

## Project 2: Design Focus – Architecture and System Design Process

Group 4

Michelle Huang, Jinbo Liu, Ziang Xu

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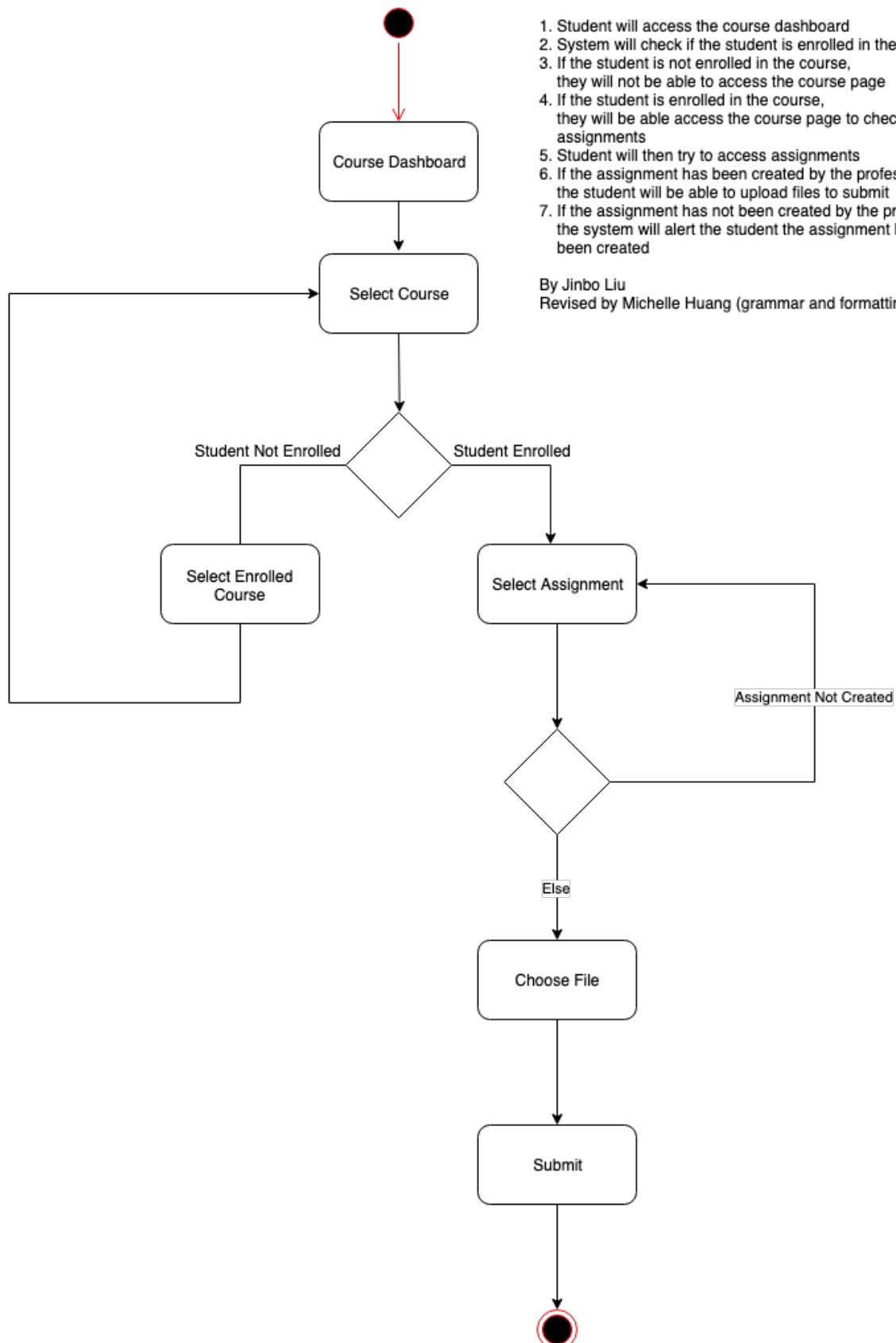
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Activity Diagram 1 - Submit (Student)

1. Student will access the course dashboard
2. System will check if the student is enrolled in the course
3. If the student is not enrolled in the course, they will not be able to access the course page
4. If the student is enrolled in the course, they will be able access the course page to check for assignments
5. Student will then try to access assignments
6. If the assignment has been created by the professor, the student will be able to upload files to submit
7. If the assignment has not been created by the professor, the system will alert the student the assignment has not been created

