System and Unit Test Report

Personal Knowledge Engine

Personal Knowledge Engineers

11/27/21

**System Report:**

**Sprint 1:**

User Story 1: As a student, I want to be able to search through a single file for keywords so I can find important information.

User Story 2: As a student/teacher, I want to be able to search through multiple files for keywords, so I don’t have to search files individually.

User Story 3: As a user, I want to be able to restrict my search to certain file types, or to specific folders, so the search is quicker.

* **Testing Scenario:**
  + Open Personal Knowledge Engine, type:
  + Search term, “a”
  + Path included: “C:\Users\nrcan\Desktop\School Stuff\CSE 115A\PKE\tests”
  + Press enter
    - The user should see the results appear for the search in the given test folder.
    - This test is run with the bare minimum input viable to successfully run the program
    - In the search results box, the left hand side should show a button with the file name that returned a hit, and the left should be a short context about the hit, including a bolded term, and a line number of the search result hit.
    - Above these search hits should be a short header that shows the inputs used for that search.

**Sprint 2:**

User Story 1: As a first time user, I want the search function to have an understandable and organized user interface so that I know where information was found and how I can access it.

User Story 2: As a visual person, I want to have some visual feedback that a search is in progress so that I don’t waste time waiting for a search that isn’t in progress.

User Story 3: As someone who makes mistakes, I want to be able to cancel a search before it completes so that I can modify it or avoid wasting time finding information that I don’t need.

* **Testing Scenario:**
  + Open Personal Knowledge Engine, type:
  + Search term, “a”
  + Path included: “C:\Users\nrcan\Desktop”
  + Press enter
    - While the search is running (which should take some time, given the large base directory), the ‘start search’ button should be replaced with a ‘cancel search’ button.
  + Press ‘cancel search’
    - The search should stop generating results, while keeping already generated results.

**Sprint 3 & 4:**

Sprint 3 User Story 1: As a user, I want to change which specific files or file types I search through so that my results can be more tailored to my search.

* **Testing Scenario** (continued from Sprint 2 testing scenario):
  + Change path included: “C:\Users\nrcan\Desktop\School Stuff\CSE 115A\PKE\tests”
  + Add .py to Extensions Included
  + Press enter
    - Of the test files in PKE\tests, only the .py file should be searched. This overwrites the default Extensions Included value of all extensions.
  + Change path included: “C:\Users\nrcan\Desktop\School Stuff\CSE 115A”
  + Add “C:\Users\nrcan\Desktop\School Stuff\CSE 115A\PKE” to Paths Excluded
  + Press Enter
    - The results should show all hits for the search term, but should show none from the directory or any subdirectory of \PKE\.
  + Press ‘Clear Search’
    - This should delete all previous search results.

Sprint 3 User Story 2: As a user, I want to change which specific files or file types I search through so that my results can be more tailored to my search.

Sprint 3 User Story 3: As a user, I want to be able to update the results for my past searches without having to retype them.

Sprint 4 User Story 2: (2) As a user, I want to see previews of the searched term as it appears in the result files so that I know which files contain useful information.

Sprint 4 User Story 4 (1) As a power user with lots of file types in my directories I want to be able to search all of them.

* **Testing Scenario:** 
  + Open Personal Search Engine, type:
  + Search term: “num”
  + Path included: PycharmProjects/Project3/Player1.py
  + Include an editor path by inputting the whole file path to a .exe file. Any other inputs are rejected. (Example: notepad)
  + Extension included: py
  + Press enter
    - The user should see the key term bolded, and the line itself shortened to only the first instance of the key term and the next words after that.
    - You can click the search result and it will open the result in the editor you picked.
    - Programs that initialize with no editor cause the search results to not open to anything when clicked.
    - Current editor is displayed to the right of the editor path input box.
    - Current editor is saved at the start of each search.