Use Cases

Login

Use Case:	Access the system functionality by login into the system
Primary Actor:	Registered user
Goal in Context:	To access the system and its features through the portal on the internet.
Preconditions:	User must have an account in the system. User must have an internet connection.
Trigger:	The user decides to access the plagiarism application
Scenario:	The user visits the home page or login page of the application. The user enters his/her user Id The user enters his/her password The user clicks on login button
Exceptions:	User is not registered in the system Username is incorrect: User re-enters correct username Password is incorrect: User re-enters correct username Username or password left blank: User enters information Users is not able to enter correct username or password No internet connection available Users computer shuts down

The following fields are optional	
Priority:	Essential, must be implemented
When available:	Second increment
Status	Completed
Channel to actor:	Via browser and internet connection
Secondary Actor:	
Channels to Secondary Actors:	
Open Issues:	

Register

Use Case:	Request for access to the system
Primary Actor:	Unregistered student
Goal in Context:	To register or create an account so that system features can be accessed
Preconditions:	Student must not be already registered.
Trigger:	Student decides to access the plagiarism detection system to submit files
Scenario:	User goes to the home page User clicks on the register button User is taken to the register page User enters a username and password for identification User clicks on Register to submit his/her request
Exceptions:	Username already exists: User re-enters valid username Username validation is false: User re-enters valid username Password requirements not met: User re-enters valid password No internet connection User is not able to access the web application portal User computer shuts down

The following fields are optional	
Priority:	Moderate priority, to be implemented after basic functionality
When available:	Second increment
Status	Completed
Channel to actor:	Via browser and internet connection
Secondary Actor:	
Channels to Secondary Actors:	
Open Issues:	

Upload submission

Use Case:	To upload files for an assignment
Primary Actor:	Registered student
Goal in Context:	To submit multiple files for assignment in portal
Preconditions:	Student must be already registered.
Trigger:	Student decides to access the plagiarism detection system to submit assignment file
Scenario:	Student logs into the system Student is taken to his home page Student clicks on the assignment he wants to submit file for. Student is taken to the upload page for assignment Student clicks on choose files button and chooses multiple python files from his computer Student clicks on upload button to complete his submission
Exceptions:	Login failure: enter correct login details File to be uploaded cannot be uploaded No file uploaded in submission Wrong type of file uploaded No internet connection User is not able to access the web application portal User computer shuts down

The following fields are optional	
Priority:	Essential, must be implemented
When available:	Third increment
Status	Completed
Channel to actor:	Via browser and internet connection
Secondary Actor:	
Channels to Secondary Actors:	
Open Issues:	

Use Case:	To upload zip files for an assignment
Primary Actor:	Registered student
Goal in Context:	To submit zip files for assignment in portal
Preconditions:	Student must be already registered.
Trigger:	Student decides to access the plagiarism detection system to submit assignment file
Scenario:	Student logs into the system Student is taken to his home page Student clicks on the assignment he wants to submit file for. Student is taken to the upload page for assignment Student clicks on choose files button and chooses a zip file from his computer Student clicks on upload button to complete his submission
Exceptions:	Login failure: enter correct login details File to be uploaded cannot be uploaded No file uploaded in submission Wrong type of file uploaded No internet connection User is not able to access the web application portal User computer shuts down

The following fields are optional	
Priority:	Low Priority, to be implemented after basic functionality
When available:	Fourth increment
Status	Not started
Channel to actor:	Via browser and internet connection
Secondary Actor:	
Channels to Secondary Actors:	
Open Issues:	

Plagiarism Check

Use Case:	To compare files to detect code similarity for plagiarism check
Primary Actor:	Professor
Goal in Context:	To give two student submissions to the application for comparison to detect plagiarism
Preconditions:	Professor must be registered. Appropriate credentials must have been obtained. Professor must have student submissions he wants to compare.
Trigger:	Professor decides to run a plagiarism check on two student submissions for an assignment
Scenario:	Professor visits the web application portal. Professor logs into the application Professor is redirected to his home page Professor navigates to the assignment he wants to check for plagiarism Professor is shown the list of student submissions Professor selects two different submissions in Student1 and Student2 which are the student submissions to be compared Professor selects a comparison strategy Professor clicks on Compare button Professor is presented with the percentage match result
Exceptions:	Professor gets signed out Professor does not have any student submissions Internet connection lost Professor system powers off.

