Use Cases

ID: UC-1
Title: Upload programming assignment
Description: User uploads assignment to remote server to wait for grading
Primary Actor: Student
Precondition: Student logged in through Campus ID
Postcondition: The student's assignment exists in their remote directory ready for grading.
Main Success Scenario:
1. Student selects "Upload Assignment" from the menu
2. System displays list of assignments
3. Student selects assignment
4. Student chooses file from file dialog
5. Student clicks "Upload"
6. System confirms successful upload

Extensions:
2a. No assignments are available for the student to select
--- 2a1. System displays error and provides reason
--- 2a2. Student backs out of use case or tries again
3a. Assignment deadline has passed
--- 3a1. System displays error and informs user deadline has passed
--- 3a2. User selects different assignment or backs out
5a. Selected file does not match proper extension
--- 5a1. System displays error and informs user of the necessary extension
--- 5a2. User selects new file in file dialog or backs out
5b. Selected file does not match file name
--- 5b1. System displays error and informs user of the necessary file name
--- 5b2. User selects new file in file dialog or backs out
5c. Selected file exceeds preset file size limit
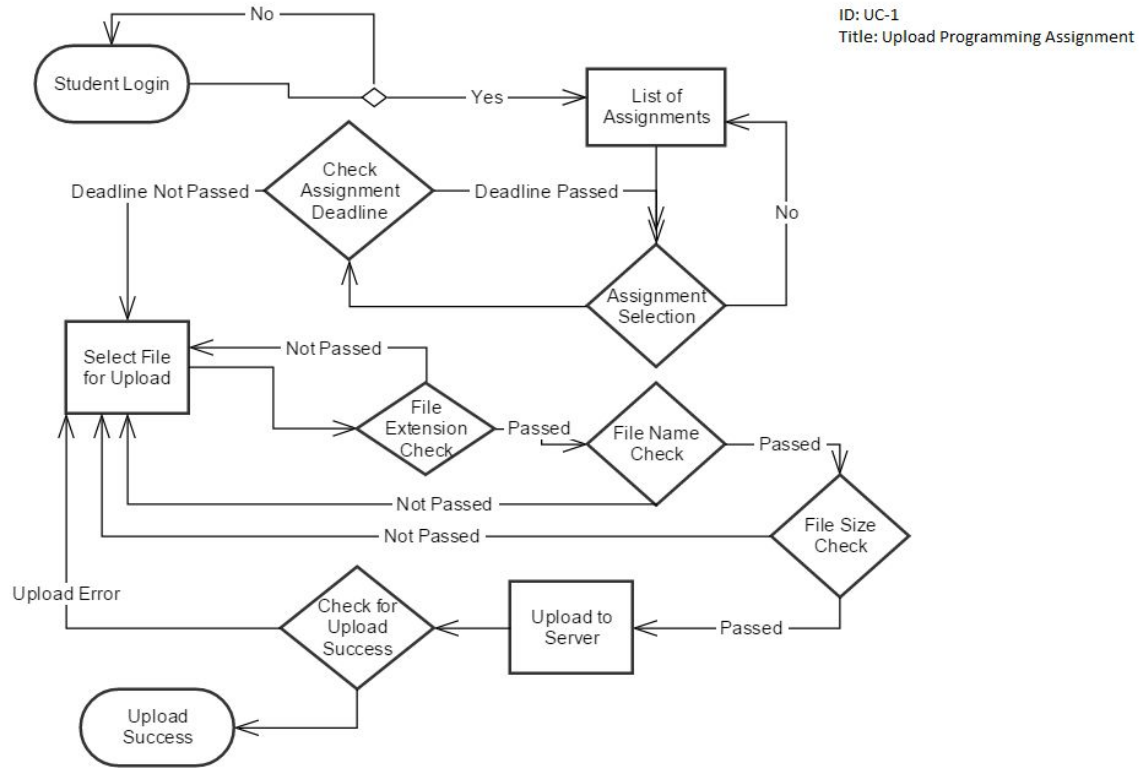--- 5c1. System displays error and informs user of preset file size limit
--- 5c2. User selects new file in file dialog or backs out
Frequency of Use: Multiple times per assignment
Status: Inception phase
Owner: UMBC?
Priority: P1 - Highest

ID: UC-1
Title: Upload Programming Assignment

[Flowchart diagram]

