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CSCE 240

Prog5 -Session Logger Documentation

For this project, I decided that it would be best to separate the statistics reporting and the chatbot UIs. Starting with the changes to the chatbot, I used FileWriter to write each of the user's and system's utterances to a file under chat_sessions. Each file was labeled with the date and time (24 hour system). For clarity, each of the user's and system's utterances were also labeled with the date and time inside of the log file in this format:

20230406_171934:User Input:<INSERT USER INPUT>

20230406_165314:System Output:<INSERT SYSTEM OUTPUT>

Before the program ends, it also updates chat_statistics.csv in the data folder with all of the info about the session. This includes calculating the file's serial number, file name, number of user utterances, number of system utterances, and the runtime duration in seconds.

To help me format and calculate runtime properly, I used

<https://stackoverflow.com/questions/5204051/how-to-calculate-the-running-time-of-my-program>

Moving on to my session analysis, I created a sessionData class (located in prog5-sessionlogger/src/session analyzing) to respond to log statistics questions. For every method in that class, I used a BufferedReader to turn the relevant column of the CSV file into an array. For the methods that addressed a single session, I searched the first column for the

corresponding serial number of the session and returned that session's data row. For the total statistic calculations, I looped through all rows and added them together.

I made this session data available to the user with my statsUI class (located in `prog5-sessionlogger/src/session analyzing/statsUI.java`). I chose to do a menu format with numbered options – I felt that it would be the clearest way to present the info. Examples of runthrough of the statsUI can be found in the “test” folder.