



Agenda

- Introduction to XRAY
- Features of XRAY
- How to install Xray
- Getting started XRAY
 - Different Issue Types in Xray
 - Significance of these Issue Types in XRAY
 - How to Create a new project
 - Project details
 - Issue management
 - How to create a test
 - How to write Test Steps for the test
- Getting Started with XRAY
 - How to Call a test Step
 - How to Call a test
 - How to Create a Precondition
 - How to associate a Precondition to a Test
 - How to Create a test execution
 - How to Call a Test in Execution
 - Running a Test
 - How to Create a Test Set
 - Adding Tests to Test Set
 - Calling test Set to an execution
 - How to Create a Test Plan
 - Adding tests to artifacts
 - Using Test Plan
 - How to Create Parameters
 - Adding Parameters to Test
 - Types of Parameters

Introduction to XRAY

What is XRAY?

- Jira wasn't originally designed for test management.however in 2013,Xray debuted as a Jira add-on
- Xray is currently one of the most popular Jira add-ons as more companies are beginning to invest in testing
- Xray is a test Management solution as an App(add-on) To Jira server and cloud
- Xray supports a test Organization with
 - Test Management
 - Test Monitoring
 - Test Coverage
 - Test Execution
 - Test Reporting

➔ In a very professional and systematic approach

Features of XRAY

Feature Of XRAY

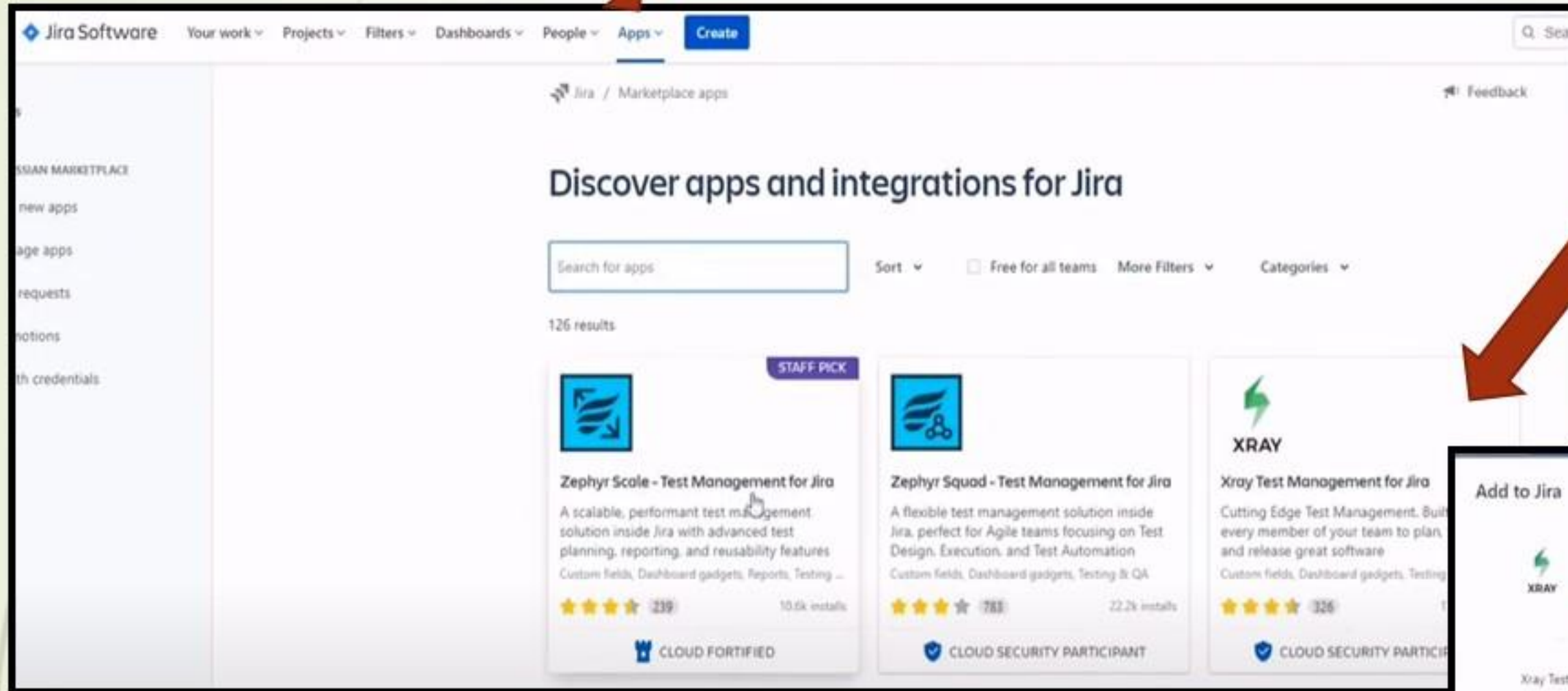
- Uses Jira issues for Test Management
 - Allows workflows and screens customization
 - Manages manual and Automated Tests , including Cucumber
 - Manages Data Sets to allow Data-Driven Testing
 - Promote test case reusability and composition with Modular Tests
 - Allows execution of manual Tests and stores execution results in Jira
 - Tracks Tests and requirements in real-time
 - Imports data from other systems (CSV,Zephyrfor Jira,HP ALM/QC)
 - Allow custom Test and step statuses

