

Phase 1 Test Cases

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Bank Transaction Tests

Test ID	Feature/Transaction	Requirement Tested
FE_01	Login	- Rejects transactions before login
FE_02	Login	- Reject login if already logged in
FE_03	Login	- Accept admin login mode
FE_04	Login	- Accept standard login
FE_05	Logout	- Reject logout if no session is active
FE_06	Logout	- Write the transaction file and reject further transactions after logout
FE_07	Withdrawal	- Successful withdrawal within the session limit and account balance
FE_08	Withdrawal	- Reject withdrawal exceeding \$500 in standard mode
FE_09	Withdrawal	- Reject a withdrawal that causes a negative balance
FE_10	Withdrawal	- Reject withdrawal from an account not owned by the user c
FE_11	Transfer	- Successful transfer between two valid accounts (under session limit and balance limits)
FE_12	Transfer	- Reject transfer exceeding \$1000 in standard mode
FE_13	Transfer	- Reject transfer if the source or destination account is invalid
FE_14	Transfer	- Reject the transfer that would cause a negative balance
FE_15	Pay Bill	- Successful payment to the company on the allowed list
FE_16	Pay Bill	- Reject a payment to a company not on the allowed list
FE_17	Pay Bill	- Reject payment that exceeds \$2000 in standard mode
FE_18	Pay Bill	- Reject payment that would cause a negative balance
FE_19	Pay Bill	- Reject payment from an account not owned by the user
FE_20	Deposit	- Successful deposit to a valid account

FE_21	Deposit	- Reject the deposit to an account not owned by the logged-in user
FE_22	Deposit	- Ensure deposited funds are not available for further transactions in the same session
FE_23	Create	- Admin successfully creates a new account with a valid name, balance, and unique account number
FE_24	Create	- Reject creation due to an invalid name, an invalid balance, or a duplicate account number
FE_25	Create	- Reject the attempt to create an account in the standard session
FE_26	Delete	- Admin deletes the existing account. No further transactions on that account
FE_27	Delete	- Reject deletion if invalid name and account number
FE_28	Delete	- Reject the delete attempt if in standard mode
FE_29	Disable	- Admin disables the active account. No further transactions
FE_30	Disable	- Reject if the account name /number is invalid
FE_31	Disable	- Reject disabled attempt if in standard mode
FE_32	Change Plan	- Admin changes payment plan from SP → NP for a valid account
FE_33	Change Plan	- Reject change if the account name or account number is invalid
FE_34	Change Plan	- Reject attempt in standard mode

General Front-End Requirements Testing

Test ID	Test Name	Requirement Tested
FE-G01	Invalid Command Handling	- System handles unknown transaction codes without crashing
FE-G02	Invalid Field Input	- System handles non-numeric and malformed input gracefully
FE-G03	Missing Input Lines	- System handles incomplete transaction input without crashing
FE-G04	Extra Input Lines	- System ignores unexpected extra input safely
FE-G05	Continuous Operation	- The system continues running after multiple input errors

Bank Account Transaction File

Test ID	Test Name	Requirement Tested
FE-TF01	Transaction File Generated on Logout	- The transaction file is created only when the logout is processed
FE-TF02	Valid Transaction File Entry Format	- Valid transaction record satisfies all formatting rules
FE-TF03	End of Session Record	- The transaction file ends with a 00 end-of-session record
FE-TF04	Correct Transaction Codes	- Each transaction record uses the correct two-digit transaction code
FE-TF05	Unused Fields Filled Correctly	- Unused numeric fields are zero-filled, and unused alphabetic fields are space-filled

Current Bank Accounts File

Test ID	Test Name	Requirement Tested
FE-CB01	File Generated	- The current bank accounts file is written after processing transactions
FE-CB02	Line Length & Padding	- Each account line is exactly 37 characters, numeric fields zero-filled, alphabetic fields space-filled
FE-CB03	Monetary Format	- Balance fields end with .00, and unused numeric fields are z
FE-CB04	Status Field Correctness	- Account status (A or D) matches expected state after transactions
FE-CB05	END_OF_FILE Record	- Last line contains account END_OF_FILE with proper formatting