By Jinbo Liu

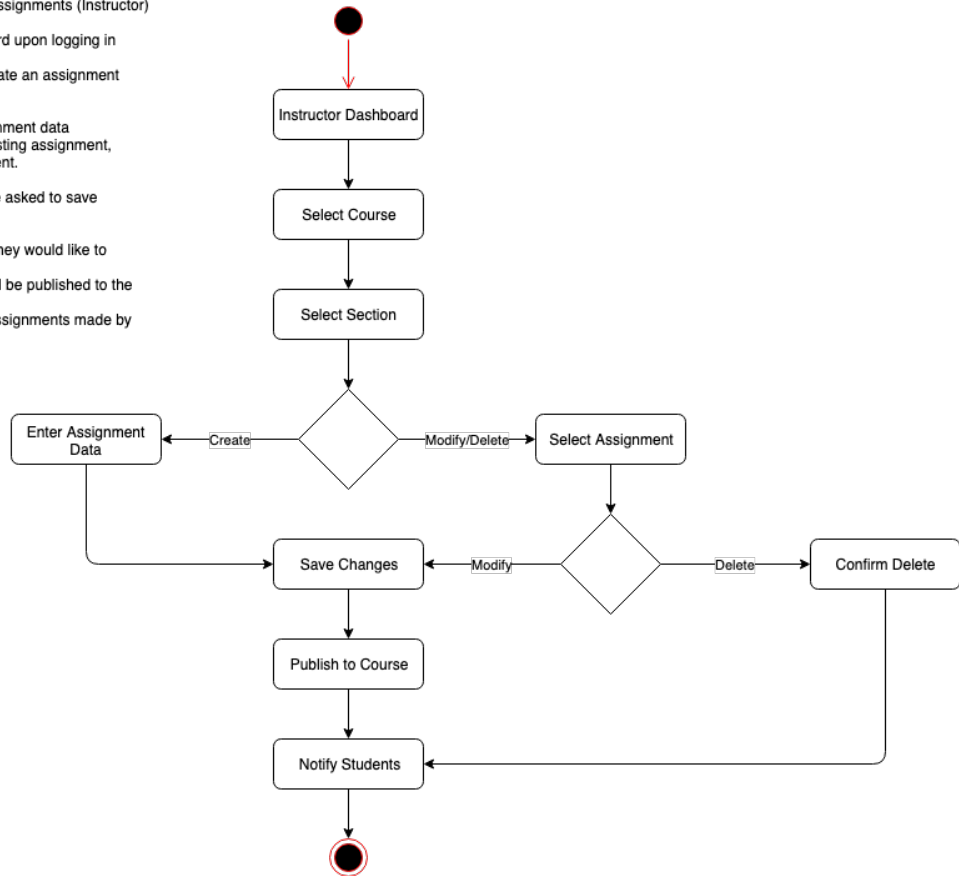
Revised by Michelle Huang (grammar and formatting)

