Use Cases

1. File Handler

* Description:

File handler for the MLA application.

* Pre-conditions  
  + The MLA application has loaded.
  + The User has pre-made text documents for the quizzes, which are correctly formatted.
* Main Flow:

1. The User clicks on the ‘choose file’ button
2. The App creates the ‘open’ dialogue
3. The User selects a file
4. The File Handler determines that the file has changed
5. The File Handler determines that the file is a .txt file (A1)
6. The File Handler reads the text from the file
7. The File Handler determines that the file is formatted correctly (A2, A3)
8. The App displays the ‘start the quiz’ button

* Alternate Flows:  
  + A1:

1. The File Handler determines that the file is not a .txt file
2. The App displays a notification that the file is not a .txt file (E1)
3. The User starts the Main Flow again
   * A2:
4. The File Handler determines that the file cannot be converted into a quiz
5. The App displays a notification that the file is not formatted correctly (E1)
6. The User starts the Main Flow again
   * A3:
7. The File Handler determines that the file does not have a title
8. The App displays a notification that the file doesn’t have a title (E1)
9. The User starts the Main Flow again

* Exception Flows:  
  + E1:

1. The User closes the App
2. The Use Case terminates

* Post Conditions:  
  + A correctly formatted .txt file has been loaded
  + The User has the option to begin the quiz, or to change the quiz.

1. Local Storage

* Description:

The App takes the results of a finished Quiz and updates the Local Storage

* Pre-conditions:  
  + The User has finished a Quiz
* Main Flow:

1. The App displays the div element ‘spanResults’, displaying an input for the User to enter their name (E1)
2. The User enters their name, and hits the ‘Submit’ button
3. The App determines that the User has entered a name (A1)
4. The App creates an array of the completed Quiz, inputting the Title of the Quiz, the number of correct answers, the time the User took to complete the Quiz, and the submitted Username
5. The App retrieves the history of the past Quizzes with the same Title from local storage (A2)
6. The App pushes the recently completed Quiz’ history onto the retrieved array
7. The App stores this two-dimensional array back into local storage

* Alternate Flows:  
  + A1:

1. The App determines that the ‘name’ field is blank when the User presses the submit button
2. The App notifies the User that the field is blank (E1)
3. To Main Flow ii)  
   * A2:
4. The App determines that there is no prior history of the Quiz in local storage
5. The App creates a blank two-dimensional array
6. To Main Flow vi)

* Exception Flows:
  + E1:

1. The User does not hit the submit button
2. The Use Case terminates

* Post Conditions:  
  + The Local Storage element has been updated with the latest quiz results
  + The User has the option to view the history of the Quiz, view the leader board of the Quiz, restart the Quiz, or change the Quiz