How to install Xray

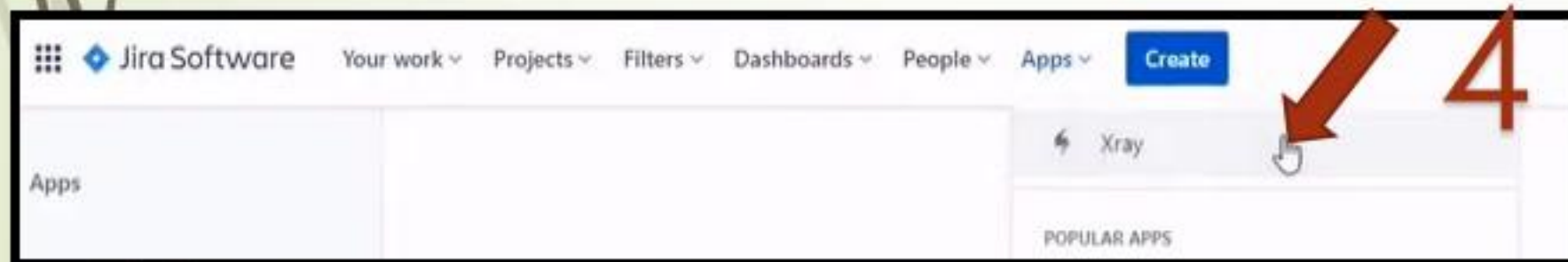
7

1

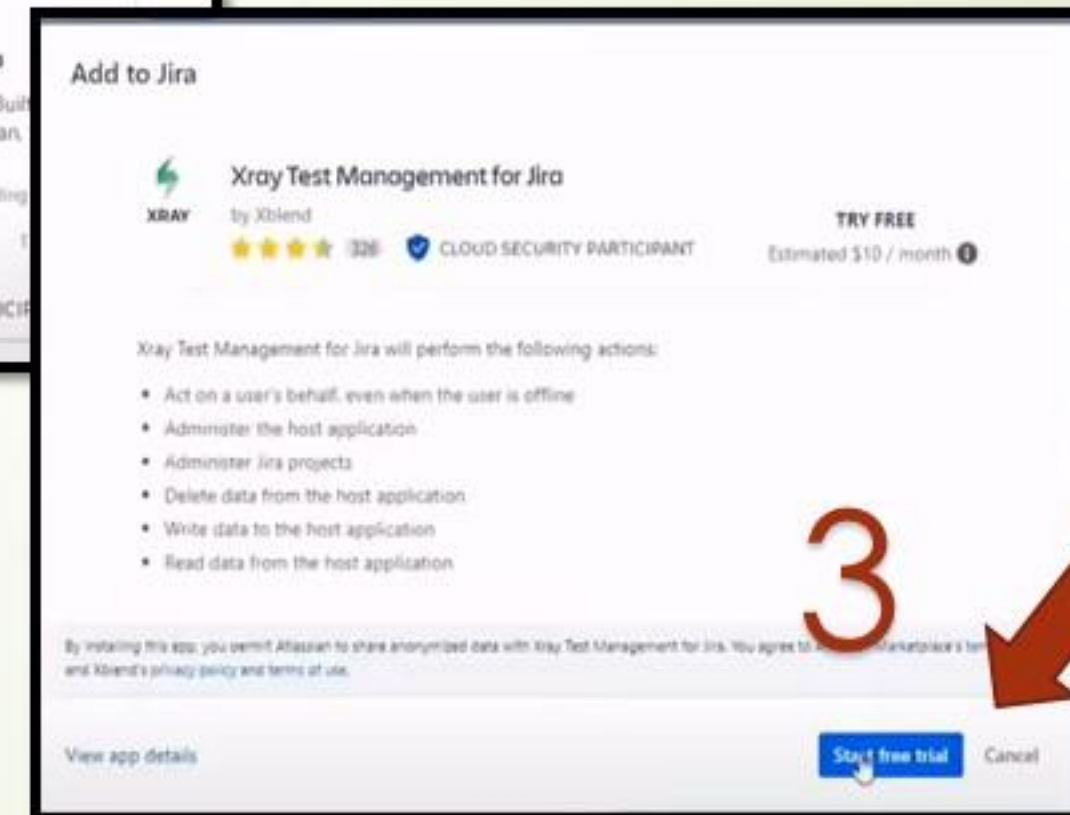
Install XRAY



