

## Use Cases for the Plagiarism Detection System.

### Use Case 1:

<b>Use Case:</b>	Sign-up
<b>Primary Actor:</b>	User
<b>Goal in Context:</b>	For a User to Sign-up
<b>Preconditions:</b>	<ol style="list-style-type: none"><li>1. Access to Internet.</li><li>2. A valid Email ID.</li><li>3. The actor's Email ID is not registered already.</li></ol>
<b>Trigger:</b>	The user wants to use the Plagiarism system.
<b>Scenario:</b>	<ol style="list-style-type: none"><li>1. User clicks on "Sign up" link button on home page</li><li>2. User is redirected to "Sign-Up" page</li><li>3. User enters his full name</li><li>4. User enters Email ID</li><li>5. User enters a Password</li><li>6. User selects his role, either as a TA or Professor.</li><li>7. User clicks on the "Create Account" button</li><li>8. System checks if the Email ID is valid and not already in use</li><li>9. System registers the User as a TA or Professor.</li></ol>
<b>Exceptions:</b>	<ol style="list-style-type: none"><li>1. <u>The user is already registered</u><ul style="list-style-type: none"><li>• System generates error message prompting the user to Login or register with different Email ID.</li></ul></li><li>2. <u>Invalid Email ID is entered.</u><ul style="list-style-type: none"><li>• System generate error message prompting the user to enter a valid Email ID.</li></ul></li></ol>

## Use Case 2:

<b>Use Case:</b>	Login
<b>Primary Actor:</b>	TA or Professor
<b>Goal in Context:</b>	For the TA or Professor to Login into the system.
<b>Preconditions:</b>	<ol style="list-style-type: none"><li>1. Access to Internet.</li><li>2. Existing registered Email ID.</li></ol>
<b>Trigger:</b>	The user wants to use the Plagiarism system.
<b>Scenario:</b>	<ol style="list-style-type: none"><li>1. User clicks on "Login" button on home page</li><li>2. User is redirected to "Login" page</li><li>3. User enters his registered Email ID</li><li>4. User enters a Password</li><li>5. User clicks on the "Login" button</li><li>6. System checks if the Email ID is valid and not already in use</li><li>7. System registers the User as a TA or Professor.</li></ol>
<b>Exceptions:</b>	<ol style="list-style-type: none"><li>1. <u>The user is not registered</u><ul style="list-style-type: none"><li>• System generates an error message prompting the user to Sign-up.</li></ul></li><li>2. <u>Invalid Email ID is entered.</u><ul style="list-style-type: none"><li>• System generates an error message prompting the user to enter a valid Email ID.</li></ul></li><li>3. <u>Invalid Password entered.</u><ul style="list-style-type: none"><li>• System generates an error message prompting the user to enter the right password.</li></ul></li></ol>

### Use Case 3:

<b>Use Case:</b>	Upload_Files_From_Desktop
<b>Primary Actor:</b>	TA or Professor
<b>Goal in Context:</b>	For the TA or Professor to run Plagiarism checks
<b>Preconditions:</b>	<ol style="list-style-type: none"><li>1. Access to Internet.</li><li>2. Should have logged into the system.</li></ol>
<b>Trigger:</b>	The TA/Professor wants to run Plagiarism check on a number of files.
<b>Scenario:</b>	<ol style="list-style-type: none"><li>1. User clicks on “Upload Files” button.</li><li>2. User selects the files he has to upload from his personal computer.</li><li>3. After the files are uploaded, User clicks on the “Compare” button.</li></ol>
<b>Exceptions:</b>	<ol style="list-style-type: none"><li>1. <u>File Size exceeds.</u><ul style="list-style-type: none"><li>• System generates an error message prompting the user to select files within the size limit.</li></ul></li></ol>

#### Use Case 4:

<b>Use Case:</b>	Upload_Folder_From_Desktop
<b>Primary Actor:</b>	TA or Professor
<b>Goal in Context:</b>	For the TA or Professor to run Plagiarism checks
<b>Preconditions:</b>	<ol style="list-style-type: none"><li>1. Access to Internet.</li><li>2. Should have logged into the system.</li></ol>
<b>Trigger:</b>	The TA/Professor wants to run Plagiarism check on a number of files.
<b>Scenario:</b>	<ol style="list-style-type: none"><li>1. User clicks on “Upload Folder” button.</li><li>2. User selects the folder he has to upload from his personal computer.</li><li>3. After the folder is uploaded, User clicks on the “Compare” button.</li></ol>
<b>Exceptions:</b>	<ol style="list-style-type: none"><li>1. <u>Folder Size exceeds.</u><ul style="list-style-type: none"><li>• System generates an error message prompting the user to select a folder within the size limit.</li></ul></li></ol>

