Integration with Functionize

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Overview

Functionize is an intelligent software testing platform for teams of all sizes and skill sets. By combining the power of human insights with machine learning and other Al-based technologies, it's possible to reduce the time and cost spent in testing while accelerating product releases.

Tests can run across multiple browsers and use AI to self-heal upon UI visual or structural changes.

More details about Functionize here.

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QA / ComicStore / Account / CO	M-107				+ NEW TEST
Actions 🥵 🧐 TDM Histor	ry				
• • •				View Results Last Run Executed By	07/08/2021 @ 03:37 AM PDT Cristiano Cunha
9 actions by Cristiano Cunha					SuccessLogin
1 Open Url http://robotwebdemo	o.herokuapp.com/				
1 Pageinit 🕑	Load URL 'http://robotwebdemo.herokuapp.com/'				
2 Click 🥥	Click INPUT field with ID 'username_field'				
	Falas identida da INDEE 6-Idenida (D. Jacobson 6-Ide				
3 input V	Enter demo in the INPOT heid with ID username_nerd				
4 input 🔮	Enter 'mode' in the PASSWORD field with ID 'password_field'				
5 Click 🥥	Click INPUT with VALUE 'LOGIN'				
6 Pageinit 📀	Load URL 'http://robotwebdemo.herokuapp.com/welcome.html'				
7 E Verify 🗸	Verify TEXT attribute for H1 element is equal to 'Welcome Page'				
8 🤅 Verify 🥥	Verify TEXT attribute for P element is equal to 'Login succeeded. Now yo	u can logout.'			
୨ 🤅 Verify 🔗	Verify TEXT attribute for A element is equal to 'logout'				
				▲ SELF-HEAL	
Projects Reports Orchest	rations TDM Team			0/25 Running Tests O Xblend Sc	oftware, Ld: 🔻 🚇 Cristiano Cunha 🝷 🌲
ComicStore - All /	Account				+ NEW TEST • ••••
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	2. FailedLogin	5 hours ago	5 hours ago	E) @	
	Cristiano Cunha Cristiano Cunha Cristiano Cunha Cristiano Cunha	Cristiano Cunha			
	* XHAY FailedLogin				_
					1
New Folder					
2 0 Active Deleted					
V.4.2.9	2021	© Functionize All rights reserved			

Main features

This integration provides:

- integration with Xray cloud or Server/DC
 ability to link tests to an existing "Test" in Jira/Xray
 ability to track automation results in Xray from testing performed using Orchestrations in Functionize

 Creating a Test Execution linked to the Test Case
 Creating a Test Execution associated to a Test Plan

Mapping of concepts

Functionize

Xray

Project	Jira Project
Test Cases (Folder organization)	Test Repository
Test	Test Case
Orchestration	Test Plan/Test Execution
Test Execution	Test Execution

Setup

A specific integration for Xray is natively provided by Functionize; in order to configure it, the user must follow the below steps to be able to push the results back to Xray.

First open the Team Page, then the Integrations Tab and on the left, select Xray from the Test Case Management section.

🧭 Projects Reports Orchestrations TDM Team		0/25 Running Tests O Xblend Software, Lda ▼ ② Cristiano Cunha ▼ 🐥
Monthly Test Usage: 5%	-	46 out of 1000
Team > Xblend Software, Lda	Phone Numbers 🔹 Integrations	
Test Case Management	Xray	
◯ TestRail	Test Authentication / Connection	
Xray	Please provide your Xray credentials so we can verify the connection.	
	● Cloud ○ Server/Data Center	
Defect Management	URL	
🔿 Jira	Jira Username	
Requirements Management	Jira API Token	
🔾 Jira	Xray Client ID	
Outbound Notifications	Xray Client Secret	
Slack	Test Sign In Connection established. 🗸	
O PagerDuty	Projects Mappings	
Inbound Triggers	Set up your projects below:	
⊖ Jenkins	ComicStore	FAILED FAILED
CircleCl	QA 👻	INCOMPLETE V FAILED V

The necessary configuration must be filled:

- 1. In the main panel, provide credentials for the connection. Select Cloud or Server/Data Center, accordingly with your Jira deployment type
- 2. Enter the URL for your Jira project, your Jira username, and your Jira API token (not your password). For more info on Jira API tokens, please check Manage API tokens for your Atlassian account.
 3. Enter your Xray Client ID and Client Secret (obtain/create these on Xray settings; please check Global Settings: API Keys).
- 4. Click Test Sign In and the status next to the button should update to Connection established with a green check mark when ready.

