

USE CASE MODELLING

PLAGIARISM DETECTION APPLICATION

TEAM - 204

Case 1:

Use Case:	Student uploads project files into the system
Primary Actor:	Student
Goal in Context:	The goal is to load the file/files of the project to be compared to the other project into the system. This is initialization step. Once successful will trigger the next process of the system of comparison.
Preconditions:	The web UI need to be loaded completely and a working network connection to the server.
Trigger:	The upload button to open the file/folder dialog
Scenario:	1> The student opens the web UI using any web browser 2> The User then using the upload project uploads the first project which can be a file/files into the system. 3> Once the upload is done successfully, 4> The above steps are repeated for the next project from 'Step 2'.
Exceptions:	1> The connection could fail between the client and server a. The user can reload the webpage after the connection is reestablished 2> The upload of the files fails. a. The user can follow the use case 2 for the steps that can followed. 3> The parsing of the files fails. a. The user can follow the use case 2 for the steps that can followed

Case 2:

Use Case:	Student Registering For a Course
Primary Actor:	Student
Goal in Context:	The goal is to register for a Course.
Preconditions:	Courses are already created in the database.
Trigger:	The failure to add courses does not register students for that course.

USE CASE MODELLING

Scenario:	1> Course is added into Student Dashboard. 2> Student can navigate to Assignments page of that course.
Exceptions:	1> If Addition of course fails you get an error saying course addition failed.

Case 3:

Use Case:	Professor Generate the score or start comparison
Primary Actor:	Professor
Goal in Context:	To start the main process of comparison between the projects.
Preconditions:	The project files that are to be compared uploaded successfully.
Trigger:	The compare button triggered by the Professor
Scenario:	1> The 'Plag Check' button is triggered by the user 2> The comparison is run at the server and score is returned
Exceptions:	1> If there is error in processing the comparison, error code is returned Based on which the entire process has to be restarted

Case 4.

Use Case:	The system triggers the comparison between the projects
Primary Actor:	System
Goal in Context:	The goal is to trigger comparison engine by queuing and starting the comparison the server.
Preconditions:	The files uploaded to the server from the client and ready to process
Trigger:	The successful upload of the files to the server from the client.
Scenario:	1> Once the client successfully uploads the files to the server to the server 2> The server schedules running the comparison to the Java module running the comparison logic.

USE CASE MODELLING

Exceptions:	1> Overloading or unavailability of the server or the comparison module. a. The error is returned to the client showing indicating to restart the process.
--------------------	---

Case 5:

Use Case:	The system retrieve two files from different project
Primary Actor:	System
Goal in Context:	The goal is to return most similar files from different folder
Preconditions:	The compare button triggered by the user
Trigger:	The system send order for comparing from the client to the server
Scenario:	1> Once the client successfully uploads the files to the server 2> The server schedules running the extract keyword module and the comparison logic for keyword .
Exceptions:	1> Disconnection between client and server. This error will be returned to the client with error message which will let user re-click the function button.

Case 6:

Use Case:	The system sends email to Professor and Student
Primary Actor:	System
Goal in Context:	The goal is to notify Professor and Student if Plagiarism ids detected.
Preconditions:	The files uploaded to the server from the client and ready to process. Succesful run of Plagiarism Job of the system.
Trigger:	The successful upload of the files to the server from the client.
Scenario:	1> Server successfully get the uploaded files from client 2> The server schedules job for plagiarism detection based on newly uploaded files. 3> The system makes a note of the plagiarism result. 4> If the result is greater than threshold, Email is sent to Professor as well as Students.

USE CASE MODELLING

Exceptions:	1> Unable to analyze files. a. The error is returned to the client showing indicating to change upload files in supported version 2> Email Address provided is incorrect.
--------------------	---

Case 7:

Use Case:	CRUD on Courses and Assignments
Primary Actor:	Professor
Goal in Context:	Professor can create, update, read and delete Courses and Assignments.
Preconditions:	Semesters are already created in the database.
Trigger:	Clicking on the appropriate button for the appropriate CRUD operation.
Scenario:	1> Professor clicks on the appropriate button 2> UI gets shown to the Professor. 3> Professor performs the required action. 4> Data is updated front end and backend and a message is shown 5> Upon successful completion, a success message is shown to the professor.
Exceptions:	1> If any operation fails, appropriate error message is shown to the Professor.

Case 8:

Use Case:	CRUD on Semesters, Courses, Results and Assignments
Primary Actor:	Admin
Goal in Context:	Admin can create, update, read and delete Courses and Assignments.
Preconditions:	Semesters are already created in the database.
Trigger:	Clicking on the appropriate button for the appropriate CRUD operation.
Scenario:	6> Admin clicks on the appropriate button 7> UI gets shown to the Admin. 8> Admin performs the required action. 9> Data is updated front end and backend and a message is shown

USE CASE MODELLING

	10> Upon successful completion, a success message is shown to the Admin.
Exceptions:	2> If any operation fails, appropriate error message is shown to the Admin.

Case 9:

Use Case:	The Professor sends mail to Students
Primary Actor:	Professor
Goal in Context:	The goal is to notify Student if Plagiarism is detected.
Preconditions:	The files uploaded to the server from the client and ready to process. Successful run of Plagiarism Job of the system.
Trigger:	The successful upload of the files to the server from the client.
Scenario:	5> Professor clicks on Send Mail Button 6> Server successfully get the uploaded files from client 7> The server schedules job for plagiarism detection based on newly uploaded files. 8> The system makes a note of the plagiarism result. 9> If the result is greater than threshold, Email is sent Students.
Exceptions:	3> Unable to analyze files. a. The error is returned to the client showing indicating to change upload files in supported version 4> Email Address provided is incorrect.