

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 AI-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](#).

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.

Team > Xblend Software, Lda

Team Alerts Settings Resource Tracker Phone Numbers **Integrations**

Test Case Management

- ☐ TestRail
- ☒ **Xray**

Defect Management

- ☐ Jira

Requirements Management

- ☐ Jira

Outbound Notifications

- ☐ Slack
- ☐ PagerDuty

Inbound Triggers

- ☐ Jenkins
- ☐ CircleCI

Xray

Test Authentication / Connection

Please provide your Xray credentials so we can verify the connection.

☒ Cloud ☐ Server/Data Center

URL:

Jira Username:

Jira API Token:

Xray Client ID:

Xray Client Secret:

Test Sign In Connection established. ✓

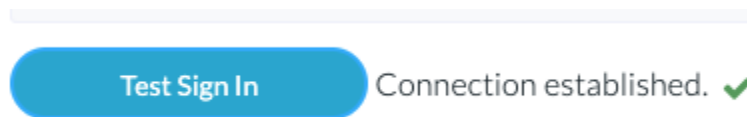
Projects Mappings

Set up your projects below:

Functionize Project	Xray Project	Functionize Status	Xray Status
ComicStore	ComicStore	FAILED	FAILED
QA		INCOMPLETE	FAILED

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.



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 Mappings

Set up your projects below:



ComicStore

QA

ComicStore

ComicStore

FAILED

INCOMPLETE

WARNING

PASSED

FAILED

FAILED

FAILED

PASSED

+ Add Project

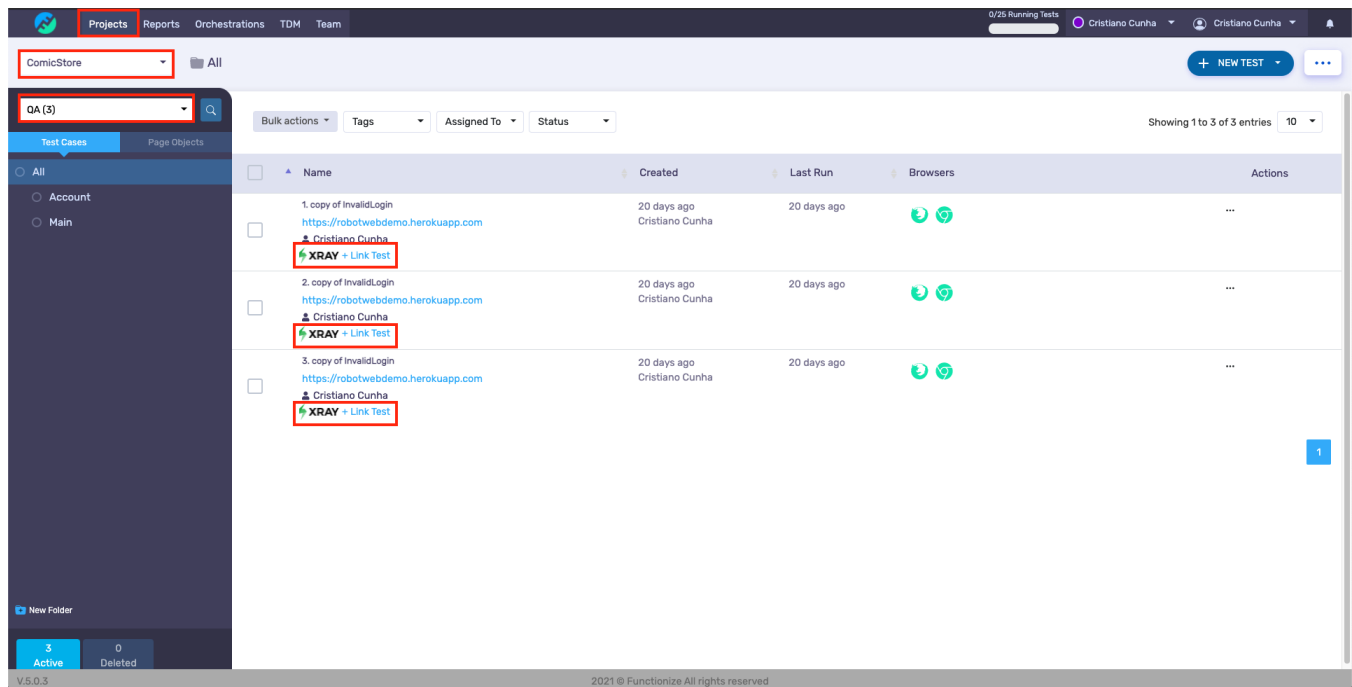
Submit

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).



