

Debugger

Amount: Category:

serial	Amount	Category	Date
1	50.0	food	04-12-2023 19:51
Total	50.0		

expense_tracker > test > J TestExample.java > TestExample > testUndoFunction()

VARIABLES

Local

model: ExpenseTrackerModel#33

listeners: ArrayList#67 size=1

0: ExpenseTrackerView#34

matchedFilterIndices: ArrayList#68 size=0

transactions: ArrayList#69 size=1

0: Transaction#82

amount: 50.000000

category: "food"

timestamp: "04-12-2023 19:49"

view: ExpenseTrackerView#34

controller: ExpenseTrackerController#35

initialAmount: 50.000000

initialCategory: "food"

this: TestExample#37

WATCH

expense_tracker > test > J TestExample.java > TestExample > testUndoFunction()

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```
void testUndoFunction() {  
    // Setup  
    ExpenseTrackerModel model = new ExpenseTrackerModel();  
    ExpenseTrackerView view = new ExpenseTrackerView();  
    ExpenseTrackerController controller = new ExpenseTrackerController();  
  
    // Register the view with the model  
    model.register(view); model = ExpenseTrackerModel@33  
  
    // Add a transaction  
    double initialAmount = 50.0; initialAmount = 50.000000  
    String initialCategory = "food"; initialCategory = "food"  
    controller.addTransaction(initialAmount, initialCategory);  
  
    // Perform the action: Undo the last transaction  
    controller.undoTransaction(rowIndex:0); controller  
  
    // Check post-conditions: The state of the model after  
    // its previous state  
    assertEquals(expected:0, model.getTransactions().size());  
    controller.setFilter(new CategoryFilter(initialCategory));  
    controller.applyFilter();  
    assertEquals(expected:0, view.getDisplayedTransactions().size());  
}
```

Amount: Category:

serial	Amount	Category	Date
1	50.0	food	04-12-2023 20:04
Total	50.0		

expense_tracker > src > controller > J ExpenseTrackerController.java > ExpenseTrackerController

VARIABLES

Local

rowIndex: 0

this: ExpenseTrackerController#35

filter: null

model: ExpenseTrackerModel#33

listeners: ArrayList#59 size=1

0: ExpenseTrackerView#34

matchedFilterIndices: ArrayList#60 size=0

transactions: ArrayList#61 size=1

0: Transaction#82

amount: 50.000000

category: "food"

timestamp: "04-12-2023 20:04"

view: ExpenseTrackerView#34

WATCH

expense_tracker > src > controller > J ExpenseTrackerController.java > ExpenseTrackerController

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```
public boolean undoTransaction(int rowIndex) {  
    if (rowIndex >= 0 && rowIndex < model.getTransactions().size()) {  
        Transaction removedTransaction = model.getTransactions().get(rowIndex);  
        model.removeTransaction(removedTransaction);  
        return true;  
    }  
  
    // The undo was disallowed.  
    return false;  
}
```

Amount: Category:

serial	Amount	Category	Date
Total			0.0

expense_tracker > test > J TestExample.java > TestExample > testUndoFunction()

VARIABLES

Local

model: ExpenseTrackerModel#33

listeners: ArrayList#59 size=1

0: ExpenseTrackerView#34

matchedFilterIndices: ArrayList#60 size=0

transactions: ArrayList#61 size=0

view: ExpenseTrackerView#34

controller: ExpenseTrackerController#35

initialAmount: 50.000000

initialCategory: "food"

this: TestExample#37

controller: ExpenseTrackerController#92

model: ExpenseTrackerModel#93

listeners: ArrayList#96 size=1

0: ExpenseTrackerView#94

matchedFilterIndices: ArrayList#97 size=0

WATCH

expense_tracker > test > J TestExample.java > TestExample > testUndoFunction()

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```
@Test  
public void testUndoFunction() {  
    // Setup  
    ExpenseTrackerModel model = new ExpenseTrackerModel();  
    ExpenseTrackerView view = new ExpenseTrackerView();  
    ExpenseTrackerController controller = new ExpenseTrackerController();  
  
    // Register the view with the model  
    model.register(view); model = ExpenseTrackerModel@33  
  
    // Add a transaction  
    double initialAmount = 50.0; initialAmount = 50.000000  
    String initialCategory = "food"; initialCategory = "food"  
    controller.addTransaction(initialAmount, initialCategory);  
  
    // Perform the action: Undo the last transaction  
    controller.undoTransaction(rowIndex:0); controller  
  
    // Check post-conditions: The state of the model after  
    // its previous state  
    assertEquals(expected:0, model.getTransactions().size());  
    controller.setFilter(new CategoryFilter(initialCategory));  
    controller.applyFilter();  
    assertEquals(expected:0, view.getDisplayedTransactions().size());  
}
```

✓ 15/15

1.3s ↺

✓  CS520-Homework4 964ms


✓  {} <Default Package> 964ms


✓  TestExample 964ms

✓  testAddTransaction() 30ms


✓  testRemoveTransaction() 27ms




✓  testAddTransactionInView() 18ms


✓  testUndoAddTransactionInView() 20ms


✓  testFilterByAmount() 20ms

✓  testFilterByCategory() 33ms


✓  testUndoNoTransactions() 21ms


✓  testUndoAddTransaction() 24ms

✓  testInvalidInputHandling() 24ms


✓  testRegisterFails() 17ms

✓  testRegisterSucceeds() 39ms

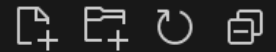
✓  testObserverPatternWithActualNumbers() 528ms

✓  testObserverPattern() 56ms

✓  testUndoFunction() 40ms

✓  testUndoFunctionWithMultiple() 67ms

✓ CS520-HOMEWORK4



✓ expense_tracker

> docs

> lib

✓ src

✓ controller

J ExpenseTrackerController.class

J ExpenseTrackerController.java

J InputValidation.class

J InputValidation.java

✓ model

> Filter

J ExpenseTrackerModel.class

J ExpenseTrackerModel.java

J ExpenseTrackerModelListener.class

J ExpenseTrackerModelListener.java

J Transaction.class

J Transaction.java

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✓ view

J ExpenseTrackerTableModel.class

J ExpenseTrackerTableModel.java

J ExpenseTrackerView.class

J ExpenseTrackerView.java

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J ExpenseTrackerView\$1.class

J ExpenseTrackerApp.class

J ExpenseTrackerApp.java

> test

🔗 build.xml

≡ log.txt

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📘 README.md