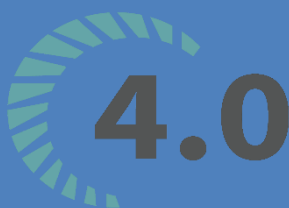


KHOA CÔNG NGHỆ THÔNG TIN
ĐẠI HỌC KHOA HỌC TỰ NHIÊN, ĐẠI HỌC QUỐC GIA TP HCM

KIỂM THỬ PHẦN MỀM



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KIỂM THỬ PHẦN MỀM
HỌC KỲ I – NĂM HỌC 2023-2024



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A. Mô tả

Sử dụng Katalon để tiến hành kiểm thử tự động cho chức năng Tạo một Giao dịch mới (Create Transaction)



B. Bài làm

1. Tạo kịch bản kiểm thử

Tạo kịch bản kiểm thử cho Testcase 01 – Tạo Giao dịch thành công

Item	Object	Input	Output
→ 1 - Open Browser		""	
→ 2 - Navigate To Url		"http://localhost/transactions,	
→ 3 - Set Text	input_Remember me_email	"20120084@student.hcmus.ec	
→ 4 - Set Encrypted Text	input_Remember me_passwo	"mOZVWG7GnZb3DPbU5zws	
→ 5 - Click	button_Sign in		
→ 6 - Click	a_Create a new transaction		
→ 7 - Set Text	input_Description_description	description	
→ 8 - Set Text	input_Source account_source	source	
→ 9 - Send Keys	input_Source account_source	Keys.chord(Keys.ENTER)	
→ 10 - Set Text	input_Destination account_de	destination	
→ 11 - Send Keys	input_Destination account_de	Keys.chord(Keys.ENTER)	
→ 12 - Set Text	input_US Dollar_amount	amount	
→ 13 - Click	button_Submit		
→ 14 - Close Browser			

Các bước:

1. Mở trình duyệt
2. Đăng nhập
3. Nhấn “Create new Transaction”
4. Nhập các thông tin như: Description, Source, Destination, Amount
5. Nhấn “Submit” để hoàn thành

2. Tạo các biến cho các giá trị input

No.	Name	Type	Default value	Description
1	description	String	""	
2	source	String	""	
3	destination	String	""	
4	amount	Number	0	

3. Tạo và import dataset từ Excel

Tạo và import dataset đã được thiết kế và generate ở YC2, YC3

No.	STT	TC	Description	Source	Destination
1	1	TC01	Invoice Transaction	Vietcombank	Cash wallet
2	2	TC01	Payment Remittance	Vietcombank	Vietcombank saving
3	3	TC01	Fee Settlement	Vietcombank saving	Cash wallet
4	4	TC01	Billing Transaction	Cash wallet	Vietcombank saving
5	5	TC01	Service Charge Payment	Cash wallet	Vietcombank



4. Binding dữ liệu

Binding dữ liệu trong dataset với các biến trong testcase để có thể chạy một kịch bản với nhiều dataset khác nhau

Test Data

+ Add ✖ Delete ↑ Move Up ↓ Move Down ⌘ Map All

No.	ID	Data Iteration
1	Data Files/Create transaction/TC01	All

Variable Binding

✔ Set Type ✔ Set Test Data

No.	Name	Default value	Type	Test Data	Value
1	description	"	Data Colum	1 - Data Files/Create transaction/TC01	Description
2	source	"	Data Colum	1 - Data Files/Create transaction/TC01	Source
3	destination	"	Data Colum	1 - Data Files/Create transaction/TC01	Destination
4	amount	0	Data Colum	1 - Data Files/Create transaction/TC01	Amount

5. Chạy Test cases

Chạy Test case sau khi binding dữ liệu



Software Testing\Project\FireFlyTesting]

TC01 TC01 x

Test Data

Add Delete Move Up Move Down Map All

No.	ID	Data Iteration
1	Data Files/Create transaction/TC01	All

Variable Binding

Set Type Set Test Data

No.	Name	Default value	Type	Test Data	Value
1	description	"	Data Column	1 - Data Files/Create transaction/TC01	Description
2	source	"	Data Column	1 - Data Files/Create transaction/TC01	Source
3	destination	"	Data Column	1 - Data Files/Create transaction/TC01	Destination
4	amount	0	Data Column	1 - Data Files/Create transaction/TC01	Amount

Manual Script Variables Variables (Script mode) Data Binding Integration Properties

Problems Event Log Console Log Viewer Self-healing Insights (1)

Runs: 0/5 Passes: 0 Failures: 0 Errors: 0 Skips: 0

What's next?

Test Cases/Transfers/Create transaction/TC01 - Firefox - 20240109_093041 0/5
<Running> - Firefox

Test Cases/Bills/Create bill/TC01 - Firefox - 20240109_090547 0/1
<Terminated> - Firefox

Test Cases/Bills/Create bill/TC01 - Firefox - 20240109_085826 0/1
<Terminated> - Firefox

6. Tạo Test Suite cho chức năng Tạo Giao dịch

Tương tự tạo các testcase còn lại của chức năng Tạo tài Giao dịch. Sau khi thành công import các testcase vào “Test suite 01 – Create Transaction”

Create transaction x

Execution Information

Add Delete Move Up Move Down View Test Run History Show Data Binding

Enter text to search...