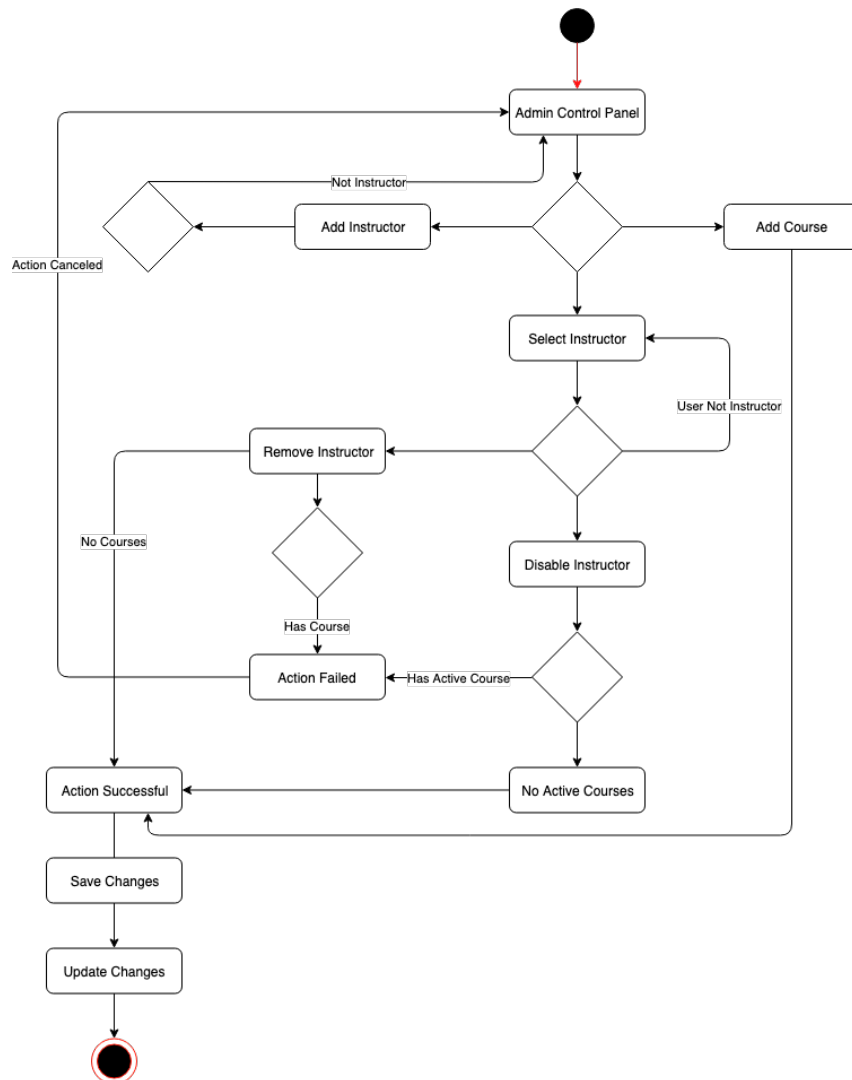


Activity Diagram 2 - Create/Edit/Remove Assignments (Instructor)

1. Instructor will be prompted to a dashboard upon logging in
2. They will choose the course and section
3. They will choose if they would like to create an assignment or modify/delete on existing one
4. If they create a new assignment, they will be asked to complete the assignment data
5. If they would like to modify/delete an existing assignment, they will be asked to select the assignment.
6. If modifying, they will edit the assignment data and be asked to save changes before proceeding
7. If deleting, a confirmation box will appear asking if they would like to delete the assignment
8. Any created or modified assignments will be published to the course page
9. Students will be notified of changes to assignments made by the instructor

Diagram and caption by Michelle Huang





Activity Diagram 3 - Manage Instructors (System Admin)

1. Admin will log in and see the Control Panel
2. Admin can choose to add a new instructor (to 4), add a course (to 5), or modify an instructor (to 5)
3. If the instructor exists, the admin can add a course, and action is successful (to 14)
4. If the instructor does not exist, action fails (to 13)
5. If the admin selects add course then course will be added (to 14)
6. If the admin selects delete (to 7) or disable instructor (to 10)
7. If the admin selects delete instructor, check if the instructor has a course
8. If the instructor does not have course, delete successful (to 14)
9. If the instructor does have course, action fails (to 13)
10. If the admin selects disable instructor, check if the instructor has an active course
11. If the instructor does not have active course, disable successful (to 14)
12. If the instructor does have active course, action fails (to 13)
13. If the action fails, action will be canceled and return to main control panel (to 1)
14. If action successful, change is saved
15. Save updated to the server

Diagram and caption by Ziang Xu

# Class Diagram - Login/Logout (All)

All users of the file submission system will have a username and password. Usernames will be PawPrint since they are already a unique identifier. Password's are chosen by the User.

User will create a new User with the given username and password.

checkUsername will check if the username exists in the database. If it does, the system will proceed to checkPassword and see if it matches the password to the username.

If both checkUsername and checkPassword return true, allow User to log in. Otherwise, return an error message to try again.

If User has forgotten password, forgotPassword will return true and prompt User to enter an email address to reset their password.

resetPassword will overwrite the existing password with the new one provided so long as a valid email address is provided