- No
- Student Login
- Yes → List of Assignments
- Check Assignment Deadline
  - Deadline Not Passed
  - Deadline Passed
- Assignment Selection
  - No
- Select File for Upload
  - Not Passed
- File Extension Check — Passed
- File Name Check — Passed
- File Size Check
  - Not Passed
  - Not Passed
  - Passed
- Upload to Server — Passed
- Check for Upload Success
- Upload Error
- Upload Success

ID: UC-2
Title: Grading of students assignment
Description: System runs student's script/assignment and gives a grade to student
Primary Actor: Student
Precondition: Student has successfully uploaded an assignment
Postcondition: Student is informed of their grade
Main Success Scenario:
1. Script runs student assignment versus instructor rubric
2. Student gets grade back
3. Student to choose to accept their grade or re upload assignment

Extensions:
1a. Student assignment has errors which prevents the script from running
--- 1a1. System proceeds and user receives a fail for this attempt
--- 1a2. User attempts grading again or backs out
1b. Student has already attempted grading three times
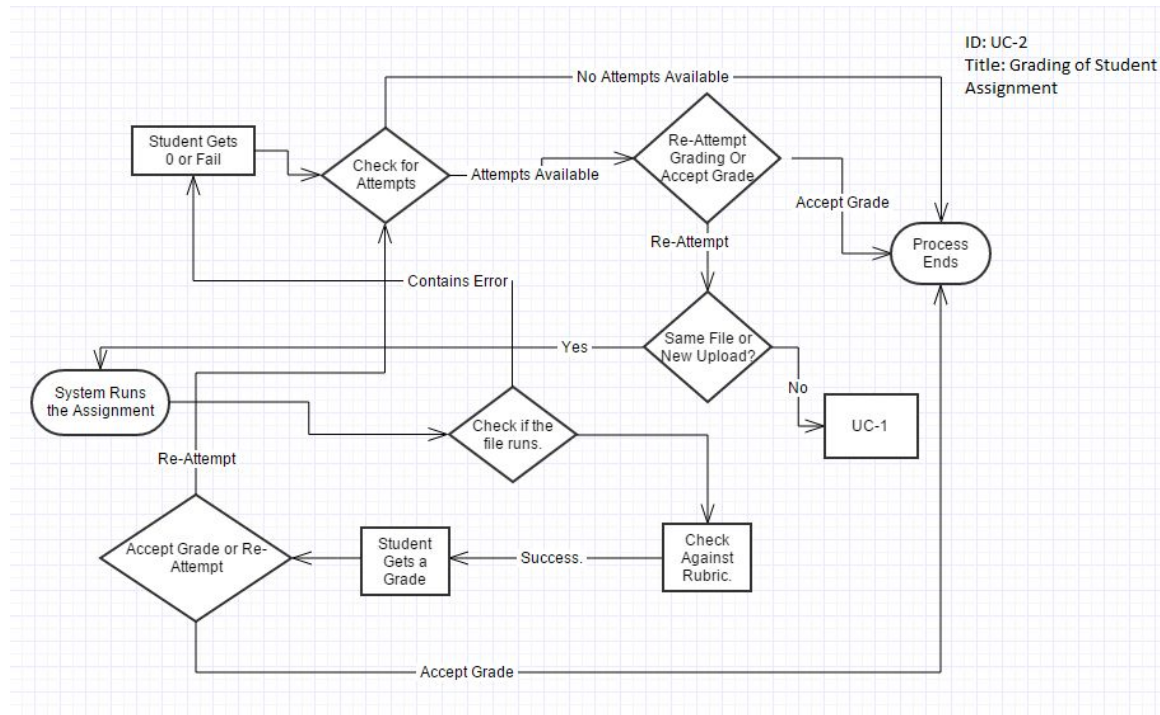--- 1b1. System displays error and informs user of attempt limit reach

--- 1b2. User backs out
Frequency of Use: Up to three times per assignment
Status: Inception phase
Owner: UMBC?
Priority: P3 - Medium

ID: UC-2
Title: Grading of Student Assignment

ID: UC-3
Title: Instructor setting up the assignment directory
Description: Instructor publishes an assignment for all students in the selected course
Primary Actor: Instructor
Precondition: Instructor is logged into the system
Postcondition: The assignment is setup and students can submit
Main Success Scenario:
1. Instruct selects the proper course to create a new assignment
2. Instructor selects "New Assignment" from the menu
3. System displays fields to upload the correct script, inputs, and deadline
4. Instructor selects files and provides required input for each field using file dialogs
5. Instructor publishes assignment