### Use Case 5:

<b>Use Case:</b>	View_past_reports
<b>Primary Actor:</b>	Professor or TA
<b>Goal in Context:</b>	Extract Plagiarism Reports.
<b>Preconditions:</b>	<ol style="list-style-type: none"><li>1. Access to Internet.</li><li>2. Should have run at least one plagiarism checks.</li></ol>
<b>Trigger:</b>	The Professor or TA wants to view previous plagiarism reports.
<b>Scenario:</b>	<p>For Professor:</p> <ol style="list-style-type: none"><li>1. User clicks on “View Past Reports” button.</li><li>2. A new page with all the list of Report links is opened.</li></ol> <p>For TA:</p> <ol style="list-style-type: none"><li>1. Past reports can be viewed on the homepage of the system.</li></ol>
<b>Exceptions:</b>	<ol style="list-style-type: none"><li>1. <u>No Plagiarism checks run before.</u><ul style="list-style-type: none"><li>• System generates an error message prompting the user to run at least one plagiarism checks before viewing reports.</li></ul></li></ol>

### Use Case 6:

<b>Use Case:</b>	View_current_report
<b>Primary Actor:</b>	TA or Professor
<b>Goal in Context:</b>	For the TA or Professor to check plagiarism reports.
<b>Preconditions:</b>	<ol style="list-style-type: none"><li>1. Access to Internet.</li><li>2. User should be logged in.</li><li>3. At least two files should be uploaded.</li></ol>
<b>Trigger:</b>	The TA/Professor wants to view reports of the current plagiarism check.
<b>Scenario:</b>	<ol style="list-style-type: none"><li>1. User clicks on “Check for Exact Match” or “Check for Similar Files”.</li><li>2. After the Plagiarism check is completed on the uploaded files, a new window opens with checked files.</li><li>3. User clicks on “View Report” button.</li><li>4. A new page with all the list of Report links is opened.</li></ol>
<b>Exceptions:</b>	<ol style="list-style-type: none"><li>1. <u>No Plagiarism checks run before.</u><ul style="list-style-type: none"><li>• System generates an error message prompting the user to run a plagiarism check.</li></ul></li></ol>

### Use Case 7:

<b>Use Case:</b>	View_TA_Reports
<b>Primary Actor:</b>	Professor
<b>Goal in Context:</b>	For the Professor to view reports generated by the TAs.
<b>Preconditions:</b>	<ol style="list-style-type: none"><li>1. Access to Internet.</li><li>2. TAs Should have run at least one plagiarism check.</li><li>3. Professor should have selected at least one TA from the list.</li></ol>
<b>Trigger:</b>	The Professor wants to view past reports generated by TAs.
<b>Scenario:</b>	<ol style="list-style-type: none"><li>1. Professor selects TAs from the list provided.</li><li>2. Professor clicks on “View TA Reports</li></ol>
<b>Exceptions:</b>	<ol style="list-style-type: none"><li>1. <u>No Plagiarism checks run before.</u><ul style="list-style-type: none"><li>• System generates an error message prompting the user to run a plagiarism check.</li></ul></li><li>2. <u>No TA selected</u><ul style="list-style-type: none"><li>• System generates an error message prompting the user to choose at least one TA.</li></ul></li></ol>

