

# WEB VERSION OF TRUE COLORS ASSESSMENT

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## ABSTRACT

Moravian University's computer science department offers a course titled "*Preparing For A Computing Career*". Near the beginning of this course, a personality assessment called "True Colors" is distributed to the students enrolled in the course. In our *Web Programming* course, we created a web version of this assessment that automatically scores the results and allows users to save and retrieve their results.

This application was built as a client-server application where the user interacts with the quiz via a web interface. When the user is done with the quiz, they are sent to a page with the results. The questions that the user answers are stored in a MariaDB database, and JavaScript is used to dynamically display the questions. In addition, JavaScript is used for scoring, and once the user finishes the test, their result is saved into the database along with a unique user id. JavaScript also has a feature called LocalStorage, which we utilized throughout in order to maintain the user's progress in the test so they don't have to finish the quiz in one sitting. We implemented the server using Flask and deployed it on an Amazon EC2 Instance.