

APPENDIX B

EXPENSE CALCULATOR TEST CASES

We have created some tests in this book, and in this appendix section, I have included several additional test cases that can be used in testing our AUT. You can use these tests to practice the creation of WinRunner test scripts.

Test Name:

Delete Expense

Purpose:

Verify that expenses are deleted from the display grid when a delete operation is invoked.

Pre-Condition:

There are more than two existing expenses in the account before this test is executed.

Step	User Action	Expected Result
1	Launch the AUT	
2	Select the first expense in the grid and delete it by clicking Actions -> Delete in the menu	Number of expenses in the expense grid is reduced by 1.
3	Select the first expense in the grid and delete it by pressing the Delete	Number of expenses in the expense grid is reduced by 1.

	key
4	Close the AUT

Post-Condition:

None

Valid Test Data:

N/A

Possible Exceptions:

N/A

Listing B.1: Delete Expense Test Case.

Test Name:

Check Navigation

Purpose:

Verify that all windows in the application are displayed when the appropriate menu operations are invoked.

Pre-Condition:

None.

Step	User Action	Expected Result
1	Launch the AUT	Main window is displayed.
2	Invoke the New Accounts dialog by clicking File -> New Account from the menu	New Account dialog is displayed
3	Close the dialog by clicking the Cancel button	
4	Invoke the Open Accounts dialog by clicking File -> Open Account from the menu	Open Account dialog is displayed
5	Close the dialog by	

	clicking the Cancel button	
6	Invoke the Summary dialog by clicking Actions -> View Summary from the menu	Summary dialog is displayed
7	Close the dialog by clicking the Close button	
8	Invoke the About dialog by clicking Help -> About from the menu	About dialog is displayed
9	Close the dialog by clicking the Ok button	
10	Close the AUT	

Post-Condition:

None

Valid Test Data:

N/A

Possible Exceptions:

N/A

Listing B.2: Check Navigation Test Case.

Test Name:

Check App Details

Purpose:

Verify default settings in the application match the defaults specified in the requirements.

Pre-Condition:

None.

Step	User Action	Expected Result
1	Launch the AUT	The following

		default values are included: a. Todays Date button has focus b. Save button is the default button c. Totals textbox is read only
2	Invoke the About dialog by clicking Help -> About from the menu	Application shows version 1.0.* (* reflects the build number and is not checked)
3	Close the dialog by clicking the Ok button	
4	Close the AUT	

Post-Condition:

None

Valid Test Data:

N/A

Possible Exceptions:

N/A

Listing B.3: Check App Details Test Case.

Test Name:

View Summary

Purpose:

Verify that the Summary window is displayed on invocation.

Pre-Condition:

The account displayed contains more than one expense.

Step	User Action	Expected Result
1	Launch the AUT	

2	Invoke the Summary dialog by clicking Actions -> View Summary from the menu	Summary dialog is displayed
3	Close the dialog by clicking the Close button	
4	Close the AUT	

Post-Condition:

None

Valid Test Data:

N/A

Possible Exceptions:

N/A

Listing B.4: View Summary Test Case.

Test Name:

View System Info

Purpose:

Ensure that the Window's System Info application is successfully launched.

Pre-Condition:

None

Step	User Action	Expected Result
1	Launch the AUT	
2	Invoke the About dialog by clicking Help -> About from the menu	About dialog is displayed
3	Click the System Info button	The Windows System Info application is executed
4	Close the About dialog by clicking the Ok button	

5	Close the AUT
6	Close the System Info application

Post-Condition:

None

Valid Test Data:

N/A

Possible Exceptions:

N/A

Listing B.5: View System Info Test Case.

Test Name:

Verify Total

Purpose:

Ensure that the amount displayed in the total's textbox is the correct sum of expenses displayed in the amount column of the grid. The total should also be displayed in \$#,###.00 (currency) format.

Pre-Condition:

The account displayed contains more than three expenses totalling over \$1000 in amount.

Step	User Action	Expected Result
1	Launch the AUT	The amount shown in the totals textbox is the sum of amounts shown in the Amount column of the grid. This value must be in \$#,###.00 format.
2	Close the System Info application	

Post-Condition:

None

Valid Test Data:

N/A

Possible Exceptions:

N/A

Listing B.6: Verify Totals Test Case.

Test Name:

Verify Required Fields

Purpose:

Ensure that expenses cannot be saved with any of the required fields missing.

Pre-Condition:

None

Step	User Action	Expected Result
1	Launch the AUT	
2	Click the Save button	Error message is displayed stating that the date is missing
3	Close the error message dialog	Cursor focus is on the date field
4	Click the Today's Date button and click the Save button	Error message is displayed stating that the description is missing
5	Close the error message dialog	Cursor focus is on the description field
6	Enter a description and click the Save button	Error message is displayed stating that the category is missing
7	Close the error message dialog	Cursor focus is on the category field
8	Choose a category and click the Save button	Error message is displayed stating that the amount is missing

9	Close the error message dialog	Cursor focus is on the amount field
10	Enter a valid amount and click the Save button	Expense is saved to the database and displayed in the grid
11	Close the AUT	

Post-Condition:

None

Valid Test Data:

None

Possible Exceptions:

N/A

Listing B.7: Verify Required Fields Test Case.