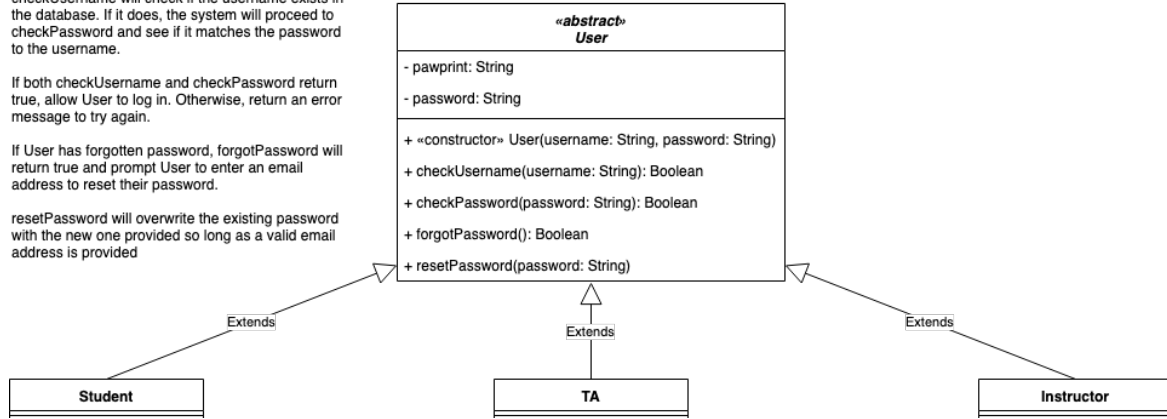
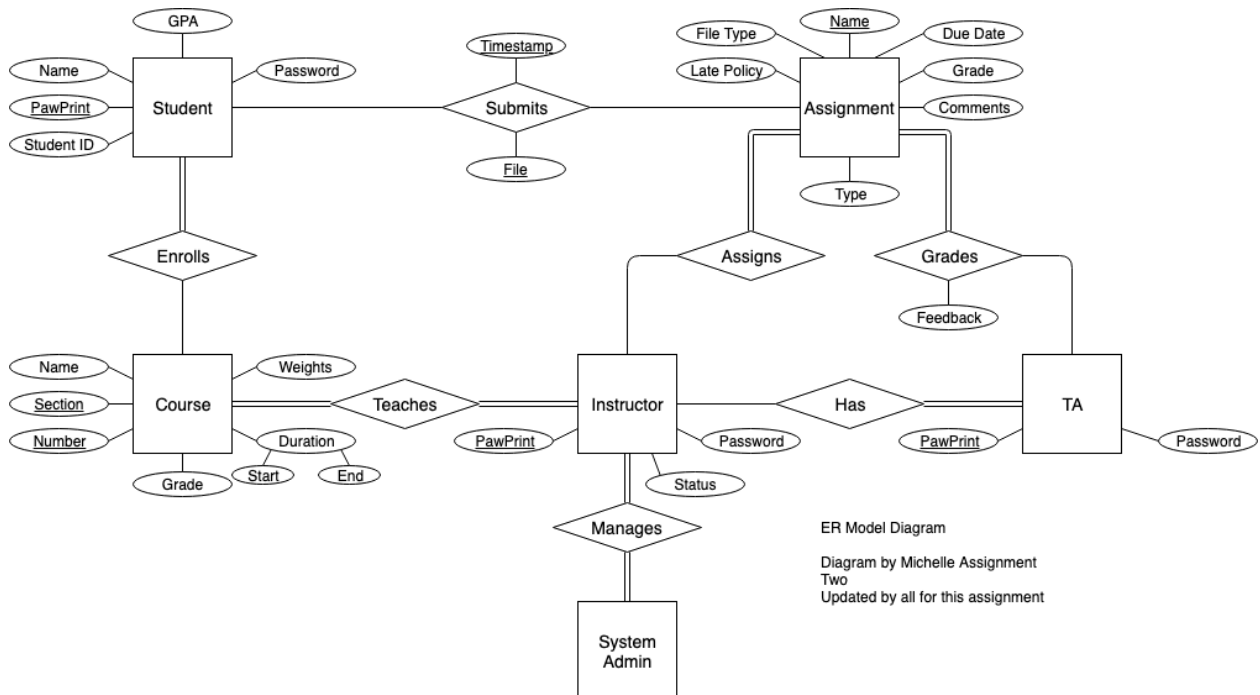
