

1) Introduction

This document outlines the organization and execution plan for the front-end requirement tests of the Banking System. It includes the directory structure, execution methods, output management, and reporting strategy to ensure all tests are comprehensive, consistent, and easily maintainable.

2) Test Organization

The tests are organized into directories based on functional modules of the Banking System. The primary directory is SQA-project, which contains the following subdirectories:

- TestCases
 - Create
 - Deposit
 - Login
 - Logout
 - Paybill
 - Delete
 - Transfer
 - Withdrawal
 - Input
 - Output
 - ETF
 - Changeplan
- Users

Each module directory contains test case files named systematically (e.g., TC_Withdrawal_01.txt) for clarity. Input and output files are separated into Input and Output folders, with corresponding filenames to facilitate traceability. All ETF files are in the ETF folder, also named correspondingly.

3) Test Execution Plan

Tests will be executed using shell scripts to automate the process, ensuring consistency and reducing manual effort. The scripts will:

- Read each input file from the respective Input directory.
- Execute the front-end application with the input data.
- Capture the output and store it in the corresponding Output directory with matching filenames (e.g., TC_Withdrawal_01.txt).
- Compare the actual output with the expected output to determine pass/fail status.

4) Shell Script Pseudo Code:

```
START

FOR each input file in the 'Input' directory DO

    SET output file path in the 'Output' directory with the same filename

    EXECUTE the front-end application using the input file

    STORE the output in the corresponding output file

    COMPARE the output file with the expected output file

    IF the outputs match THEN

        PRINT "[Test Case Name] - PASS"

    ELSE

        PRINT "[Test Case Name] - FAIL"

        SAVE the differences in the 'Reports' directory

    END IF

END FOR

END
```

5) Output Storage Organization

The output of each test case will be stored in the corresponding Output directory, maintaining the same file naming convention as the input files. Any discrepancies between the actual and expected outputs will be recorded in the *Reports* folder for easy review.

6) Output Storage Organization

```
SQA-project/
├── TestCases/
```

```
|   └─ Withdrawal/
|
|   └─ Input/
|
|   └─ Output/
|
|   └─ Expected/
|
|   └─ Reports/
|
|   └─ (Other modules)
└─ users/
```

7) Reporting and Comparison

After executing the tests, the shell script will generate a report indicating the pass/fail status of each test case. Detailed diff reports will be available in the *Reports* directory, highlighting any differences between the actual and expected outputs.