Northeastern University

College of Computer and Information Science

CS5500: Managing Software Development

Team-107 Project Use Cases

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https://github.ccs.neu.edu/cs5500/team-107

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Here are the updated use cases. We have delivered a little more than we promised in Phase A. All of the use cases have been implemented in the system.

Use Case	SpecifyDirectories
Goal in context	To be able to specify the homework number and two or more directories that contains homework folders of two or more students for finding out potential case of plagiarism.
Primary Actor	Professor, Teaching Assistant
Preconditions	Students have submitted their assignments and their directories are available locally.
Trigger	The actor decides to select the homework number and directories for detecting plagiarism.
Scenario	Professor/TA: Selects multiple directories. Professor/TA: Specifies homework number. Professor/TA: Clicks the submit button.
Exceptions	1. homework submitted in incorrect folder 2. homework not submitted at all
Priority	Essential, must be implemented

Use Case	SpecifyStudentData
Goal in context	To be able to specify the excel file that contains information about the user's id, name and email address.
Primary Actor	Professor, Teaching Assistant
Preconditions	An excel file containing student information is ready to use.
Trigger	The actor decides to upload the excel file containing user information
Scenario	Professor/TA: clicks on the upload excel file button Professor/TA: browses for the excel file and clicks 'OK'.
Exceptions	1. The excel file is not properly formatted 2. The excel file has students with the same id
Priority	Essential, must be implemented

Use Case	SpecifyAlgorithm
Goal in context	To be able to specify the algorithm to be applied to check for plagiarism between two or more students
Primary Actor	Professor, Teaching Assistant
Preconditions	None
Trigger	The actor selects which algorithm to use.
Scenario	Professor/TA: clicks on the algorithm drop-down menu Professor/TA: clicks on an algorithm to use.
Exceptions	None
Priority	Essential, must be implemented

Use Case	ViewSummary
Goal in context	To view the summary of the results generated by the plagiarism detector. The user can see a list of highly suspicious pairs, moderately suspicious pairs, and clean students.
Primary Actor	Professor, Teaching Assistant
Preconditions	The actor has specified the directories from which files are to be picked up for comparison.
Trigger	The actor decides to check the submissions for plagiarism.
Scenario	Professor/TA: uploads the directories of source files. Professor/TA: observes the view summary button and clicks it.
Exceptions	1. The file submitted is corrupted. 2. The file format is not recognized
Priority	Essential, must be implemented

Use Case	ViewSimilarSnippets
Goal in context	To view the similar snippets of two different student submissions side-by-side so as to make a final decision of whether or not to report it to OSCCR or the CCIS council.
Primary Actor	Professor, Teaching Assistant
Preconditions	The actor has specified which student pair to view similar code.
Trigger	The actor decides to check the submissions for plagiarism for a particular student pair .
Scenario	Professor/TA: uploads the directories of source files. Professor/TA: observes the summary. Professor/TA: clicks on a student pair
Exceptions	1. The files submitted are blank/corrupted. 2. Files on the local machine do not correspond to any student
Priority	Essential, must be implemented

Use Case	SaveReport
Goal in context	To save a report containing similar code from two students, along with student information.
Primary Actor	Professor, Teaching Assistant
Preconditions	The actor has specified which student pair to view similar code.
Trigger	The actor decides to check the submissions for plagiarism for a particular student pair .
Scenario	Professor/TA: uploads the directories of source files. Professor/TA: observes the summary. Professor/TA: clicks on a student pair Professor/TA: clicks on the 'save report' button
Exceptions	1. The files submitted are blank/corrupted. 2. Files on the local machine do not correspond to any student
Priority	Essential, must be implemented

Use Case	RevealStudentNames
Goal in context	To reveal the names of the students who are suspected to have plagarized code
Primary Actor	Professor
Preconditions	The professor has selected the student pair to check for plagiarism, and has gone through the similarities in code.
Trigger	The professor decides to find out the names and email addresses of the .
Scenario	Professor/TA: uploads the directories of source files. Professor/TA: observes the summary. Professor/TA: clicks on a student pair Professor/TA: clicks on the 'reveal names' button
Exceptions	1. Student information is not provided/false. 2. Files on the local machine do not correspond to any student
Priority	Essential, must be implemented

Use Case	SaveReport
Goal in context	To save a report containing similar code from two students, along with student information.
Primary Actor	Professor, Teaching Assistant
Preconditions	The actor has specified which student pair to view similar code.
Trigger	The actor decides to check the submissions for plagiarism for a particular student pair .
Scenario	Professor/TA: uploads the directories of source files. Professor/TA: observes the summary. Professor/TA: clicks on a student pair Professor/TA: clicks on the 'save report' button
Exceptions	1. The files submitted are blank/corrupted. 2. Files on the local machine do not correspond to any student
Priority	Essential, must be implemented

Use Case	EmailStudents
Goal in context	To email students to come meet the professor at a particular time and place to discuss the plagiarism case.
Primary Actor	Professor
Preconditions	The professor has viewed the similar snippets and concludes that it is indeed a case of plagiarism.
Trigger	The professor wants to have a word with the students after viewing similar snippets
Scenario	Professor/TA: uploads the directories of source files. Professor/TA: observes the summary. Professor/TA: clicks on a student pair Professor/TA: clicks on the 'email students' button
Exceptions	1. The students' email address are not known. 2. The system does not have an email client.
Priority	Essential, must be implemented

Use Case	ViewGlobalStatistics
Goal in context	To view statistics such as how many times the detector was run, number of files scanned, and number of cases detected
Primary Actor	Professor
Preconditions	The Actors have run the plagiarism detector at least once before.
Trigger	The professor wants to see statistics of the the application
Scenario	Professor/TA: Runs the plagiarism detector Professor: Clicks on Statistics - Global Statistics
Exceptions	1. The application has never been run before
Priority	Low, can be implemented