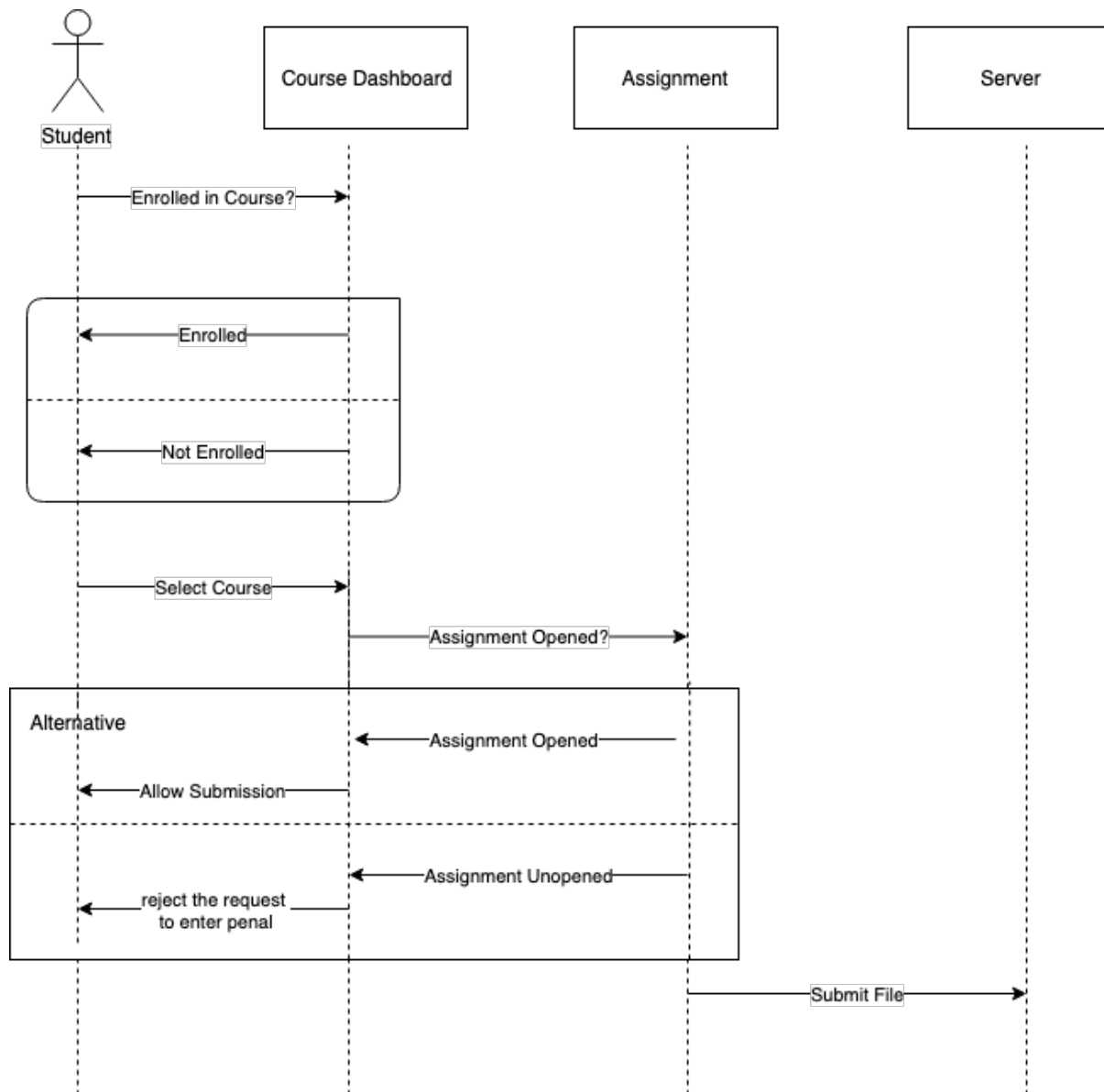


