

Silver Bullet

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CS 362

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### *Deliverable #3*

Our current framework is written fully in python. It loops through each of the test case files to retrieve the test inputs. It runs each matching test case executable to acquire a result, and stores it in a text file. After this is done for all of the test cases, it compares each one to its respective oracle, and determines if a pass or fail has occurred. The script then creates an HTML file, complete with table, and inputs the data and opens it.

Our current file build doesn't include each test case executable adding data to the HTML file, only the main python script. Currently, the file pathing isn't set up to run in any location that the parent TestAutomation folder is inside of, but that isn't a complicated issue to solve. Running the program as-is currently only works on Jameson's laptop, as the file paths are set up with his Ubuntu's file structure naming in mind.

#### Current test cases:

TestNumber: 1  
TestedRequirement: Test that passing two whole integers will return their sum  
TestedComponent: functions.py  
TestedMethod: add(x, y)  
driver: TestCase1.py  
TestInputs: 1 3  
Oracle: testCase1oracle.txt

TestNumber: 2

TestedRequirement: Test that passing one number and one string will return a Type Error

TestedComponent: functions.py

TestedMethod: add(x, y)

driver: TestCase1.py

TestInputs: 1 testString

Oracle: testCase1oracle.txt

TestNumber: 3

TestedRequirement: Test that adding two negative numbers returns the correct negative sum

TestedComponent: functions.py

TestedMethod: add(x, y)

driver: TestCase1.py

TestInputs: -1 -1

Oracle: testCase1oracle.txt

TestNumber: 4

TestedRequirement: Test that the sum of zero and an integer return that integer

TestedComponent: functions.py

TestedMethod: add(x, y)

driver: TestCase1.py

TestInputs: 0 7

Oracle: testCase1oracle.txt

TestNumber: 5

TestedRequirement: Test that two very precise decimals, to the 20th decimal place, will have a sum of zero

TestedComponent: functions.py

TestedMethod: add(x, y)

driver: TestCase1.py

TestInputs: .99999999999999999999 .00000000000000000001

Oracle: testCase1oracle.txt