

Back Office Unit Testing for Account Creation Transactions					
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Ryan and Marwan spent an hour together working on the report of the white box testing for the Account Creation Transaction.					
Stmt	masterAccountDict input	accountNum input	accountName input	Test	Output
144	{'1223334': ['1000', 'skdf'], '1234567': ['1000', 'sdads']}	1223334	"John Doe"	Test-1	"Please enter new account number, this one is taken!"
145	{'1223334': ['1000', 'skdf'], '1234567': ['1000', 'sdads']}	1223334	"John Doe"		"Please enter new account number, this one is taken!"
146	{'1223334': ['1000', 'skdf'], '1234567': ['1000', 'sdads']}	1223334	"John Doe"		"Please enter new account number, this one is taken!"
147	{'1223334': ['1000', 'skdf'], '1234567': ['1000', 'sdads']}	1010101	"James"	Test-2	None
148	{'1223334': ['1000', 'skdf'], '1234567': ['1000', 'sdads']}	1010101	"James"		None
149	{'1223334': ['1000', 'skdf'], '1234567': ['1000', 'sdads']}	1010101	"James"		None
150	{'1223334': ['1000', 'skdf'], '1234567': ['1000', 'sdads']}	1010101	"James"		{'1223334': ['1000', 'skdf'], '1234567': ['1000', 'sdads'], '1010101': ['000','James']}
Code Snippet from backend.py of createAccount method					
<pre>139 '''This function takes in the master account dictionary, an account Number and account name 140 and updates the master account dictionary, adding a new account into the master accounts file 141 ''' 142 143 144 def createAccount(masterAccountDict,accountNum,accountName): 145 if accountNum in masterAccountDict: 146 print("Please enter new account number, this one is taken!") 147 else: 148 # Since no other transaction is accepted after an account is created, the new accounts 149 masterAccountDict[accountNum] = ["000", accountName] 150 return masterAccountDict</pre>					
For the Account Creation Traction, we followed the statement coverage method of white box testing. The completion criteria was to create test cases that would cover all the statements in the createAccount function atleast once. Test1 checks if an account can be created if it already exist in the master account file. The output was a print statement letting users know of the error. Test 2 checks if an account can be created with the right inputs, the output would be the modified master Account Dictionary. No test failures where found.					