Case 1:

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| **Use Case:** | User loads both the project files into the system |
| **Primary Actor:** | User |
| **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 user 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    1. The user can reload the webpage after the connection is reestablished 2. The upload of the files fails.    1. The user can follow the use case 2 for the steps that can followed. 3. The parsing of the files fails.    1. The user can follow the use case 2 for the steps that can followed |

Case 2:

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| **Use Case:** | Error in uploading or parsing the input files |
| **Primary Actor:** | User |
| **Goal in Context:** | The goal is to upload the project or file that has failed the validation or parsing during the into stage |
| **Preconditions:** | The upload step of project is performed prior to this step |
| **Trigger:** | The failure of upload/validation/parsing of files. |
| **Scenario:** | 1. The files upload fails. 2. Error message is displayed for the user to acknowledge 3. The reload files option is provided for the user to reload the files or correct the error in a specific file. 4. The files can be reloaded |
| **Exceptions:** | 1. If this step fails of reloading. The user has to restart the entire process of uploading the file ‘Case 1’ |

Case 3:

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| **Use Case:** | Generate the score or start comparison |
| **Primary Actor:** | User |
| **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 user |
| **Scenario:** | 1. The ‘start comparison’ button is triggered by the user 2. The comparison is run at the server and score is returned |
| **Exceptions:** | 1. I there is error in processing the comparison, error code is returned   Based on which the entire process has to be restarted |

Case 4.

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