WebSQL 2.0

Sponsor: Prof. Amelia Read, CS Assistant Teaching Professor

Gain software engineering experience improving the WebSQL tool used in CSCI 403 database management!

The WebSQL tool enables students to engage in interactive class activities and avoid the dreaded command line. We'd like to make it an even better experience, and we can with your help!

Current students and instructors have identified some improvements that would help; from usability to additional functionality to a security review, it's all interesting work to engage in.

Tasks:
- Work with the sponsor to prioritize improvements
- Identify additional improvements for this or future projects
- Implement identified improvements as agreed with the sponsor

Skills:
- The project uses Vue, a JavaScript UI framework for the client-side, and Python Flask for the server side. Familiarity with HTML, JavaScript, and Python are useful.
- Some enhancements require knowledge of SQL; having someone on the team who has taken CSCI 403 would be a bonus.
- An interest in HCI is useful, since this is very much a human-computer interaction enabling tool.
- The project is hosted on GitHub, knowledge of Git and GitHub are useful or will be gained during the project.

What success in this project looks like:
- Priority list of improvements compiled for and approved by the project sponsor
- Successfully implementing the identified highest-priority features to the satisfaction of the project sponsor
- Fame and glory among future CSCI 403 students for providing them with an excellent database access experience!

For more information, contact Prof. Read at read@mines.edu