Test Cases

Black-Box Test Cases

These test cases are defined based on the available documentation and execution of the program. The code was not inspected.

#	Test case (very brief description)	Preconditions (any required setup)	Test steps (steps executed during testing)	Expectation	Observation ("pass" or failure description)
1	Registration	No	Creating a temp database to register a new user and test the case of already taken username.	Successful check of registered data and then failure to register in case of existing ID.	Pass
2	Log In	User must be registered.	Extension of the Registration test. Logs in right after registration. Also tests wrong password and non-existent users.	Successful log-in after matching the username and password. Should not log-in in case of wrong password and non-existent users.	Pass
3	AddMoney	User must be logged in.	Sample registration and login is performed first. Then adding a sample amount and then re-reading the temp database to verify the amount.	Successful addition of the sample amount.	Pass
4	WithdrawMoney	User must be logged in.	Extension of the AddMoney test. After addition, a sample amount is deducted and then verified by re-reading the database.	Successful deduction of the sample amount.	Pass
5	ViewTransactionHistory	User must be logged in.	Extension of the WithdrawMoney test. After that, a loop is used to perform several sample transactions and ultimately the list size is retrieved to verify the number of transactions.	Successful matching of the number of sample transactions and the list size returned.	Pass

White-Box Test Cases

These additional test cases were defined during inspection of the code.

#	Test case (very brief description)	Preconditions (any required setup)	Test steps (steps executed during testing)	Expectation	Observation ("pass" or failure description)
1	LoadUsers() method handling IOException	No	A nonexistent file is called using load users method.	The method should throw an exception.	Fail
2	LoadTransactions() method handling IOException	No	A nonexistent file is called using load transactions method.	The method should throw an exception.	Fail
3	Adding Negative Amount	User must be logged in.	Sample registration and login is performed first. Then adding a sample negative amount and then re-reading the temp database to verify the amount.	Amount should not be added.	Pass