The following fields are optional	
Priority:	Essential, must be implemented
When available:	Second increment
Status	Completed
Channel to actor:	Via browser and internet connection
Secondary Actor:	
Channels to Secondary Actors:	
Open Issues:	

Use Case:	To choose strategy for comparing student submissions to detect plagiarism
Primary Actor:	Professor
Goal in Context:	To provide a strategy to the application for comparison to detect plagiarism
Preconditions:	Professor must be registered. Appropriate credentials must have been obtained. Professor must have student submissions he wants to compare.
Trigger:	Professor decides to run a plagiarism check on two student submissions for an assignment
Scenario:	Professor visits the web application portal. Professor logs into the application Professor is redirected to his home page Professor navigates to the assignment he wants to check for plagiarism Professor is shown the list of student submissions Professor selects two different submissions in Student1 and Student2 which are the student submissions to be compared Professor selects a comparison strategy Professor clicks on Compare button Professor is presented with the percentage match result
Exceptions:	Professor gets signed out Professor does not have any student submissions Internet connection lost Professor system powers off.

The following fields are optional	
Priority:	Moderate priority, to be implemented after basic functionality
When available:	Second increment
Status	Completed
Channel to actor:	Via browser and internet connection
Secondary Actor:	
Channels to Secondary Actors:	
Open Issues:	

View Report

Use Case:	To view report for Plagiarism check
Primary Actor:	Professor
Goal in Context:	To compare student submissions and view detailed comparison report
Preconditions:	Professor must have selected student submissions and compared
Trigger:	Professor decides to view detailed report for plagiarism check for two students
Scenario:	Professor visits the web application portal. Professor logs into the application Professor is redirected to his home page Professor navigates to the assignment he wants to check for plagiarism Professor is shown the list of student submissions Professor selects two different submissions in Student1 and Student2 which are the student submissions to be compared Professor clicks on Compare button Professor is presented with a detailed report of matching percentage of plagiarism found.
Exceptions:	Professor gets signed out Professor does not have any student submissions Internet connection lost Professor system powers off.

The following fields are optional	
Priority:	Moderate priority, to be implemented after basic functionality
When available:	Third increment
Status	Completed
Channel to actor:	Via browser and internet connection
Secondary Actor:	
Channels to Secondary Actors:	
Open Issues:	

Use Case:	To view and download detailed report for Plagiarism check
Primary Actor:	Professor
Goal in Context:	To compare student submissions and download detailed comparison report with matching code
Preconditions:	Professor must have selected student submissions and compared
Trigger:	Professor decides to download detailed report for plagiarism check for two students
Scenario:	Professor visits the web application portal. Professor logs into the application Professor is redirected to his home page Professor navigates to the assignment he wants to check for plagiarism Professor is shown the list of student submissions Professor selects two different submissions in Student1 and Student2 which are the student submissions to be compared Professor clicks on Compare button Professor is presented with a report of matching percentage of plagiarism found. Professor clicks on download detailed report Report with matching lines of code is downloaded
Exceptions:	Professor gets signed out Professor does not have any student submissions Internet connection lost Professor system powers off.

The following fields are optional	
Priority:	Low priority, to be implemented after basic functionality
When available:	Fourth increment
Status	Not started
Channel to actor:	Via browser and internet connection
Secondary Actor:	
Channels to Secondary Actors:	
Open Issues:	

Use Case:	To send an email with plagiarism results
Primary Actor:	Professor
Goal in Context:	To send the result of plagiarism check as an email after comparison
Preconditions:	Professor must be registered. Appropriate credentials must have been obtained. Professor must have student submissions he wants to compare. Comparison of the student submissions must have been completed.
Trigger:	Professor decides to email the result of a plagiarism check on two student submissions for an assignment
Scenario:	Professor visits the web application portal. Professor logs into the application Professor is redirected to his home page Professor navigates to the assignment he wants to check for plagiarism Professor is shown the list of student submissions Professor selects two different submissions in Student1 and Student2 to be compared Professor selects a comparison strategy Professor provides a valid email address to email the results Professor clicks on Compare button Professor is presented with the percentage match result Email is sent with the results to the given address
Exceptions:	Professor gets signed out Professor does not have any student submissions Email id does not exist Email system times out or encounters an error while sending email Internet connection lost

The following fields are optional	
Priority:	Moderate priority, to be implemented after basic functionality
When available:	Third increment
Status	Completed
Channel to actor:	Via browser and internet connection
Secondary Actor:	
Channels to Secondary Actors:	
Open Issues:	

Profile

Use Case:	To change password
Primary Actor:	Student or Professor
Goal in Context:	To change password for account
Preconditions:	User must be registered. Appropriate credentials must have been obtained.
Trigger:	User decides to change his/her password for the account
Scenario:	User visits the web application portal. User logs into the application User is redirected to his home page User clicks on Profile button User is presented with profile details User clicks on Change Password button User is asked to enter new Password User is asked to re-enter new Password User's password is changed
Exceptions:	User gets signed out User enters invalid password: User re-enters valid password Internet connection lost User's system crashes

The following fields are optional	
Priority:	Low priority, to be implemented after basic functionality
When available:	Fourth increment
Status	Not started
Channel to actor:	Via browser and internet connection
Secondary Actor:	
Channels to Secondary Actors:	
Open Issues:	