Extensions:
4a. Selected input file does not match proper extension
--- 4a1. System displays error and informs user of the necessary extension
--- 4a2. User selects new file in file dialog or backs out

4b. Provided deadline has already passed
--- 4b1. System displays error and informs user deadline has already passed
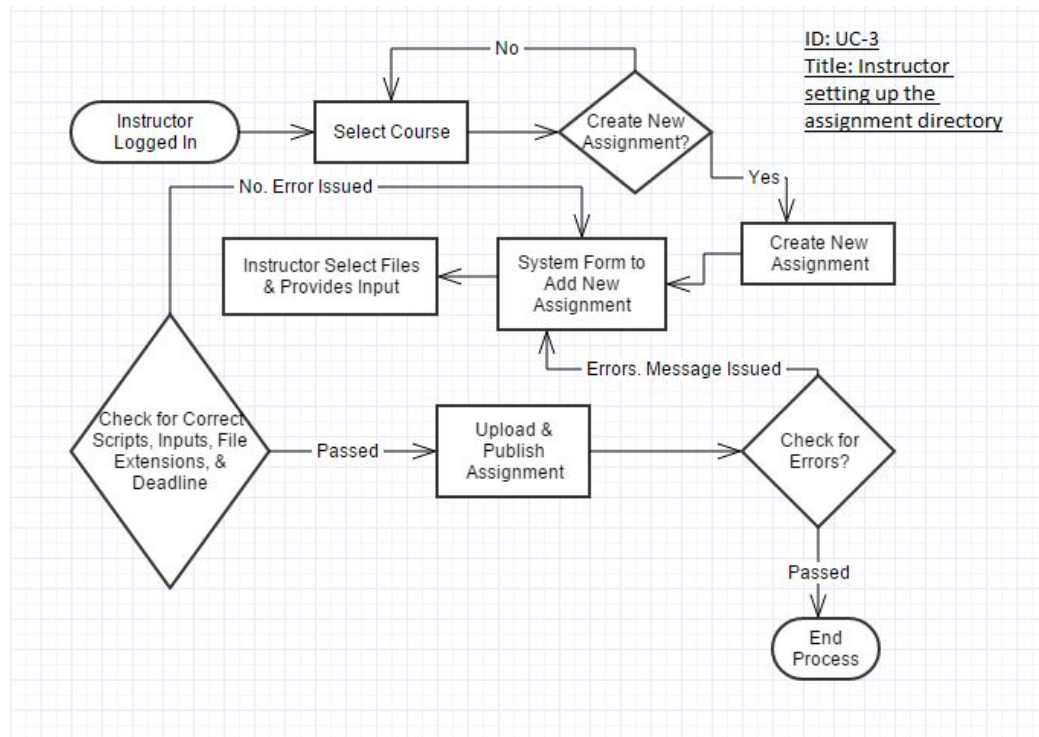--- 4b2. User selects new deadline or backs out
Frequency of Use: Once per assignment
Status: Inception phase
Owner: UMBC?
Priority: P2 - High

ID: UC-3
Title: Instructor setting up the assignment directory

ID: UC-4
Title: Instructor review
Description: Instructor reviews student submissions under authorized courses
Primary Actor: Instructor
Precondition: Instructor authorized as instructor for at least one UMBC course
Postcondition: Instructor has access to graded assignments for each student in the course
Main Success Scenario:
1. Instructor selects authorized course
2. System displays list of assignments published by the instructor
3. Instructor selects an assignment
4. System displays the list of students in the course, with links to their corresponding submissions for the assignment, the grade for each submission, and any flags
5. Instructor selects one of a student's submissions

6. Submission is displayed for review by the instructor

Extensions:

