Team Members:

Miki Sugimoto

Donovan Roseau

Mac Knight

October 25, 2016

Software Engineering Team Term Project:

Deliverable #3

Introductions

For this week's deliverable, the team dove into the task of testing code written by another developer (Martus) and developing drivers which test methods within a class. The lack of documentation on the methods was a setback to producing our first 5 test cases, but we managed to find some simple methods that should be the easiest to assess for our first experience with the process.

TEST CASES

Test ID: 001

Requirement Tested: The method should return an integer, that shows the number of days between date1 and date2

Component Being Tested: Flexidate(date1, date2)

Method Being Tested: getRange()

Test Input: date1 =2001,5,5 date2 = 2002,5,5

Expected Outcome: 365

Test ID: 002

Requirement Tested: The method should return an integer, that shows the number of days between date1 and date2

Component Being Tested: Flexidate(date1, date2)

Method Being Tested: getRange()

Test Input: date1 =1999,5,5 date2 = 2000,5,5

Expected Outcome: 366

Test ID: 003

Requirement Tested: The method should return an integer, that shows the number of days between date1 and date2

Component Being Tested: Flexidate(date1, date2)

Method Being Tested: getRange()
Test Input: date1 = 2020,4,25 date2 = 2020,5,25
Expected Outcome: 31

Test ID: 004
Requirement Tested: The method should return an integer, that shows the number of days between date1 and date2
Component Being Tested: Flexidate(date1,date2)
Method Being Tested: getRange()
Test Input: date1 = 1999,12,31 date2 = 2000,1,1
Expected Outcome: 1

Test ID: 005
Requirement Tested: The method should return an integer, that shows the number of days between date1 and date2
Component Being Tested: Flexidate(date1,date2)
Method Being Tested: getRange()
Test Input: date2 = 1776,6,4 date2 = 1776,6,4
Expected Outcome: 0

Report:

  For our framework, we developed a driver for each class in Martus. The method we are currently testing is getRange() and it is found inside the Flexidate class. Our driver has a main and when it executes, an object is instantiated and the method is executed. In order to test the getRange() method, two Calendar objects must be created and given three integers which serve as dates on a calendar. Then a Flexidate obeject is instantiated and takes two parameters which are two of the dates just created. Next, the getRange() method is called on the Flexidate object and the number of days between the two dates are returned as an integer. The results are sent to the temp folder and compared to the results in the oracle folder.

  The script first runs the driver tests and the results go into text files in the test results folder. Then, the driver compares the outcomes of the tests to the oracle and records the results in a new file and displays them in the default browser.

  In order to run the test from the command line, change the directory to the scripts folder inside of TestAutomation_1 and write chmod u+x RunAllScripts to get permissions. Then, ./RunAllTests so the driver is executed and the results are sent to the temp folder.