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CSCE 240

Project 2 - Processor Documentation

My project 2 code takes the output of my project 1 files and uses it to answer questions regarding scabies. When I coded project one, I decided to indent answers to questions. I used this pattern to match my data files. Lines that did not begin with "\n\t" were categorized as 'questions', lines that did begin with "\n\t" were categorized as 'answers'. To store these items, I created a class called QnA. QnA contains a QnA object that takes a 'question' and an 'answer' from the pattern matching system. QnA also includes set and get methods for both questions and answers, as well as a toString method that compiles answers. Additionally, QnA contains ways to be used when an answer or question is missing — making it able to add those elements later. These QnA objects were kept track of by a linked list called qnAs.

To help me with my pattern matching, I used information from w3schools at https://www.w3schools.com/java/java_regex.asp.

In my driver, I handled user queries by searching for keywords in their input. For example, if a user asks "Is there a cure for scabies?", "cure" will be picked out as a keyword. Each keyword corresponds to one or more QnA objects that are able to answer the question. Once the keyword is picked out by the program, the answer portion of the QnA object/objects are returned. The program prioritizes data from the CDC and uses WebMD as a secondary

option. When multiple QnA objects are available to answer the user, the CDC associated one will be displayed. The system will then ask the user if they'd like more information . If the user does want more information, the WebMD answer will be shown.

Currently, my program relies too much on brute force to be adequately adaptable. In future projects, I'd like to find a way to fix this and improve my code.