Test Name:

Ensure Valid Date

Purpose:

Ensure that expenses cannot be saved using an invalid date.

Pre-Condition:

None

Step	User Action	Expected Result
1	Launch the AUT	
2	Type in an expense using data from below and click the Save button	Error message is displayed stating that the date is invalid
3	Close the error message dialog	Cursor focus is on the date field
4	Click the Today's date button and click the Save button	Expense is saved to the database and displayed in the grid
5	Close the AUT	

Post-Condition:

None

Valid Test Data:

Date: <invalid date e.g. 13/32/07>

Description: Venti non-fat no-whip ice mocha

Category: Snacks

Amount: 23.45

Possible Exceptions:

N/A

Listing B.8: Ensure Valid Date Test Case.

Test Name:

Ensure Valid Amount

Purpose:

Ensure that expenses cannot be saved using an invalid amount.

Pre-Condition:

None

Step	User Action	Expected Result
1	Launch the AUT	
2	Type in an expense using data from below and click the Save button	Error message is displayed stating that the amount is invalid
3	Close the error message dialog	Cursor focus is on the amount field
4	Enter a valid amount and click the Save button	Expense is saved to the database and displayed in the grid
5	Close the AUT	

Post-Condition:

None

Valid Test Data:

Date: 1/1/2007

Description: Venti non-fat no-whip ice mocha
Category: Snacks
Amount: <invalid amount e.g. 2.bc>

Possible Exceptions:
N/A

Listing B.9: Ensure Valid Amount Test Case.

Test Name:
Verify Exit

Purpose:
Verify that the application closes when terminated using the close button or the menu.

Pre-Condition:
None

Step	User Action	Expected Result
1	Launch the AUT	
2	Close the AUT by clicking on the Close button on the title bar	Application exits
3	Launch the AUT	
4	Close the AUT using the menu by clicking File -> Exit	Application exits

Post-Condition:
None

Valid Test Data:
None

Possible Exceptions:
N/A

Listing B.10: Verify Exit Test Case.

Test Name:
Grid vs DB

Purpose:
Verify that the grid displays the correct number of database records for the given account.

Pre-Condition:
None

Step	User Action	Expected Result
1	Launch the AUT	Grid count matches the number of records in the database for the default account
2	Close the AUT	Application exits

Post-Condition:
None

Valid Test Data:
None

Possible Exceptions:
N/A

Listing B.11: Grid vs. DB Test Case.

Test Name:
New Account

Purpose:
Ensure that when a new account is opened, the correct defaults are set.

Pre-Condition:
None

Step	User Action	Expected Result
1	Launch the AUT	
2	Click on File->New	The New Account

	Account	dialog is displayed
3	Enter a new account name	
4	Click the Ok button	a. Main window caption contains account name b. Grid shows no records c. Total's textbox has a value of \$0.00
5	Close the AUT	Application exits

Post-Condition:

None

Valid Test Data:

Account name that doesn't exist. Use the SQL code below to identify existing accounts:
SELECT DISTINCT ACCOUNT FROM EXPENSES

Possible Exceptions:

N/A

Listing B.12: New Account Test Case.

Test Name:

Open Account

Purpose:

Ensure that when an existing account is reopened, the correct defaults are set.

Pre-Condition:

More than one account exists

Step	User Action	Expected Result
1	Launch the AUT	
2	Click on File->Open Account	The Open Account dialog is displayed
3	Select an existing account from the drop down list	
4	Click the Ok button	a. Main window

		caption contains account name
5	Close the AUT	Application exits

Post-Condition:

None

Valid Test Data:

None

Possible Exceptions:

N/A

Listing B.13: Open Account Test Case.

Test Name:

Verify Mnemonics

Purpose:

Ensure that all command shortcuts work properly.

Pre-Condition:

Account dialog contains more than one account

Step	User Action	Expected Result
1	Launch the AUT	Main window is displayed.
2	Invoke the New Accounts dialog by pressing Ctrl+N	New Account dialog is displayed
3	Close the dialog by clicking the Cancel button	
4	Invoke the Open Accounts dialog by pressing Ctrl+O	Open Account dialog is displayed
5	Close the dialog by clicking the Cancel button	
6	Select the first record in the grid and press the Delete key	Number of expenses in the expense grid is reduced by 1

7	Press Alt+T	The correct system date is entered in the date textbox
8	Enter a valid expense	
9	Save the expense by pressing Alt+S	Number of expenses in the expense grid is increased by 1
10	Close the AUT by pressing Shift+F4	Application closes

Post-Condition:

None

Valid Test Data:

Description: Chocolate chip cookie dough

Category: Snacks

Amount: 4.55

Possible Exceptions:

N/A

Listing B.14: Verify Mnemonics Test Case.