

جامعة نيويورك أبوظبي



NYU | ABU DHABI

CS-UH 2012: Software Engineering

Finance Tracker - *Test Cases*

Course Project: Deliverable 4 - Group 8

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Note:

The two of the three core use cases that were modeled before are not picked for designing test cases in this deliverable. Instead two new core use cases have been selected for designing test cases. With the changes in the project plan during implementation, the system's functional requirements have been modified. These changes will also be reflected in the other key deliverables such as SRS, class diagram, use case diagram, use case scenarios, etc.

Test Case 01

Project Name: Finance Tracker

Test Case ID: TC-CJ-01

Test Designed by: Fatima Nadeem

Test Priority (Low/Medium/High): High

Test Designed date: 4 May 2022

Module Name: Create Journal

Test Executed by: Chinonyerem Ukaegbu

Test Title: Create Journal Test 01

Test Execution date: 8 May 2022

Description: check if journal is created successfully

Objective: Check if function works as intended - positive case

Pre-conditions: User is logged in the system correctly and display the main menu options correctly.

| Step | Test Steps | Test Data | Expected Result | Actual Result | Status (Pass/Fail) | Notes |
|------|---|---|---|---------------|--------------------|------------------|
| 1 | Choose create journal option | Option : <i>int</i> | prompts to enter name (mandatory), start date and end date (mandatory) and description (optional) | As expected | Pass | |
| 2 | Enter unique name, valid start and end date | Journal.name: <i>string</i> Journal.startDate: <i>string</i> Journal.endDate: <i>string</i> | Valid information saved in system and the local files are updated and ask for choice between another input to create transaction or main menu | As expected | Pass | |
| 3 | Choose to add another input | Same as steps 1-2 | Same as steps 1-2 | As expected | Pass | Repeat steps 1-2 |

Post-conditions: User adds as many transactions as they want and after all are completed, return to main menu

Test Case 02

Project Name: Finance Tracker

Test Case ID: TC-CJ-02

Test Designed by: Fatima Nadeem

Test Priority (Low/Medium/High): High

Test Designed date: 4 May 2022

Module Name: Create Journal

Test Executed by: Chinonyerem Ukaegbu

Test Title: Create Journal Test 02

Test Execution date: 8 May 2022

Description: check if journal is created successfully

Objective: Check if function works as intended - positive case

Pre-conditions: User is logged in the system correctly and display the main menu options correctly.

| Step | Test Steps | Test Data | Expected Result | Actual Result | Status (Pass/Fail) | Notes |
|------|---|---|---|---------------|--------------------|-------|
| 1 | Choose create journal option | Option : <i>int</i> | prompts to enter name (mandatory), start date and end date (mandatory) and description (optional) | As expected | Pass | |
| 2 | Enter unique name, valid start and end date | Journal.name: <i>string</i> Journal.startDate: <i>string</i> Journal.endDate: <i>string</i> | Valid information saved in system and the local files are updated and ask for choice between another input to create transaction or main menu | As expected | Pass | |
| 3 | Choose to return to main menu | | Main menu displayed | As expected | Pass | |

Post-conditions: User continues to use other functions of the system.

Test Case 03

Project Name: Finance Tracker

Test Case ID: TC-CJ-03

Test Designed by: Fatima Nadeem

Test Priority (Low/Medium/High): High

Test Designed date: 4 May 2022

Module Name: Create Journal

Test Executed by: Chinonyerem Ukaegbu

Test Title: Create Journal Test 03

Test Execution date: 8 May 2022

Description: check if journal is created successfully - invalid values entered

Objective: Check if function works as intended - negative case

Pre-conditions: User is logged in the system correctly and display the main menu options correctly.

| Step | Test Steps | Test Data | Expected Result | Actual Result | Status (Pass/Fail) | Notes |
|------|-----------------------------------|-----------------------------|--|---------------|--------------------|-------|
| 1 | Choose create journal option | Option : <i>int</i> | prompts to enter name (mandatory), start date and end date (mandatory) and description (optional) | As expected | Pass | |
| 2 | Enter name of an existing journal | Journal.name: <i>string</i> | Notify that Journal.name is already in use and prompt them to enter new name | As expected | Pass | |
| 3 | Input unique name | Same as steps 2 | Accept the valid input and save it locally. Prompt to enter start date and end date (mandatory) and description (optional) | As expected | Pass | |

Post-conditions: User continues to complete creating a new journal by adding other mandatory parameters.

