CMPUT 291 Mini Project 2 Report

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1 Project Overview

This program utilizes an online MongoDB NoSQL database to store data for posts, votes, and tags. The user interacts with the system by selecting options displayed on screen in each state.

Upon start up, the user may choose to enter a numeric user id. If the user id is valid (contains only numbers), a user report is generated which outlines the number of questions and answers the given user has posted, along with their average scores, then displays the total votes the user has made. Otherwise if a user id was not provided or if the user id is invalid, the program proceeds to the main menu.

In the main menu, the user has the option to post a question, search for questions, or exit the program. In posting a question, the user is asked to enter a title, body, and tags for the post. Upon finishing, the user is taken to view the newly posted question with all its newly generated data that is stored in the database. From there, several options are presented to the user: answer the question, list all answers to the question, vote on the question, and return to the main menu. Answering the question will have an extra line appear to prompt the user to write an answer to the question, to which once the user is finished, will take the user to view the answer indivudally. The answer view shows the original question of which the answer is responding to, along with the answer itself as well as two actions the user can take: vote or return to main menu.

When the user selects list answers from the question screen, a new table will be displayed on a new screen that shows the accepted answer first (if any exists), and then other answers to the question. The user can select any of the answers listed by their number and go to view the answer individually.

When the user selects the vote action on a question or answer in focus, the score of the post wil increment by 1 if the user is logged in and has not previously voted on the post already. Users who did not provide a user id at the login screen are free to vote without constraint on the post.

If the user chooses to search questions, they will be first prompted to enter keywords delimited by spaces. Upon pressing enter, a table of search results will be displayed in pages of 5. The user can select any of the questions by their numbers in the results or select the see more option to display the next page of search results. The user may also choose to return to menu on the search results page.

2 Running Instructions

This project requires the blessed python module: pip3 install blessed cd phase1 python3.5 phase1.py cd ../phase2 python3.5 main.py

- 3 Design
- 4 Testing Strategy
- 5 Groupwork Breakdown

The group coordinated through WhatsApp direct message, and code was hosted in a private GitHub repository.

\bullet Cynthia

- Time estimate: 10 hours
- Designed user flow
- Implemented most states
- Created user interface
- Co-authored the report document

\bullet Michael

- Time Estimate: 15 hours
- Wrote all of database.py
- Unit tests in tests.py and corresponding test data
- Implemented the list answers and some of search states
- Co-authored the report document