2a. No published assignment were found for the selected course

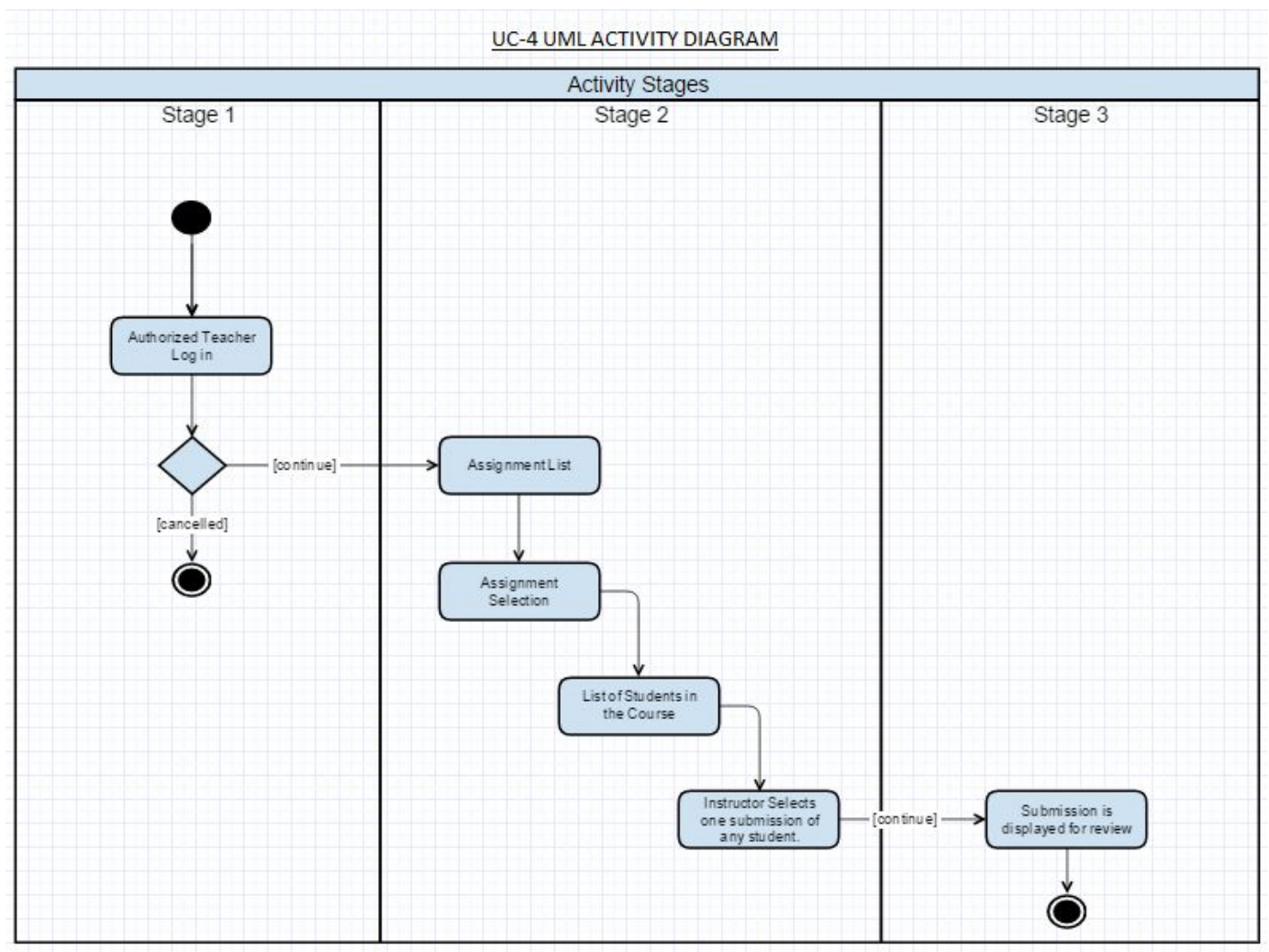--- 2a1. System displays error and explains the need to publish an assignment

--- 2a2. User backs out

Frequency of Use: Once per assignment

Status: Inception Phase

Owner: UMBC?

Priority: P3 - medium

UC-4 UML ACTIVITY DIAGRAM

Activity Stages		
Stage 1	Stage 2	Stage 3

ID: UC-5

Title: Administrator Access

Description:

Primary Actor: Administrator
Precondition: Administrator can login to the deployed system.
Postcondition: Administrator can create classes and add instructors
Main Success Scenario:
1. Administrator logs into the system with administrator level access
2. Administrator adds a class to the system
3. Administrator gives an instructor access to that class

Extensions:
1a. User doesn't have administrator level access
--- 1a1. System displays error and denies access
--- 1a2. User backs out
Frequency of Use: Once at the start of the semester
Status: Inception Phase
Owner: UMBC?
Priority: P2 - high