Test Sign In Connection establishe

Finally scroll down to the Project Mappings section.

Here you will select the Functionize and Xray projects you wish to link together and select the appropriate testing environment to be used (only for that environment, in the Functionize side, we will see the integration button appear).

Then proceed to define the mapping between status in each side (map the Functionize test statuses to the Xray test statuses as you would wish them to be reported).

As you can see, multiple projects may be added; however, each one must be configured individually.

Projects N	Mappings								
T	ComicStore		ComicStore	•	FAILED	•	-18-	FAILED	-
	QA	•			INCOMPLETE	•	-18-	FAILED	~
					WARNING	•	-48-	FAILED	•
					PASSED	•	-48-	PASSED	•
+Ad	d Project								
	Submit								

To finish the setup click Submit to save your connection details.

Linking Test Cases to Tests

Once you have the setup finished you will need to link the Test Cases (from Functionize) with Tests (in Xray). In order to do that, open the Functionize project you have linked with Xray.

On the left panel, confirm you have selected the testing environment previously mapped with your Xray project (the list of tests in the main panel will display the Xray logo + Link Test).

🧭 Projects Reports Orchest	rations TDM Team			0/25 Running Tests	🕽 Cristiano Cunha 👻 🌘 Cristiano Cunha 👻 🌲
ComicStore 👻 🖿 All					+ NEW TEST
QA (3)	Bulk actions * Tags * Assigned To * Status *				Showing 1 to 3 of 3 entries 10 💌
O All	A Name	Created	Last Run 🔶 🛛	Browsers	Actions
O Account O Main	1. copy of InvalidLogin https://robotwebdemo.herokuapp.com Cristiano.Gunha XRAY + Link Test	20 days ago Cristiano Cunha	20 days ago	U 9	
	2. copy of InvalidLogin https://robotwebdemo.herokuapp.com firstano Cunha Stature Unha	20 days ago Cristiano Cunha	20 days ago	0	
	3. copy of InvalidLogin https://bob/vebdemo.herokuapp.com fiftsiano Cunha Statiano Cunha Statiano Lunha	20 days ago Cristiano Cunha	20 days ago	0	
New Folder					
Active Deleted	2021 @	Functionize All rights reserved			
	LOLIO -	gittereet			

In each Test that you want to link with a Test in Xray, in the Project view, click the "Link Test" link to open the Xray Linking window.

Select the corresponding Xray test entry > Click Link Test.

Xray Linking

k.

Select the Xray test case to link your test		
Search tests		
 Test Repository Sum of two numbers Generic Test Exploratory Test Manual Test Manual Test 		
	Cancel Link Test	

Once the mapping is done, the Test name (from Xray) will be listed in the place of Link Test along with a pencil icon to edit the connection at any time.

Projects Reports Orche	trations TDM Team			0/25 Running Tests O Cristiano Cunha 🔻 👔 Cristiano Cunha 👻 🌲
ComicStore - All				+ NEW TEST
QA(3) Q Test Cases Page Objects	Bulk actions * Tags * Assigned To * Status *			Showing 1 to 3 of 3 entries 10 👻
	Name	Created	🝦 Last Run 🝦 Browsers	Actions
 Account Main 	1. copy of InvalidLogin https://vbb/webdemo.herokuapp.com ▲ Cristiano Cunha XRAY Generic Test #	20 days ago Cristiano Cunha	20 days ago 😢 🦁	
	2. copy of InvalidLogin https://tobowebdemo.herokuapp.com Cristiano Cunha Stratano Cunha Stratary + Link Test	20 days ago Cristiano Cunha	20 days ago 👔 🥑 🧐	
	3. copy of InvalidLogin https://tobowebdemo.herokuapp.com Circliano Cunha XRAY + Link Test	20 days ago Cristiano Cunha	20 days ago 👔 🥑	
🔁 New Folder				
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Import results to Xray

In order to import the results back to Xray, go to the Orchestrations page and create a new Orchestration.