### Use Case 8:

<b>Use Case:</b>	Check_for_Similar_match
<b>Primary Actor:</b>	TA or Professor
<b>Goal in Context:</b>	For the Professor or TA to view files plagiarism.
<b>Preconditions:</b>	<ol style="list-style-type: none"><li>1. Access to Internet.</li><li>2. User should be logged in.</li><li>3. At least two files should be uploaded.</li></ol>
<b>Trigger:</b>	The Professor or TA wants to check plagiarism across files.
<b>Scenario:</b>	<ol style="list-style-type: none"><li>1. User clicks on “Uploads Files” or “Uploads Folders”.</li><li>2. An explorer opens, and the user selects the folder or files to compare.</li><li>3. After the files or folder is uploaded, user clicks on “Check for similar files” button.</li><li>4. After the Plagiarism check is completed on the uploaded files, a new window opens with random ordering of files.</li></ol>
<b>Exceptions:</b>	<ol style="list-style-type: none"><li>1. <u>No Files with Similar Match found.</u><ul style="list-style-type: none"><li>• The user is prompted with a message, “No Files with Matches found”.</li></ul></li></ol>



### **Use Case 9:**

<b>Use Case:</b>	Check_for_Exact_match
<b>Primary Actor:</b>	TA or Professor
<b>Goal in Context:</b>	For the Professor or TA to view files with 100% match.
<b>Preconditions:</b>	<ol style="list-style-type: none"><li>1. Access to Internet.</li><li>2. User should be logged in.</li><li>3. At least two files should be uploaded.</li></ol>
<b>Trigger:</b>	The Professor or TA wants 100% matched files.
<b>Scenario:</b>	<ol style="list-style-type: none"><li>1. User clicks on “Uploads Files” or “Uploads Folders”.</li><li>2. An explorer opens, and the user selects the folder or files to compare.</li><li>3. After the files or folder is uploaded, user clicks on “Check for exact files” button.</li></ol>
<b>Exceptions:</b>	<ol style="list-style-type: none"><li>1. <u>No Files with Exact Match found.</u><ul style="list-style-type: none"><li>• The user is prompted with a message, “No Files with Exact Matches”.</li></ul></li></ol>

### Use Case 10:

<b>Use Case:</b>	Sort/Filter_Reports
<b>Primary Actor:</b>	TA or Professor
<b>Goal in Context:</b>	For the actor to view files sorted or filtered according to matched percentage.
<b>Preconditions:</b>	<ol style="list-style-type: none"><li>1. Access to Internet.</li><li>2. At least one plagiarism check should be completed.</li><li>3. User clicks on “Check for similar files”</li></ol>
<b>Trigger:</b>	The user wants to view files sorted or filtered on matched percentage.
<b>Scenario:</b>	<ol style="list-style-type: none"><li>1. User clicks on “Uploads Files” or “Uploads Folders”.</li><li>2. An explorer opens, and the user selects the folder or files to compare.</li><li>3. After the files or folder is uploaded, user clicks on “Check for similar files” button.</li><li>4. After the Plagiarism check is completed on the uploaded files, a new window opens with random ordering of files.</li></ol> <p>To Sort:</p> <ol style="list-style-type: none"><li>1. User selects “Sort – Low to High” or “Sort- High to Low”</li><li>2. Files are ordered from highest matched to lowest match on “Sort- High to low” and from lowest matched to highest match on “Sort- Low to High”</li></ol> <p>To Filter:</p> <ol style="list-style-type: none"><li>3. User can filter files according matched percentage, such as &gt;85%, &gt;70% so on.</li></ol>
<b>Exceptions:</b>	<ol style="list-style-type: none"><li>1. <u>No Plagiarism checks run before.</u><ul style="list-style-type: none"><li>• System generates an error message prompting the user to run a plagiarism check.</li></ul></li></ol>

### Use Case 11:

<b>Use Case:</b>	Email_Plagiarism_Report
<b>Primary Actor:</b>	TA or Professor
<b>Goal in Context:</b>	For the actor to email the reports
<b>Preconditions:</b>	<ol style="list-style-type: none"><li>1. Access to Internet.</li><li>2. User should be logged in.</li><li>3. At least two files should be uploaded.</li></ol>
<b>Trigger:</b>	The Professor or TA wants to email generated reports.
<b>Scenario:</b>	<ol style="list-style-type: none"><li>1. User clicks on “Check for Exact Match” or “Check for Similar Files”.</li><li>2. After the Plagiarism check is completed on the uploaded files, a new window opens with checked files.</li><li>3. User clicks on “Email Report”.</li><li>4. The report is mailed to the user’s registered Email ID.</li></ol>
<b>Exceptions:</b>	<ol style="list-style-type: none"><li>1. <u>Email not sent</u><ul style="list-style-type: none"><li>• The user will be prompted with “Resend email” message.</li></ul></li><li>2. <u>File not attached properly.</u><ul style="list-style-type: none"><li>• The user will be prompted with “Resend email” message.</li></ul></li><li>3. <u>File size limit exceeded.</u><ul style="list-style-type: none"><li>• The user will be prompted with “File size exceeded” message.</li></ul></li></ol>

