**Iteration** **1**

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1. **Use Case:** 
   1. File Upload
      1. Actor: User
      2. Scenario: User gives JSON file to the program for analysis.
      3. Alternative Scenario: File is invalid or exceeds size limit, give error message and give the opportunity to submit again.
   2. Output Fields
      1. Actor: User
      2. Scenario: After a successful upload, the user is directed through the menu for output fields
      3. Alternative Scenario: If the file upload fails or the user navigates away, ensure the system retains the uploaded file state temporarily.
   3. Data Fetching
      1. Actor: User
      2. Scenario: User utilizes interface controls within the interaction menu to fetch specific data, including entry counts and keyword searches.
      3. Alternative Scenario: If the data fetch operation encounters an error or the requested data is not found, provide feedback to the user and guide them on possible actions.
   4. Reset Functionality
      1. Actor: User
      2. Scenario: User initiates a reset action to go back to the initial state for uploading a new file.
      3. Alternative Scenario: Ensure all temporary data is cleared upon reset and provide confirmation to the user.
2. **UML Use Case Diagram:**

**A screen shot of a computer

Description automatically generated**

1. **UML Class Diagram:**

