Cpt\_S 422 Report

This report will explain the test cases used in all of the classes involved with this project. There will be 2 sections for this report. Halstead checks, and other checks. Since there were two categories of code there will be two categories of tests.

**Halstead:**

Each test on each class has tested every single method within the class. Each one utilizes mock and spies to test functionality of each method even if there’s no information passed into the variables. This is an example of black box testing since we don’t know the full functionality of the Halstead checks in real time.

Classes tested:

* Length
* Vocabulary
* Volume
* Difficulty
* Effort

Graphical user interface

Description automatically generated

**Others:**

Each test for each of the classes within this category covers every function/method. This makes for 100% coverage. The tests here utilize mock and spy because we are using a testing method known as black box where we don’t know the full functionality of the code when we run it beforehand.

Classes tested:

* NumOperators
* NumOperands
* NumExpression
* NumLoops
* NumComments
* NumLineComments

There is a screenshot on the next page covering all the methods that were tested.

Graphical user interface

Description automatically generated with medium confidence