CS 405

Milestone 4

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In this milestone I worked on creating test cases. I started with the base structure provided in the template. I then implemented additional test cases as required. I used GoogleTest for creating and running the tests. The following tests were completed:

* Verify initialization of the collection.
* Tested adding elements in different scenarios.
* Ensured collection behaviors for resizing, clearing, and reserving capacity.
* Implemented exception handling for std::out\_of\_range.
* Added custom positive and negative tests for additional scenarios.

After implementing the tests, I built and ran the tests in Visual Studio to confirm all passed successfully. Below is the screenshot of the test results.

A screenshot of a computer program

Description automatically generated