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🧭 Projects Reports Or	chestrations TDM Team			0/25 Running Tests O Cristiano Cunha 🔻	😩 Cristiano Cunha 🔻 🐥
Orchestrations (2)	Search				+ Create New Orchestration 1-2 of 2 Showing 10 +
Title \$	Schedule	Projects	Execution Details \$	Execute	Action
DoubleEnv (21630) 2 weeks ago	On Demand	ComicStore	Last run: 2021-07-07 09:57:26 (PDT) Execution time: 1 min 36 secs Status: Passed 4 Execution / 4 Passed	C	Actions -
RunAccountTests (21629) 2 weeks ago	On Demand	ComicStore	Last run: 2021-07-07 08:15:05 (PDT) Execution time: 5 mins 41 secs Status: Passed 2 Executions / 2 Passed	C	Actions -
					< 1 >

Fill in all the details that are relevant to your execution.

Create New C	Orchesti	ration 🗶
Details	Integra	tions Advanced
	Title	Xray_integration
Pr	rojects	ComicStore (27842) -
Environ	ments	QA -
F	olders	Account -
	Tags	Select Tag -
Test	Cases	1 selected -
Sch	edules	On Demand -
Select Bro	owsers	Firefox 77 -
Orchestratio	on Run Type	Foreground ③ Background ④ TDM Run ④
		Cancel Add New

Finally go to the "Advanced" tab to select how you'd like the results of each Orchestration run to be sent to Xray.

Create New Orchest	ration	×
Details Integra	ations Advanced	
Run Order	Parallel (Default) Sequential	
Orchestration Type	Single Group	
Re-run	Incomplete Tests Failed Tests	
	Is Smoke Orchestration	
Email Alerts	Please enter emails with comma separated and do no provide space between the emails	e I
URL Override	string::replacement	
Alerts Delivery	Alert sent on Failure only	~
Webhook Url		
Submit Linked Tests to TCM	On Demand Automatically after any orchestration execution Automatically after any passing orchestration	
	Cano	ncel Add New

The last configuration allows you to associate the orchestration to a Test Plan and/or Fix Version, for that you will find two drop down options, like below, where you can choose the Test Plan (fetched from Xray) and/or the Fix Version to be associated to the Execution (also fetched from Xray, i.e., from the configured project releases).

If you choose to configure those they will be pre-filled on the orchestration view, this is not a mandatory configuration so you can also leave it blank (you will be able to define these per orchestration execution), next press "Add New".

Details Integra	tions Advanced
Run Order	Parallel (Default) Sequential
Orchestration Type	Single Group
Re-run	Incomplete Tests Failed Tests
	Is Smoke Orchestration
Email Alerts	separated and do no provide space between the emails
URL Override	string::replacement
Alerts Delivery	Alert sent on Failure only
Webhook Url	
Submit Linked Tests to TCM	On Demand 🗸
Xray Test Plan	Select Test Plan

We are taken to a confirmation panel where we can select which of the Test Cases we want to include in this Orchestration.

#. Test Case Name		Test Case Name Project Name Envi				
•	copy of InvalidLogin	ComicStore	QA			
~	copy of InvalidLogin	ComicStore	QA			
•	copy of InvalidLogin	ComicStore	QA			

🧭 Projects Reports O	rchestrations TDM Team			0/25 Running Tests 📀 Cristiano Cunha 🔻	😩 Cristiano Cunha 🔻 🌲
Orchestrations (3) Bulk Action Search	Search				← Create New Orchestration 1 - 3 of 3 Showing 10 -
Title \$	Schedule	Projects	Execution Details 🖨	Execute	Action
Xray_integration (21869) 3 mins ago	On Demand	ComicStore		►	Actions +
DoubleEnv (21630) 2 weeks ago	On Demand	ComicStore	Last run: 2021-07-07 09:57:26 (PDT) Execution time: 1 min 36 secs Status: Passed 4 Executions / 4 Passed	C	Actions -
RunAccountTests (21629) 2 weeks ago	On Demand	ComicStore	Last run: 2021-07-07 08:15:05 (PDT) Execution time: 5 mins 41 secs Status: Passed 2 Executions / 2 Passed	C	Actions -
					< 1 >

Now let's execute the Orchestration, for that press the play icon and click Run Orchestration in the confirmation modal.