### **Use Case 12:**

<b>Use Case:</b>	Download_Plagiarism_Report
<b>Primary Actor:</b>	TA or Professor
<b>Goal in Context:</b>	For the actor to download generated plagiarism reports.
<b>Preconditions:</b>	<ol style="list-style-type: none"><li>1. Access to Internet.</li><li>2. At least one Report should be generated.</li></ol>
<b>Trigger:</b>	The Professor or TA wants to download reports generated.
<b>Scenario:</b>	<ol style="list-style-type: none"><li>1. After the Plagiarism check is completed on the uploaded files, a new window opens with checked files.</li><li>2. User clicks on “Download Report”.</li><li>3. The report is downloaded.</li></ol>
<b>Exceptions:</b>	<ol style="list-style-type: none"><li>1. <u>Download Failure</u><ul style="list-style-type: none"><li>• The user should re-try downloading files.</li></ul></li></ol>

### Use Case 13:

<b>Use Case:</b>	Delete_User
<b>Primary Actor:</b>	Admin
<b>Goal in Context:</b>	To delete users.
<b>Preconditions:</b>	<ol style="list-style-type: none"><li>1. Access to Internet.</li><li>2. At least one user should be registered in the system.</li></ol>
<b>Trigger:</b>	The user is inactive for over a year; The user was a malicious user.
<b>Scenario:</b>	<ol style="list-style-type: none"><li>1. Admin logs into the system with admin credentials.</li><li>2. Admin clicks on “Delete User” button.</li><li>3. A new page with a list of all users is opened.</li><li>4. The admin has to select users to be deleted.</li><li>5. Click on “Delete” to permanently delete the users.</li></ol>
<b>Exceptions:</b>	<ol style="list-style-type: none"><li>1. <u>Database connectivity issues.</u><ul style="list-style-type: none"><li>• The admin is prompted to re-try Deleting the Users.</li></ul></li></ol>

### Use Case 14:

<b>Use Case:</b>	Delete_Files
<b>Primary Actor:</b>	Admin
<b>Goal in Context:</b>	To delete users.
<b>Preconditions:</b>	<ol style="list-style-type: none"><li>1. Access to Internet.</li><li>2. At least one file should be uploaded in the system.</li></ol>
<b>Trigger:</b>	The system is running out of memory.
<b>Scenario:</b>	<ol style="list-style-type: none"><li>1. Admin logs into the system with admin credentials.</li><li>2. Admin clicks on “Delete Files” button.</li><li>3. A new page with a list of all files is opened.</li><li>4. The admin has to select files to be deleted.</li><li>5. Click on “Delete” to permanently delete the files.</li></ol>
<b>Exceptions:</b>	<ol style="list-style-type: none"><li>1. <u>Database connectivity issues.</u><ul style="list-style-type: none"><li>• The admin is prompted to re-try Deleting the Files.</li></ul></li></ol>

### **Use Case 15:**

<b>Use Case:</b>	Delete_Reports
<b>Primary Actor:</b>	Admin
<b>Goal in Context:</b>	To delete Reports.
<b>Preconditions:</b>	<ol style="list-style-type: none"><li>1. Access to Internet.</li><li>2. At least one file should be uploaded in the system.</li></ol>
<b>Trigger:</b>	The system is running out of memory.
<b>Scenario:</b>	<ol style="list-style-type: none"><li>1. Admin logs into the system with admin credentials.</li><li>2. Admin clicks on “Delete Reports” button.</li><li>3. A new page with a list of all reports is opened.</li><li>4. The admin has to select reports to be deleted.</li><li>5. Click on “Delete” to permanently delete the files.</li></ol>
<b>Exceptions:</b>	<ol style="list-style-type: none"><li>1. <u>Database connectivity issues.</u><ul style="list-style-type: none"><li>• The admin is prompted to re-try Deleting the Reports.</li></ul></li></ol>