The screenshot shows the Functionize interface with the 'Projects' tab selected. The 'ComicStore' project is chosen from the dropdown. The left sidebar has 'Test Cases' selected. The main panel shows a list of test cases with columns: Name, Created, Last Run, Browsers, and Actions. Each test case entry includes a 'Link Test' button and an Xray logo, which are highlighted with red boxes. The test cases are:

- 1. copy of InvalidLogin
https://robotwebdemo.herokuapp.com
Cristiano Cunha
XRAY + Link Test
- 2. copy of InvalidLogin
https://robotwebdemo.herokuapp.com
Cristiano Cunha
XRAY + Link Test
- 3. copy of InvalidLogin
https://robotwebdemo.herokuapp.com
Cristiano Cunha
XRAY + Link Test

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

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.

ProjectsReportsOrchestrationsTDMTeam

0/25 Running TestsCristiano CunhaCristiano Cunha

ComicStoreAll

QA(3)

Test CasesPage Objects

All

Account

Main

Bulk actions

Tags

Assigned To

Status

Showing 1 to 3 of 3 entries10

	Name	Created	Last Run	Browsers	Actions
<input type="checkbox"/>	1. copy of InvalidLogin https://robotwebdemo.herokuapp.com Cristiano Cunha	20 days ago Cristiano Cunha	20 days ago		...
<input type="checkbox"/>	2. copy of InvalidLogin https://robotwebdemo.herokuapp.com Cristiano Cunha XRAY Generic Test	20 days ago Cristiano Cunha	20 days ago		...
<input type="checkbox"/>	3. copy of InvalidLogin https://robotwebdemo.herokuapp.com Cristiano Cunha XRAY Link Test	20 days ago Cristiano Cunha	20 days ago		...

New Folder

3 Active0 Deleted

Import results to Xray

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

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

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

Create New Orchestration

Details

Integrations

Advanced

Title

Xray_integration

Projects

ComicStore (27842)

Environments

QA

Folders

Account

Tags

Select Tag

Test Cases

1 selected

Schedules

On Demand

Select Browsers

Firefox 77

Orchestration Run Type

Foreground

Background

TDM Run

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 Orchestration

DetailsIntegrationsAdvanced

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

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

Cancel

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".

Create New Orchestration

DetailsIntegrationsAdvanced

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

Fix Version

Select Fix \

Cancel

Add New

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

Confirm Test Cases

Please confirm the test cases that should be part of this orchestration.

#.	Test Case Name	Project Name	Environment
<input checked="" type="checkbox"/>	copy of InvalidLogin	ComicStore	QA
<input checked="" type="checkbox"/>	copy of InvalidLogin	ComicStore	QA
<input checked="" type="checkbox"/>	copy of InvalidLogin	ComicStore	QA

CancelSubmit

Once you are happy with the selection, press "Submit" and you will see a new Orchestration appearing in the list.

Orchestrations (3)						
<div><div><div></div><div>Bulk Action</div></div><div><div></div><div>Search...</div><div>Search</div></div></div> <div>Create New Orchestration</div> <div>1 - 3 of 3 Showing 10</div>						
Title	Schedule	Projects	Execution Details	Execute	Action	
<input type="checkbox"/> Xray_integration (21869) 3 mins ago	On Demand	ComicStore			<button>Actions +</button>	
<input type="checkbox"/> 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		<button>Actions +</button>	
<input type="checkbox"/> 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		<button>Actions +</button>	

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".

Orchestrations (3)						
<div><div><div></div><div>Bulk Action</div></div><div><div></div><div>Search...</div><div>Search</div></div></div> <div>Create New Orchestration</div> <div>1 - 3 of 3 Showing 10</div>						
Title	Schedule	Projects	Execution Details	Execute	Action	
<input type="checkbox"/> Xray_integration (21869) 10 mins ago	On Demand	ComicStore	Status: Processing		<div><div>Actions +</div><div>Orchestration Results</div><div>API Calls</div><div>Delete Orchestration</div></div>	
<input type="checkbox"/> 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		<div><div>Actions +</div></div>	
<input type="checkbox"/> 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		<div><div>Actions +</div></div>	

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.

