**Queen’s University**

**Assignment:**

**Quinterac part 5**

**Course:**

**CMPE 327**

**Prepared for:**

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**Group Number:**

**23**

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**Due Date:**

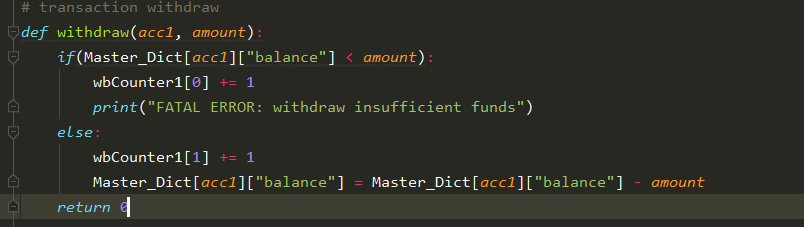
**November 25th, 2019**

## Note

Both White-Box testing methods (decision coverage and statement coverage) is done using code injection. A separate backend file was cloned to perform code injection, the filename is “test\_backend.py”. We decided to do source level implementation testing using the coverage array method. We have a global array called “wbCounter[]” and whenever a test case occurs we increment the value in the array by 1.

## Withdraw Method

1. Decision coverage is used for the “withdraw” method (starts are line 24)
2. For decision coverage we made a test case for each decision in the program. The first case enters the error statement when the amount exceeds the total balance, and the second case enters the success statement when the amount doesn’t exceed the total balance. The “wbCounter1” array value is incremented by 1 for their respected indices.



1. The test inputs that were used to enter each if statements are the following:

|  |  |  |  |
| --- | --- | --- | --- |
| Decision | amount input | test | amount |
| TRUE | 600000 | T1 | 600000 |
| FALSE | 400000 | T2 | 400000 |

\*Note only “amount” is considered as the input because the “acc1” parameter is assumed to be correct as the account number is verified in the frontend. The default balance for every account is assumed to be 500000.

To run these tests the following lines were included in the master transaction summary file.

|  |
| --- |
| WDR 1234567 600000 0000000 \*\*\* |
| WDR 1234567 500000 0000000 \*\*\* |

1. Finally, the array was reviewed by a print statement to see if the test cases successfully ran. The withdraw test case showed both values of the array to be “1” meaning both test cases successfully executed. There were no errors found.

Counter Array 1 is the white-box record array for the withdraw method.



## Create Account Method

1. **Test case Analysis**
2. **Test inputs**
3. **Test Report**

