Sprint 3 Plan

Personal Knowledge Engine

PKE Engineers

Sprint Completion Date:

Revision 1 11/6/2021

Sprint Goal: ease of use.

Task Listing:

* User Story 1:

(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.

* + Task 1: Add a text box to choose what paths should be excluded from the search (Jason)
  + Task 2: Add a text box to choose what file extensions should be included in the search (Jason)
  + Task 3: Connect the above GUI inputs to the search function (Weston)
* 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.

* + Task 1: If a file’s context is too overwhelming, it should be shortened to show only some of the context on each side of the term (Cole)
  + Task 2: The key term(s) should be made more prominent, with bold or some other highlighting (Jason)
* User Story 3:

(1) As a user, I want to be able to update the results for my past searches without having to retype them.

* + Task 1: store a list of past search strings, included paths, included file extensions, and excluded files (Noah)
  + Task 2: add a menu to the GUI that allows the user to select a search from the history (maybe a dropdown menu next to the search bar or using up/down arrow keys) (Anu)
  + Task 3: allow the user to load a previous search’s criteria into the text boxes on the main screen
* User Story 4:

(5) As a user, I want my files to open to a relevant area when I click on them in the search results.

* + Spike 1: find out whether it’s possible to open a file to a specific seek point
  + Task 1: allow the user to register the path to a text editor on their system (Rodger)
  + Task 2: add a clickable item to the GUI that appears with every search result that uses the text viewer/editor to open the file (Rodger)
* User Story 5:

(8) As a user, I want to be able to search using natural language, or text outside of the exact terms I want to find.

* Spike 1: Researching NLP, identify off-the-shelf method
* Spike 2: locate a set of pretrained word embeddings (Weston)
* Task 1: use pretrained word embeddings to add an additional matching layer to the search by comparing the embeddings of the search terms with the embeddings of every term in a searched file (Weston)
* Task 2: allow the user to disable/enable embedding-based search to decrease search overhead (Weston)
* Task 3 (stretch): when embedding search is enabled, show some indication of which terms in the search bar have trained embeddings
* User Story 6:

(3) As a user, I want to be able to refresh my search history of search terms to start searching new terms afresh.

* Implement a Clear button. (Anu)
* Implement a “clear” functionality. (Anu)

Team roles:

Anupreet Singh : Developer

Weston Cook: Product Owner, Scrum Master, Developer

Noah Cantwell: Developer

Cole Anderson: Developer

Rodger Wang: Developer

Jason Zheng: Developer

Initial Task Assignment:

(User Story, Task)

Anupreet Singh: User Story 3 , task 2

Weston Cook: User story 5, spike 2, tasks 1-2

Noah Cantwell: User story 3, task 1

Cole Anderson: User story 2, task 1

Rodger Wang: User story 4, task 1 + 2

Jason Zheng: User Story 1, task 1+2

Scrum Board:

[Jira](https://personalknowledgeengine.atlassian.net/jira/software/projects/PKE/boards/1)

Scrum Times:

Mondays: 8:30-9:30 PM

Wednesdays: 8:30-9:30 PM

Saturdays: 4-5 PM

