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Software Methodology
Test Specification Tables

Class Name: TransactionManagerController
Method Signature: public boolean handleOpen(AccountDatabase accs){}

Test Case Number	Requirement	Test Description and Input Data	Expected Result/Output
1	Method should return false for any input of an improper type	Input an account variable with a valid number of inputs but invalid type of input (i.e. String where there should be an int)	False, output message displaying improper input
2	Should return false if there is an improper number of arguments given by user	Try opening an account with all correct information but leaving out one field (i.e. leave balance blank)	False, will tell user which data field is missing
3	Should return false if trying to open an account that is already in the database	Try opening an account with the same account type, full name, and date of birth as an existing account	False, will tell user that the account is already in the database
4	Should return true if none of the previous parameters are met	Open an account with a unique account with the correct number and type of parameters	True, will say account opened successfully.

Class Name: TransactionManagerController
Method Signature: public boolean handleClose(AccountDatabase accs){}

Test Case Number	Requirement	Test Description and Input Data	Expected Result/Output
1	Method should return false for any input of an improper type	Input an account variable with a valid number of inputs but invalid type of input (i.e. String where there should be an int)	False, output message displaying improper input
2	Should return false if there is an improper number of arguments given by user	Try closing an account with all correct information but leaving out one field (i.e. leave balance blank)	False, will tell user which data field is missing
3	Should return false if trying to close an account that is not in the database	Try closing an account that is not already in the database	False, will tell user that the account is not in the database
4	Should return true if none of the previous parameters are met	Close an existing account with the correct number and type of parameters.	True, will say account closed successfully.

Class Name: TransactionManagerController
Method Signature: public boolean handleWithdraw(AccountDatabase accs){}

Test Case Number	Requirement	Test Description and Input Data	Expected Result/Output
1	Method should return false for any input of an improper type	Input an account variable with a valid number of inputs but invalid type of input (i.e. String where there should be an int)	False, output message displaying improper input
2	Should return false if there is an improper number of arguments given by user	Try withdrawing an account with all correct information but leaving out one field (i.e. leave balance blank)	False, will tell user which data field is missing
3	Should return false if trying to withdraw from an account that is not in the database	Try withdrawing from an account with a different account type, full name, and date of birth as any existing account	False, will tell user that the account is not in the database
4	Should return true if none of the previous parameters are met	Withdraw from an account with the correct number and type of parameters	True, will say withdrawal was performed successfully.

Class Name: TransactionManagerController
Method Signature: public boolean handleDeposit(AccountDatabase accs){}

Test Case Number	Requirement	Test Description and Input Data	Expected Result/Output
1	Method should return false for any input of an improper type	Input an account variable with a valid number of inputs but invalid type of input (i.e. String where there should be an int)	False, output message displaying improper input
2	Should return false if there is an improper number of arguments given by user	Try depositing to account with all correct information but leaving out one field (i.e. leave balance blank)	False, will tell user which data field is missing
3	Should return false if trying to deposit to an account that is not in the database	Try depositing to an account with a different account type, full name, and date of birth as any existing account	False, will tell user that the account is not in the database
4	Should return true if none of the previous parameters are met	Deposit to an account with the correct number and type of parameters	True, will say deposit was performed successfully.

Class Name: TransactionManagerController
Method Signature: public void printSorted(AccountDatabase accs){}

Test Case Number	Requirement	Test Description and Input Data	Expected Result/Output
1	Method should print a full list of all accounts sorted by account type and profile	Create a list of valid accounts, and print them to the output field	List of all accounts sorted in order of account type and profile
2	Should print a message saying account database is empty if there are no accounts in the database	Try printing the list of accounts before opening any accounts, or after closing all previously opened accounts	Message saying account database is empty
3	Should include the campus name for College Checking	Open a college checking account with one of the valid campus codes (0, 1, or 2) and try running method	Should output a String containing all of the information of the account, including campus name
4	Should include loyalty values for Savings and Money Market accounts, and for MM should include number of withdrawals	Open 2 different accounts, a Savings and a Money Market account, withdraw a certain number of times from the money market account, and print	Should output a list containing the Savings account (including its loyalty status) and the money market account (including its loyalty status and the number of withdrawals)

Class Name: TransactionManagerController
Method Signature: public void printIF(AccountDatabase accs){}

Test Case Number	Requirement	Test Description and Input Data	Expected Result/Output
1	Method should print a full list of all accounts sorted by account type and profile, including the monthly interests and fees of each account	Create a list of valid accounts, and print them to the output field	List of all accounts sorted in order of account type and profile
2	Should print a message saying account database is empty if there are no accounts in the database	Try printing the list of accounts before opening any accounts, or after closing all previously opened accounts	Message saying account database is empty
3	Should include the campus name for College Checking	Open a college checking account with one of the valid	Should output a String containing all

		campus codes (0, 1, or 2) and try running method	of the information of the account, including campus name
4	Should include loyalty values for Savings and Money Market accounts, and for MM should include number of withdrawals	Open 2 different accounts, a Savings and a Money Market account, withdraw a certain number of times from the money market account, and print	Should output a list containing the Savings account (including its loyalty status) and the money market account (including its loyalty status and the number of withdrawals). This list should contain the interests and fees of the accounts.

Class Name: TransactionManagerController
Method Signature: public void printUB(AccountDatabase accs){}

Test Case Number	Requirement	Test Description and Input Data	Expected Result/Output
1	Method should subtract all fees and add all monthly interests to account, then print list of accounts	Create a list of valid accounts, and print them to the output field	List of all accounts sorted in order of account type and profile, including their updated balance after fees and interests
2	Should print a message saying account database is empty if there are no accounts in the database	Try printing the list of accounts before opening any accounts, or after closing all previously opened accounts	Message saying account database is empty
3	Should include the campus name for College Checking	Open a college checking account with one of the valid campus codes (0, 1, or 2) and try running method	Should output a String containing all of the information of the account, including campus name
4	Should include loyalty values for Savings and Money Market accounts, and for MM should include number of withdrawals	Open 2 different accounts, a Savings and a Money Market account, withdraw a certain number of times from the money market account, and print	Should output a list containing the Savings account (including its loyalty status) and the money market account (including its loyalty status and

			the number of withdrawals). This list should contain the interests and fees of the accounts.