Test Organization

All test cases are organized into a single directory organized by operation name. Each operation has its own subdirectory named according to the test scenario (e.g., Valid_Standard_Login, Invalid Login Type). Inside each test case folder, the following files are included:

- 1. **Input File (.inp)** Contains the test input commands.
- 2. **Expected Transaction File (.etf)** Stores the expected state of the bank account transaction file after execution.
- 3. **Expected Terminal Output (.bto)** Captures the expected console output.

Each transaction category (Login, Logout, Withdrawal, Transfer, etc.) has multiple test case folders to cover different scenarios. Example below:

Login/	
	Valid_Standard_Login/
	input.inp
	transactions.etf
	— output.bto
	Valid_Admin_Login/
	<u> </u>
•••	

Test Run Plan

Tests will be run using a DOS batch command script that runs the Front End for each of the test input files in the directory. Tests will be executed using a shell script that:

- 1. Iterates over all test case folders within the specified operations directory (eg. Login).
- 2. Runs the banking system using the test case .inp file.
- 3. Captures the actual output into:
 - Actual Transaction File (.atf) The generated transaction file output.
 - Actual Terminal Output (.bto) The generated console output.
- 4. Compares the actual output files (.atf, .bto) against the expected files (.etf, .bto).
- 5. Reports any discrepancies between actual and expected results.

A summary report is generated at the end, indicating test pass/fail status.

Requirements Problems and Assumptions

1. Maximum Bank Accounts Per User

• The requirements do not specify a limit. We assume a maximum of **6 accounts** per user.

2. Transaction Limits in Admin Mode

• The document does not explicitly state if admin users have a transaction limit. We assume **no transaction limits for admin users**.

3. Session Persistence Between Runs

o It is unclear if the system retains state between sessions. We assume each test starts with a **clean state** (i.e., no prior transactions or active sessions).

4. Handling of Special Characters in Names

• The requirements prohibit special characters in names but do not specify allowed character sets. We assume **only alphabets and spaces** are allowed.

5. Behavior on Disabled Accounts

• The document does not specify if disabled accounts can be re-enabled. We assume a disabled account cannot be reactivated.