Once the execution have finished you can check the details by choosing the "Orchestration Results".

🧭 Projects Reports Orche	strations TDM Team			6/25 Running Tests O Cristiano Cunha 🔻	🕥 Cristiano Cunha 🔻 🐥
Orchestrations (3)	Search				+ Create New Orchestration 1-3 of 3 Showing 10 -
Title \$	Schedule	Projects	Execution Details \$	Execute	Action
Xray_integration (21869) 10 mins ago	On Demand	ComicStore	Status: Processing	<i>6</i> ()	Actions +
DoubleEnv (21630) 2 weeks ago	On Demand	ComicStore	Last run: 2021-07-07 09:57:26 (PDT) Execution time: 1 min 36 secs Status: Passed 4 Executions / 4 Passed	C	Orchestration Results API Calls Delete Orchestration
RunAccountTests (21629) 2 weeks ago	On Demand	ComicStore	Last run: 2021-07-07 08:15:05 (PDT) Execution time: 5 mins 41 secs Status: Passed 2 Executions / 2 Passed	C	Actions -
					< 1 >

On the Orchestration Results panel, if you selected On Demand when setting up your Orchestration, you will see two drop down options, one for choosing a Test Plan and another for choosing a Fix Version (if you already have defined these in the orchestration configuration they will be pre-filled) and a "Submit to Xray" button on the upper right corner.

These combinations will allow you to:

- Define a Test Plan this option will associate the Test Executions to a Test Plan in Xray (you can use this option without having a Fix Version defined)
- Define the Fix Version you can choose the Fix Version that you are testing to be associated in the Test Execution (you can use this option without having a Test Plan defined)

If none of the above options are filled, that is ok too, it will mean that you will just submit the Orchestration results directly to a Test Execution (without Fix Version or Test Plan associated with it).

For this example, we will define a Test Plan and a Fix Version and then press the "Submit" button to send those results to Xray.

Projects Reports Orchestrations	TDM Team	0/25 Running Tests 🕥 11 days Left 💽 Cristiano Cunha 🔻	🕥 Cristiano Cunha 🔻 🌲
Xray_integration	•	Xray Test Plan (DEMO) Shoppingm. Fix Version 1.0	Submit To Xray
Orchestration > Xray_integration			
3 mins ago - 2021-08-20 02:33:56 🗸	All Tags 👻		
FIREFOX	CHROME		
• //	• 65		
2 4	1 min 41 secs 08/20	4 0 0 34% ▲ N/A N/A	100% 🕊
Test Cases Executio	Execution I ime Last Orchestration	Executions Passed Executions Failed Executions Warnings	Executions Incomplete
Browser Results based on executions			
Chrome	Firefox		
2	Failures 0.00% Warnings 0.00% 2	Failures 0.00%Warnings 0.00%	
PASSED	Passed 100.00% PASSED	Passed 100.00% Incomplete 0.00%	
	incomplete Goods		2

A modal will open showing the name of the Xray Execution and a link to the execution will be visible under the Submit to Xray button.



The result will be added in the Xray side as a new Test Execution. In Functionize, a Xray link will be provided; when you click it, you will be taken to the Test Execution in the Xray side.

	╃ Jira Your work ∽ Proj	iects ∽ Filters ∽ [Dashboards ~ Peo	ple ~ Apps ~	Create					Q Search		0	٥	cc
1/2	ComicStore Software project				U	nlock more features	with a free 14-day <u>t</u>	rial of Jira Software Standard	<u>i</u> .					×
	COM board Board Roadmap	Projects / 🗐 Cor Xray_integra	nicStore / 🖸 COM	-141 18-20 09:38	:28				To Do 🗸	▲ E	0	1 6	\$;
8	Backlog	Attach Description	Create subtask	🖉 Link issue 🗸 🗸	O Tests ····				Details	-				^
	Active sprints Reports	https://app.function	ize.com/account/sha	re/orchestration/?co	de=df8975ce780e33	99f9ced5f4cbdd3a1	6611f781d523f8		Assignee Reporter	Cristiano Cunha				
V	Issues	copy of	QA	Browser Firefox 77	PASSED	Exec Time 35s	Dataset	Details	Labels	None				
Ë	Components	InvalidLogin copy of	QA	Chrome 85	PASSED	20s		Details	Fix versions Priority	1.0				
	Code Releases	InvalidLogin	QA	Firefox 77	PASSED	36s		Details	Automation	Rule executions				
F	Project pages	InvalidLogin	0.	Chrome 95	DASSED	410		Dataila	Test Plans	Open Test Plans				
4	Testing Board	InvalidLogin	QA .	Childine 65	FASSED	415		Details	Test Environments	Open Test Environments	s			
Ľ	Add shortcut								More fields Original esti	mate, Time tracking, Epic Link, C	Compon	ents, Spr	int	~

