CS 405

Module 4 Assignment Exceptions

01/16/2025

Caleb Ewer

For this assignment I a customException class derived from std::exception. This class overrides the what() method to provide a meaningful error message. In the “do\_even\_more\_custom\_application\_logic” method, I simulated an error by throwing a std:runtime\_error to demonstrate handling standard exceptions. In the “do\_custom\_application\_logic” I wrapped in a try-cathc block, explicitly caught std::exception to handle any standard exceptions and printed the error message, and threw the custom exception to demonstrate how to catch and handle it in main. In the division functionality, I added a check for divide-by-zero in the divide function and threw a std::logic\_error if the denominator was zero. I then used a try-catch block in do\_division to handle exceptions thrown by divide. Lastly I added a try-catch block around the entire main function to handle custom exceptions like standard exceptions and I added a catch-all handler for any other uncaught exceptions.

A screenshot of a computer

Description automatically generated