No.	ID	Description	Flakiness (%)	Latest Run	Avg.Duration	Run
1	Test Cases/Transfers/Create transaction/TC01		0.00	✓	11s	✓
2	Test Cases/Transfers/Create transaction/TC02		0.00	✓	11s	✓
3	Test Cases/Transfers/Create transaction/TC03		0.00	✓	11s	✓
4	Test Cases/Transfers/Create transaction/TC04		0.00	✓	10s	✓
5	Test Cases/Transfers/Create transaction/TC05		0.00	✓	11s	✓
6	Test Cases/Transfers/Create transaction/TC06		0.00	✓	11s	✓
7	Test Cases/Transfers/Create transaction/TC07		0.00	✓	11s	✓
8	Test Cases/Transfers/Create transaction/TC08		0.00	✓	11s	✓
9	Test Cases/Transfers/Create transaction/TC09		0.00	✓	11s	✓



Tiến hành chạy kiểm thử Test suite.

The screenshot displays the Katalon Studio interface during a test suite execution. The main window shows the 'Execution Information' tab with a table of test cases. The table has columns for No., ID, Description, Flakiness (%), Latest Run, Avg.Duration, and Run. The test cases are listed as follows:

No.	ID	Description	Flakiness (%)	Latest Run	Avg.Duration	Run
1	Test Cases/Transfers/Create transaction/TC01		0.00		11s	
2	Test Cases/Transfers/Create transaction/TC02		0.00		11s	
3	Test Cases/Transfers/Create transaction/TC03		0.00		11s	
4	Test Cases/Transfers/Create transaction/TC04		0.00		10s	
5	Test Cases/Transfers/Create transaction/TC05		0.00		11s	
6	Test Cases/Transfers/Create transaction/TC06		0.00		11s	
7	Test Cases/Transfers/Create transaction/TC07		0.00		11s	
8	Test Cases/Transfers/Create transaction/TC08		0.00		11s	
9	Test Cases/Transfers/Create transaction/TC09		0.00		11s	

The right sidebar shows the 'Job Progress' tab with a summary of the test suite execution. It indicates that the test suite 'Test Suites/Create transaction - Firefox - 20240109_093303' is running. Below this, it shows the progress of individual test cases, including 'Test Cases/Transfers/Create transaction/TC01 - Firefox - 20240109_093041' and 'Test Cases/Bills/Create bill/TC01 - Firefox - 20240109_090547'. The status for these test cases is '<Terminated> - Firefox'.

7. Báo cáo

Sử dụng chức năng của Katalon Studio sau khi chạy Test suite hoàn thành ta có được báo cáo.

Create transaction

Execution Environment

Host name	Hieu Nguyen - HieuNguyen.mshome.net
Local OS	Windows 11 64bit
Katalon version	9.0.0.212
Browser	Firefox 121.0

Summary

ID	Test Suites/Create transaction		
Description			
Total	43		
Passed	43	Failed	0
Error	0	Incomplete	0
Skipped	0		
Start	2024-01-08 23:38:24	End	2024-01-08 23:46:04
Elapsed	7m - 40.078s		

#	ID	Description	Status
1	Test Cases/Transfers/Create transaction/TC01		PASSED
2	Test Cases/Transfers/Create transaction/TC01		PASSED
3	Test Cases/Transfers/Create transaction/TC01		PASSED
4	Test Cases/Transfers/Create transaction/TC01		PASSED
5	Test Cases/Transfers/Create transaction/TC01		PASSED
6	Test Cases/Transfers/Create transaction/TC02		PASSED
7	Test Cases/Transfers/Create transaction/TC02		PASSED
8	Test Cases/Transfers/Create transaction/TC02		PASSED
9	Test Cases/Transfers/Create transaction/TC02		PASSED
10	Test Cases/Transfers/Create transaction/TC02		PASSED
11	Test Cases/Transfers/Create transaction/TC03		PASSED
12	Test Cases/Transfers/Create transaction/TC03		PASSED
13	Test Cases/Transfers/Create transaction/TC03		PASSED
14	Test Cases/Transfers/Create transaction/TC03		PASSED
15	Test Cases/Transfers/Create transaction/TC03		PASSED

Create transaction

#	ID	Description	Status
16	Test Cases/Transfers/Create transaction/TC04		PASSED
17	Test Cases/Transfers/Create transaction/TC04		PASSED
18	Test Cases/Transfers/Create transaction/TC04		PASSED
19	Test Cases/Transfers/Create transaction/TC04		PASSED
20	Test Cases/Transfers/Create transaction/TC04		PASSED
21	Test Cases/Transfers/Create transaction/TC05		PASSED
22	Test Cases/Transfers/Create transaction/TC05		PASSED
23	Test Cases/Transfers/Create transaction/TC05		PASSED
24	Test Cases/Transfers/Create transaction/TC06		PASSED
25	Test Cases/Transfers/Create transaction/TC06		PASSED
26	Test Cases/Transfers/Create transaction/TC06		PASSED
27	Test Cases/Transfers/Create transaction/TC06		PASSED
28	Test Cases/Transfers/Create transaction/TC06		PASSED
29	Test Cases/Transfers/Create transaction/TC07		PASSED
30	Test Cases/Transfers/Create transaction/TC07		PASSED
31	Test Cases/Transfers/Create transaction/TC07		PASSED
32	Test Cases/Transfers/Create transaction/TC07		PASSED
33	Test Cases/Transfers/Create transaction/TC07		PASSED
34	Test Cases/Transfers/Create transaction/TC08		PASSED
35	Test Cases/Transfers/Create transaction/TC08		PASSED
36	Test Cases/Transfers/Create transaction/TC08		PASSED
37	Test Cases/Transfers/Create transaction/TC08		PASSED
38	Test Cases/Transfers/Create transaction/TC08		PASSED

Create transaction

#	ID	Description	Status
39	Test Cases/Transfers/Create transaction/TC09		PASSED
40	Test Cases/Transfers/Create transaction/TC09		PASSED
41	Test Cases/Transfers/Create transaction/TC09		PASSED
42	Test Cases/Transfers/Create transaction/TC09		PASSED
43	Test Cases/Transfers/Create transaction/TC09		PASSED