Diagram by Michelle Huang, Jinbo Liu, Ziang Xu  
Caption by Michelle Huang with method actions agreed on by all



ER Model Diagram

Diagram by Michelle Assignment  
Two  
Updated by all for this assignment



Sequence Diagram - Submit/Resubmit File (Student)

1. Student will access the course dashboard
2. System will check if the student is enrolled in the course
3. If the student is not enrolled in the course, they will not be able to access the course page.
4. If the student is enrolled in the course, they will be able access the course page to check for assignments
5. Student will then try to access assignments.
6. If the assignment has been created by the professor, the student will be able to upload files to submit
7. If the assignment has not been created by the professor, the system will alert the student the assignment has not been created

Diagram and caption by Jinbo Liu  
Caption revised by Michelle Huang

State \ Trigger	Name Entered	Name Not Entered
Student in Course	Return Student	Return All
Student Not in Course	Return "Student Not Found"	Return All

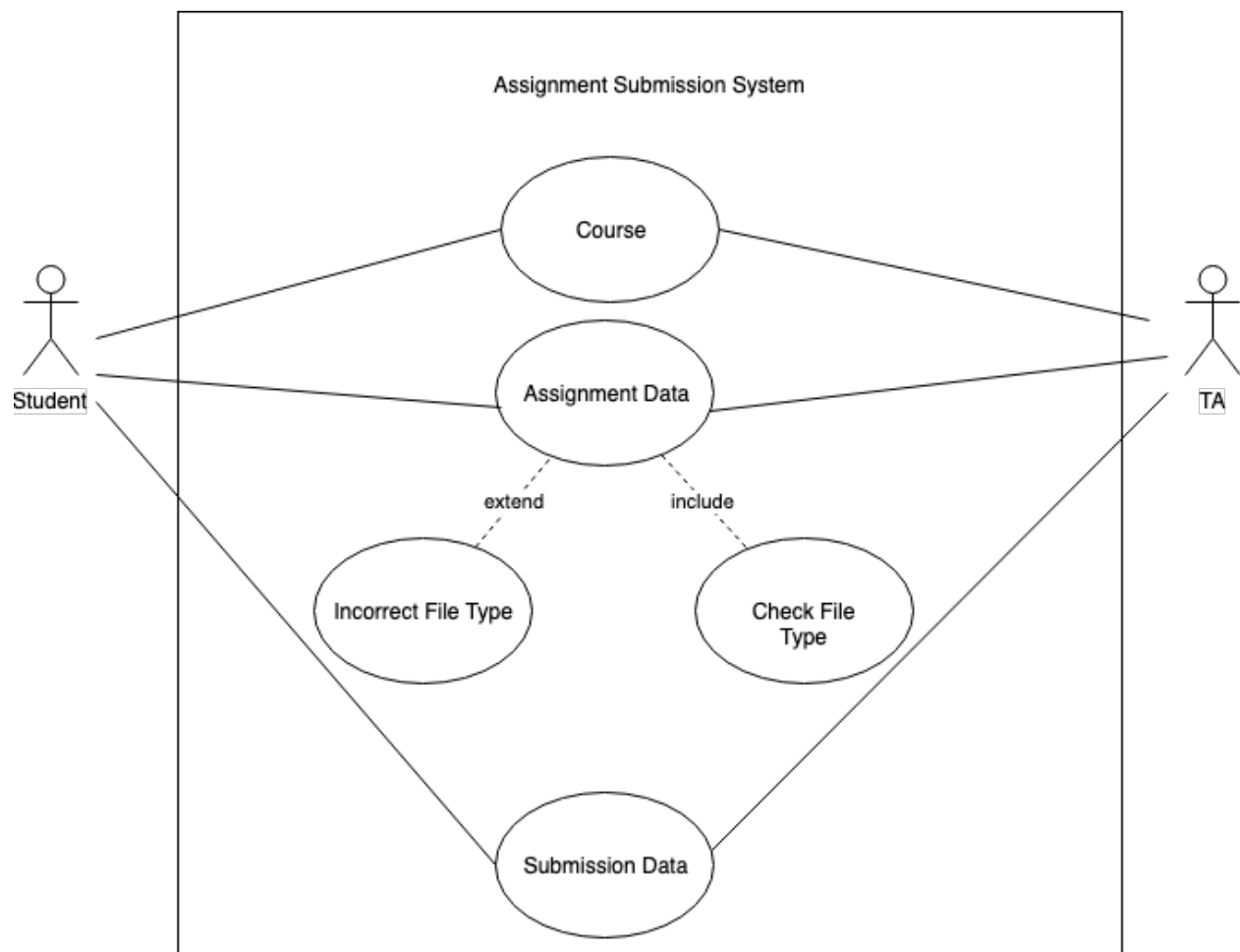
#### State Machine - Search Students (TA)

If TA enters a student name and the student is enrolled in the course, the system will return the student's profile.

If TA enters a student name and the student is not enrolled in the course, the system will prompt the TA the student is not found.

If no names are entered, the TA will view all students in the course.

Diagram and caption by Michelle Huang



#### Use Case Diagram - Upload File (Student)

Student file upload and TA file download

To submit a file or download a file, student or TA should enter the specific course panel

If the submission is rejected due to an incorrect file type, system will prompt user the message let user choose the correct type of file to submit again.

Diagram and caption by Jinbo Liu  
Caption revised by Michelle Huang