Test Case 04

Project Name: Finance Tracker

Test Case ID: TC-CJ-04

Test Designed by: Fatima Nadeem

Test Priority (Low/Medium/High): High

Test Designed date: 4 May 2022

Module Name: Create Journal

Test Executed by: Chinonyerem Ukaegbu

Test Title: Create Journal Test 04

Test Execution date: 8 May 2022

Description: check if journal is created successfully - invalid values entered

Objective: Check if function works as intended - negative case

Pre-conditions: User has inputted a valid name to create a new journal.

| Step | Test Steps | Test Data | Expected Result | Actual Result | Status (Pass/Fail) | Notes |
|------|--|--|---|---------------|--------------------|-------|
| 1 | Enter invalid start date and/or end date | Journal.startDate: <i>string</i> Journal.endDate: <i>string</i> | Notify of the invalid input. Return to main menu | As expected | Pass | |
| 2 | Enter valid start date and/or end date | Journal.startDate: <i>string</i> Journal.endDate: <i>string</i> | Valid information saved in system and the local files are updated and ask for choice between another input to create transaction or main menu | As expected | Pass | |

Post-conditions: User makes a valid choice and is redirected as intended.

Test Case 05

Project Name: Finance Tracker

Test Case ID: TC-CJ-05

Test Designed by: Fatima Nadeem

Test Priority (Low/Medium/High):
Medium

Test Designed date: 4 May 2022

Module Name: Create Journal

Test Executed by: Chinonyerem Ukaegbu

Test Title: Create Journal Test 05

Test Execution date: 8 May 2022

Description: check if journal is created successfully - optional values added

Objective: Check if function works as intended - optional case

Pre-conditions: User has inputted a valid name, start date and end date to create a new journal.

| Step | Test Steps | Test Data | Expected Result | Actual Result | Status (Pass/Fail) | Notes |
|------|-----------------------------|------------------------------------|---|---------------|--------------------|-------|
| 1 | Enter optional description. | Journal.description: <i>string</i> | Valid information saved in system and the local files are updated and ask for choice between another input to create transaction or main menu | As expected | Pass | |

Post-conditions: User makes a valid choice and is redirected as intended.

Test Case 06

Project Name: Finance Tracker

Test Case ID: TC-ANT-01

Test Designed by: Fatima Nadeem

Test Priority (Low/Medium/High): High

Test Designed date: 4 May 2022

Module Name: Add New Transaction

Test Executed by: Chinonyerem Ukaegbu

Test Title: Add New Transaction Test 01

Test Execution date: 8 May 2022

Description: check if transaction is created successfully - valid values entered

Objective: Check if function works as intended - positive case

Pre-conditions: User has successfully created a new Journal or chooses an existing Journal.

| Step | Test Steps | Test Data | Expected Result | Actual Result | Status (Pass/Fail) | Notes |
|------|----------------------------------|--|---|---------------|--------------------|------------------|
| 1 | Choose create transaction option | Option : <i>int</i> | prompts to choose the category if expenditure selected. Automatically set category if chosen revenue. | As expected | Pass | |
| 2 | Enter expenditure category | Transaction.isRevenue: <i>boolean</i> Transaction.isExpenditure: <i>boolean</i> Transaction.category : <i>string</i> | prompts to enter amount | As expected | Pass | |
| 3 | Enter valid amount | Transaction.amount: <i>float</i> | Valid information saved in system and the local files are updated and ask for choice between another input to create transaction or main menu | As expected | Pass | |
| 4 | Choose to add another input | Same as steps 1-3 | Same as steps 1-3 | As expected | Pass | Repeat steps 1-3 |

Post-conditions: User adds as many transactions as they want and after all are completed, return to main menu.

Test Case 07

Test Case ID: TC-ANT-02

Test Designed by: Fatima Nadeem

Test Priority (Low/Medium/High): High

Test Designed date: 4 May 2022

Module Name: Add New Transaction

Test Executed by: Chinonyerem Ukaegbu

Test Title: Add New Transaction Test 02

Test Execution date: 8 May 2022

Description: check if transaction is created successfully - valid values entered

Objective: Check if function works as intended - positive case

Pre-conditions: User has successfully created a new Journal or chooses an existing Journal.

| Step | Test Steps | Test Data | Expected Result | Actual Result | Status (Pass/Fail) | Notes |
|------|----------------------------------|--|---|---------------|--------------------|-------|
| 1 | Choose create transaction option | Option : <i>int</i> | prompts to choose the category if expenditure selected. Automatically set category if chosen revenue. | As expected | Pass | |
| 2 | Enter expenditure category | Transaction.isRevenue: <i>boolean</i> Transaction.isExpenditure: <i>boolean</i> Transaction.category : <i>string</i> | prompts to enter amount | As expected | Pass | |
| 3 | Enter valid amount | Transaction.amount: <i>float</i> | Valid information saved in system and the local files are updated and ask for choice between another input to create transaction or main menu | As expected | Pass | |
| 4 | Choose to return to main menu | | Main menu displayed | As expected | Pass | |

Post-conditions: User is displayed the main menu options.

