

CISC 327 Assignment 5 Account Creation Test Report

Source Listing:

This test report will use the white box testing method of statement coverage to test the function createacct found within the file backoffice.py. Below is an outline of the function:

```
1. def createacct(self, number,name):
2.     name = name.strip('\n')
3.     for account in self.account_list:
4.         if account[0] == number:
5.             sys.stdout.write("Create account error: \n This account number: " +
6. number + " already exists within database. New account was not created.\n")
7.             return
8.     self.account_list.append([number, "000", name])
9.     pass
```

Test Cases:

Statement	X input	Y input	Z input (account list)	Test	x	y	z
1	1111111	Name	1111111, 2345678	T1	1234567	Name	1111111, 2345678
2	1111111	Name	1111111, 2345678				
3	1111111	Name	1111111, 2345678				
4	1111111	Name	1111111, 2345678				
5	1111111	Name	1111111, 2345678				
6	1111111	Name	1111111, 2345678				
7	1039876	Name	1111111, 2345678	T2	1039876	Name	1234567, 2345678

8.	1039876	Name	1111111, 2345678	T2	1039876	Name	1234567, 2345678
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T1: Checks if the submitted number already exists in the master account list file. If it does exist, the user is prompted that there was an issue in while creating the account and that the process was not executed.

T2: Checks to see if the number entered is a new and unique account value. If it is then the account number and name are added to the master account list file along with a starting balance of zero.

Sample Test Cases:

Test case inputs can be found in the text file **createacct_transaction_test_inputs.txt** which resembles the format of the merged transaction file. The structure can be found below:

```
login
NEW 1111111 *** *** Name
logout
login
NEW 1039876 *** *** Name
logout
EOS
```

In addition to the test input file, the following is an example of the **master_account_list.txt** file that will be used to check the validity of the new account number against existing account numbers:

```
1111111 111 aaa
2345678 123 abc
0000000
```

Test Report:

Test Number	Test Name	Purpose	Failure	Changes
T1	Existing Account number	Checks to see if account already exists in master account list file	Successful test	(-)

T2	Unique Account Number	Checks to see if account is new and unique	Successful test	(-)
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