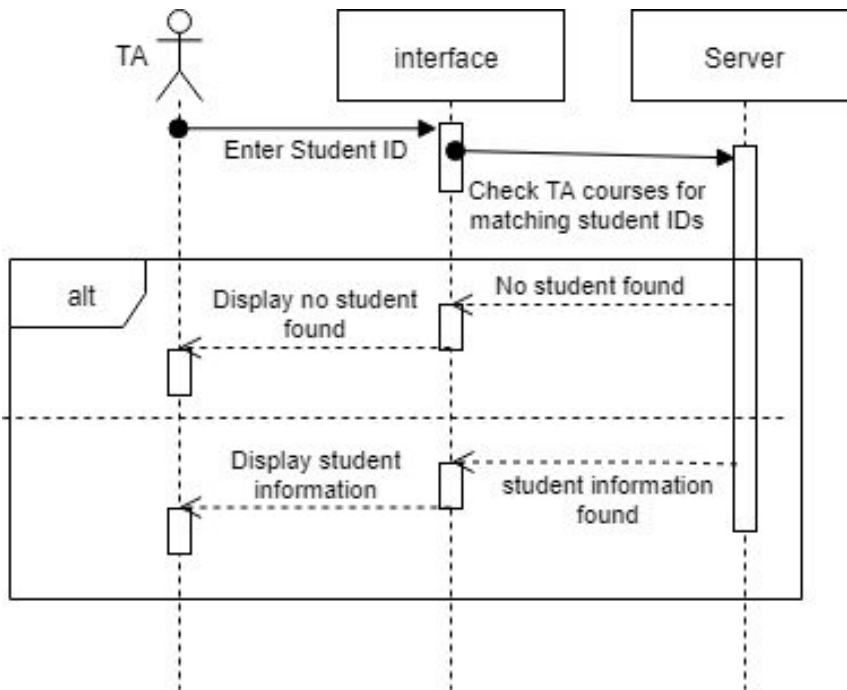
Contributor: Raphael Hutchins

Caption: ER Diagram for Student Submission System

Sequence Diagram

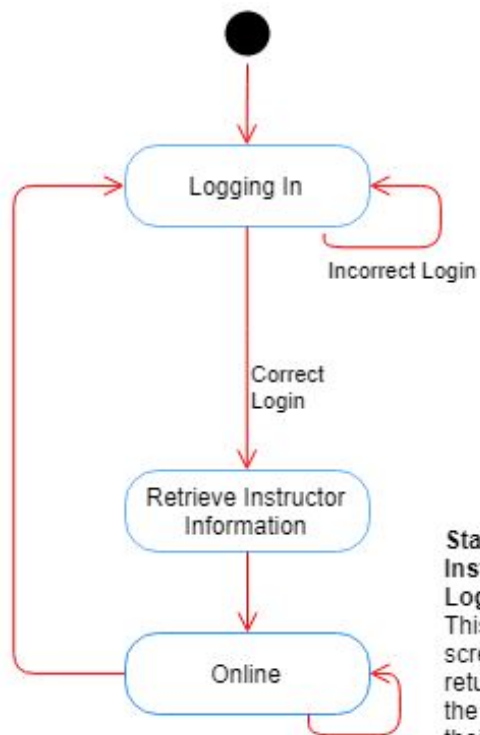Tim Keuhner
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Sequence Diagram
TA
Search for a students
The TA starts by entering the student ID and the server checks the server for the students in the TA's courses for a match a returns the result

State Machine Diagram

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State Machine Diagram
Instructor
Login/Logout
This diagram starts at the login
screen and after a failed login it
returns to the login screen or retrieves
the instructor's information and loads
their home, until logout is pressed.