The screenshot shows the Functionize Orchestration interface. At the top, there's a navigation bar with 'Projects', 'Reports', 'Orchestrations', 'TDM', and 'Team'. Below this, the 'Orchestrations' section is active, showing 'Xray_integration' as the selected orchestration. The header includes 'Xray Test Plan' (set to '(DEMO) Shopping'), 'Fix Version' (set to '1.0'), and a 'Submit To Xray' button. The main content area displays 'Orchestration > Xray_integration' with a date filter '3 mins ago - 2021-08-20 02:33:56' and a 'Compare Runs' button. Below this, there are two sections for browser results: 'Firefox' and 'Chrome'. Both sections show a green circle with the number '2' and the word 'PASSED'. To the right of each circle are statistics: Failures (0.00%), Warnings (0.00%), Passed (100.00%), and Incomplete (0.00%). At the bottom, a summary bar shows: 2 Test Cases, 4 Executions, 1 min 41 secs Execution Time, 08/20 Last Orchestration, 4 Executions Passed (34%), 0 Executions Failed (N/A), 0 Executions Warnings (N/A), and 0 Executions Incomplete (100%).

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.

This screenshot shows the same Functionize Orchestration interface as the previous one, but with a modal dialog open. The modal is titled 'Results sent to Xray' and contains the text 'New execution created with COM-141' and an 'Ok' button. The 'Submit To Xray' button in the header now shows 'XRAY COM-141' with a green checkmark, indicating that the results have been successfully sent to Xray. The rest of the interface remains the same.

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.

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Projects / ComicStore / COM-141

Xray_integration: 2021-08-20 09:38:28

Attach Create subtask Link issue Tests

Description

<https://app.functionize.com/account/share/orchestration/?code=df8975ce780e3399f9ced5f4cbdd3a16611f781d523f8>

Testcase	Env	Browser	Status	Exec Time	Dataset	Result Link
copy of InvalidLogin	QA	Firefox 77	PASSED	35s		Details
copy of InvalidLogin	QA	Chrome 85	PASSED	20s		Details
copy of InvalidLogin	QA	Firefox 77	PASSED	36s		Details
copy of InvalidLogin	QA	Chrome 85	PASSED	41s		Details

To Do

Details

Assignee Unassigned

Reporter Cristiano Cunha

Labels None

Fix versions 1.0

Priority Medium

Automation Rule executions

Test Plans Open Test Plans

Test Environments Open Test Environments

More fields Original estimate, Time tracking, Epic Link, Components, Sprint

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).

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Projects / ComicStore / COM-141

Tests

Add Tests

Overall Execution Status

2 PASSED TOTAL TESTS: 2

Filters 10 Columns

Rank	Key	Summary	Test Type	Dataset	#Defects	Status	Actions
1	COM-35	Change account details	Manual		0	PASSED	Details ...
2	COM-31	Login with valid credentials	Manual		0	PASSED	Details ...

Prev 1 Next Total 2 issues

Created 8 minutes ago Updated 8 minutes ago Configure

Details

Assignee Unassigned

Reporter Cristiano Cunha

Labels None

Fix versions 1.0

Priority Medium

Automation Rule executions

Test Plans Open Test Plans

Test Environments Open Test Environments

More fields Original estimate, Time tracking, Epic Link, Components, Sprint

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.

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ComicStore / Test Plan: COM-10 / Test Execution: COM-141 / Test: COM-35

Test 1 of 2

Change account details

Dataset

Import Execution Results

Execution Status

PASSED

Started On

20/Aug/2021 10:34 AM

Assignee

Unassigned

Versions

1.0

Test Environments

-

Finished On

20/Aug/2021 10:35 AM

Executed By

Cristiano Cunha

Revision

-

Findings

COMMENT

+

Defects

0

+

None

...

Evidence

0

+

None

...

Comment

Testcase	Env	Browser	Status	Exec Time	Dataset	Result Link
copy of InvalidLogin	QA	Firefox 77	PASSED	35s		Details
copy of InvalidLogin	QA	Chrome 85	PASSED	20s		Details

Learn more

- [Functionize home page](#)
- [Functionize Documentation](#)
- [Functionize Integration Documentation](#)
- [Functionize Architect \(web extension for Chrome\)](#)