On the Test Execution we can see:

- The Summary, that is a concatenation of the title given to the Orchestration plus the date hour
 In the Description, we can find the link back to Functionize application and a table with the details of the execution.
- The Fix Version we have define in Functionize side, if any
- The Test Plan we have chosen to associate in the Functionize side, if any

If you scroll down you will see two Test Executions (associated with the Tests we linked in the Functionize side).

	쿠 Jira Your work ~ Pro	roject	s ~ Filtr	ers ~	Dashboai	rds ∽ People ∽ Apps ∽	Create									Q Search	1	• •		> (c
1/2	ComicStore Software project	D	rojecte /	. 💌 c	omicStore	/ R COM-141		Unloc	k more featı	ures with a free 14	-day <u>trial of</u>	Jira Sofi	tware Stand	<u>dard</u> .						×	
▣	COM board v Board	-														A E	0	1	6	\$	
00	Roadmap														To Do 🗸						
þ	Backlog	Т	ests												Details					^	
Ш	Active sprints		Add Test	ls 🗸											Assignee	O Unassigned					
~	Reports	C	Verall	Exec	ution Sta	atus									Reporter	cc Cristiano Cunha					
	Issues														Labels	None					
-	Components			ED								TOTAL	TESTS: 2		Fix versions	1.0					
	Code		•	F	ilters 🗸						10 🗸	Colum	ins 🗸		Priority	Medium					
≞	Releases			Rank *	Key :	Summary :	Test Type :	Dataset	#Defects :	Status			Actions		Automation	Rule executions					
F	Project pages			1	COM-35	Change account details	Manual		0	PASSED		ED			Test Plans	Open Test Plans					
4	Testing Board			2	COM-31	Login with valid credentials	Manual	==	0	PASSED		≣D			Test Environments	Open Test Environments	5				
Ľ	Add shortcut		Prev	1 N	ext							Total	2 issues		More fields Original estin	nate, Time tracking, Epic Link, C	Compo	nents, S	print	~	
0	Project settings														Created 8 minutes ago Updated 8 minutes ago			\$) Co	onfigur	e
			ativity																		

If we press the Test Execution details icon, we are taken to the Execution Details where we can see the details of that specific execution, namely the two entries that correspond to the execution results in the Functionize side.

👎 Jira Your work 🗸 Projec	ts ~ Filters ~ Dashboards ~ Pe	ople - Apps - Create				Q Search
nicStore / Test Plan: COM-10 / Te	est Execution: COM-141 / Test: COM-	35				Test 1 of 2 👩 🕒 🔿
ange account details						Dataset Import Execution Results
cution Status	Started On		Assig	gnee	Versions	Test Environments
PASSED 4/2	20/Aug/2021 10:34 AM		Unas	ssigned	1.0	-
	Finished On		Exec	uted By	Revision	
	20/Aug/2021 10:35 AM		Crist	tiano Cunha	-	
Findings COMMENT						
- Defects 🧿 🕀						
None						
 Evidence (0) 🕀 						•••
None						
~ Comment						
Testcase	Env	Browser	Status	Exec Time	Dataset	Result Link
copy of InvalidLogin	QA	Firefox 77	PASSED	35s		Details
61 N.N. 1	04	Chrome 85	PASSED	20s		Details

Learn more

- Functionize home page
 Functionize Documentation
 Functionize Integration Documentation
 Functionize Architect (web extension for Chrome)