Test Case 08

Project Name: Finance Tracker

Test Case ID: TC-ANT-03

Test Designed by: Fatima Nadeem

Test Priority (Low/Medium/High): High

Test Designed date: 4 May 2022

Module Name: Add New Transaction

Test Executed by: Chinonyerem Ukaegbu

Test Title: Add New Transaction Test 03

Test Execution date: 8 May 2022

Description: check if transaction is created successfully - invalid values entered

Objective: Check if function works as intended - negative case

Pre-conditions: User has successfully created a new Journal or chooses an existing Journal.

| Step | Test Steps | Test Data | Expected Result | Actual Result | Status (Pass/Fail) | Notes |
|------|----------------------------------|---------------------|---|---------------|--------------------|-------|
| 1 | Choose create transaction option | Option : <i>int</i> | Prompts to choose the category if expenditure selected. Automatically set category if chosen revenue. | As expected | Pass | |
| 2 | Enter invalid choice number | | Notify of invalid choice and redirect to main menu | As expected | Pass | |

Post-conditions: User makes choices from the main menu again.

Test Case 09

Project Name: Finance Tracker

Test Case ID: TC-ANT-04

Test Designed by: Fatima Nadeem

Test Priority (Low/Medium/High): High

Test Designed date: 4 May 2022

Module Name: Add New Transaction

Test Executed by: Chinonyerem Ukaegbu

Test Title: Add New Transaction Test 04

Test Execution date: 8 May 2022

Description: check if transaction is created successfully - invalid values entered

Objective: Check if function works as intended - negative case

Pre-conditions: User has successfully created a new Journal or chooses an existing Journal. Enters a valid category.

| Step | Test Steps | Test Data | Expected Result | Actual Result | Status (Pass/Fail) | Notes |
|------|--|----------------------------------|---|---------------|--------------------|-------|
| 1 | Enter invalid amount (float/int ≤ 0) | Transaction.amount: <i>float</i> | Notify the invalid value and redirects to main menu | As expected | Pass | |

Post-conditions: User makes choices from the main menu again.

Test Case 10

Project Name: Finance Tracker

Test Case ID: TC-DT-01

Test Designed by: Fatima Nadeem

Test Priority (Low/Medium/High): High

Test Designed date: 4 May 2022

Module Name: Delete Transaction

Test Executed by: Chinonyerem Ukaegbu

Test Title: Delete Transaction Test 01

Test Execution date: 8 May 2022

Description: check if transaction is successfully deleted

Objective: Check if function works as intended - positive case

Pre-conditions: User is successfully logged in system.

| Step | Test Steps | Test Data | Expected Result | Actual Result | Status (Pass/Fail) | Notes |
|------|--------------------------------|-----------------------------|--|---------------|--------------------|-------|
| 1 | Choose to delete a transaction | Option: <i>int</i> | Prompt to enter the Journal name to delete transaction from | As expected | Pass | |
| 2 | Enter valid Journal name | Journal.name: <i>string</i> | Journal name found in system and prompt to enter transaction ID | As expected | Pass | |
| 3 | Enter Transaction ID | Transaction.ID: <i>int</i> | Transaction ID found in the journal and removed the Transaction List of the journal. Changes reflected in the system and local data files. | As expected | Pass | |

Post-conditions: User is able to continue performing other functions.

Test Case 11

Project Name: Finance Tracker

Test Case ID: TC-DT-02

Test Designed by: Fatima Nadeem

Test Priority (Low/Medium/High): High

Test Designed date: 4 May 2022

Module Name: Delete Transaction

Test Executed by: Chinonyerem Ukaegbu

Test Title: Delete Transaction Test 02

Test Execution date: 8 May 2022

Description: check if transaction is successfully deleted

Objective: Check if function works as intended - negative case

Pre-conditions: User is successfully logged in system.

| Step | Test Steps | Test Data | Expected Result | Actual Result | Status (Pass/Fail) | Notes |
|------|--------------------------------|-----------------------------|--|---------------|--------------------|-------|
| 1 | Choose to delete a transaction | Option: <i>int</i> | Prompt to enter the Journal name to delete transaction from | As expected | Pass | |
| 2 | Enter invalid Journal name | Journal.name: <i>string</i> | Notify Journal name not found in system and redirect to main menu. | As expected | Pass | |

Post-conditions: User makes choices from the main menu again.

Test Case 12

Project Name: Finance Tracker

Test Case ID: TC-DT-03

Test Designed by: Fatima Nadeem

Test Priority (Low/Medium/High): High

Test Designed date: 4 May 2022

Module Name: Delete Transaction

Test Executed by: Chinonyerem Ukaegbu

Test Title: Delete Transaction Test 03

Test Execution date: 8 May 2022

Description: check if transaction is successfully deleted

Objective: Check if function works as intended - negative case

Pre-conditions: User enters a valid journal name that exists in system and is prompted to enter the ID of the transaction to delete.

| Step | Test Steps | Test Data | Expected Result | Actual Result | Status (Pass/Fail) | Notes |
|------|------------------------------|-------------------------------|---|---------------|--------------------|-------|
| 1 | Enter invalid transaction ID | Transaction.ID: <i>int</i> | Notify transaction is not found in system and redirects to main menu. | As expected | Pass | |

Post-conditions: User makes choices from the main menu again.