2

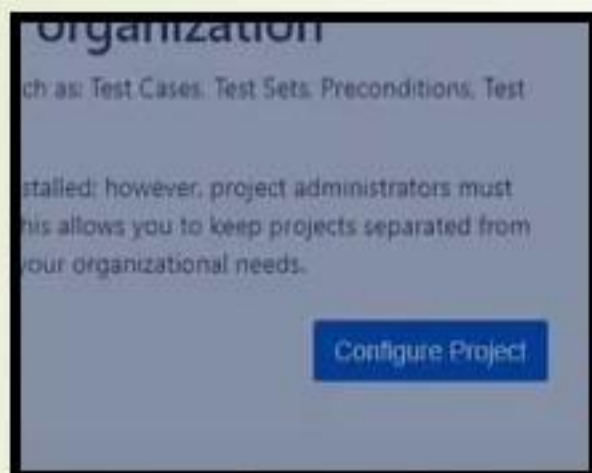


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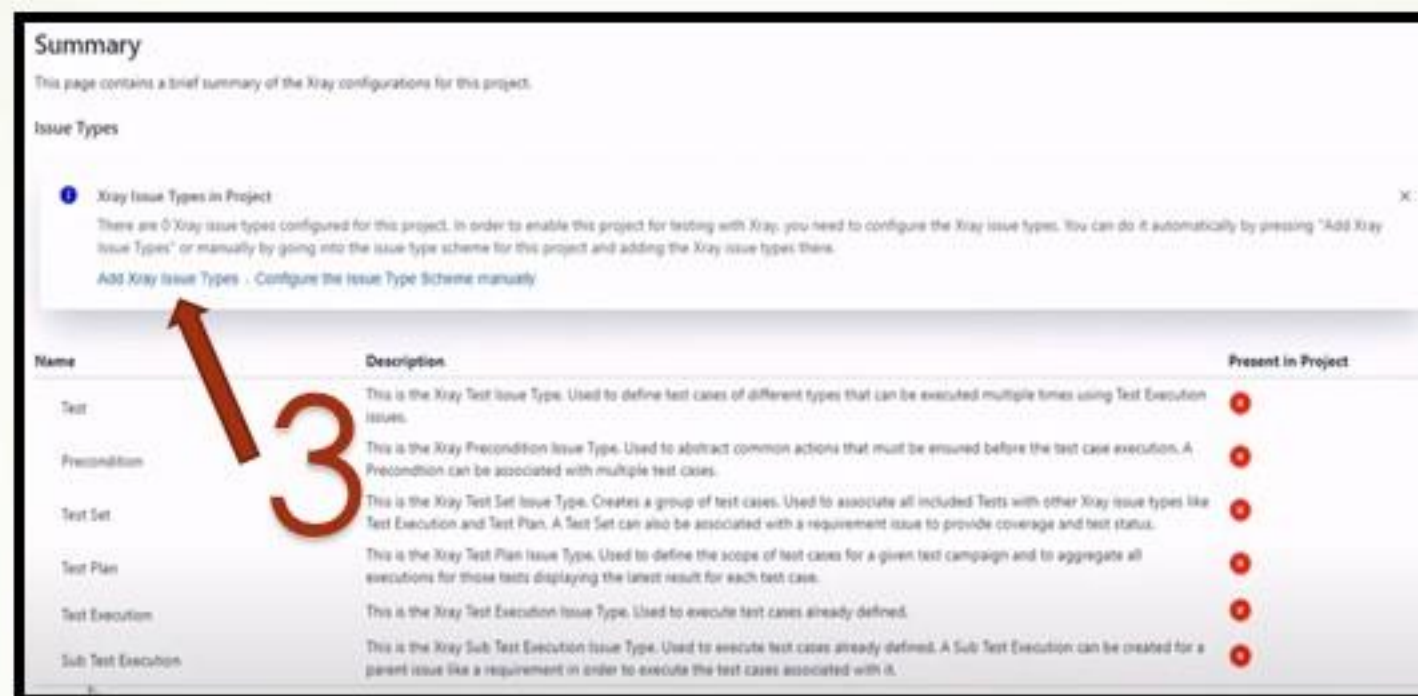
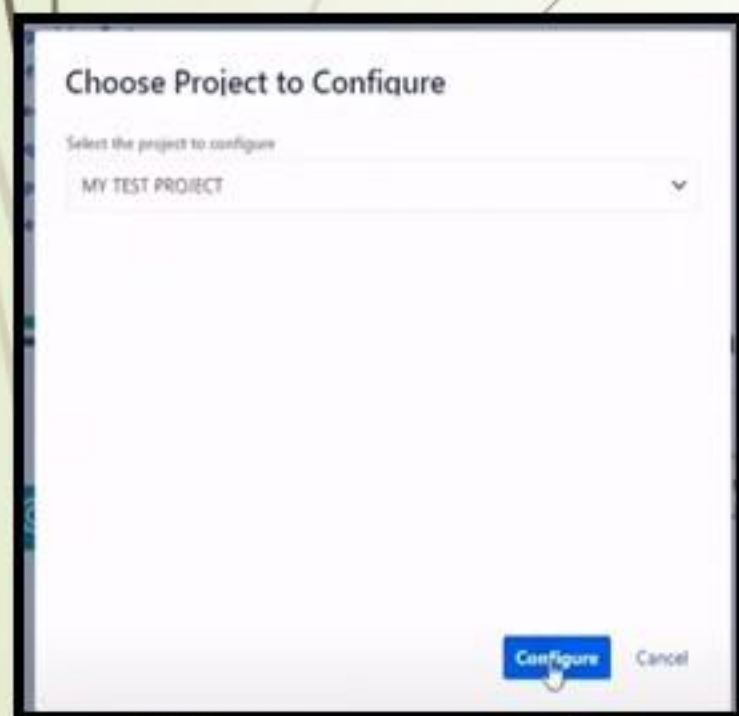


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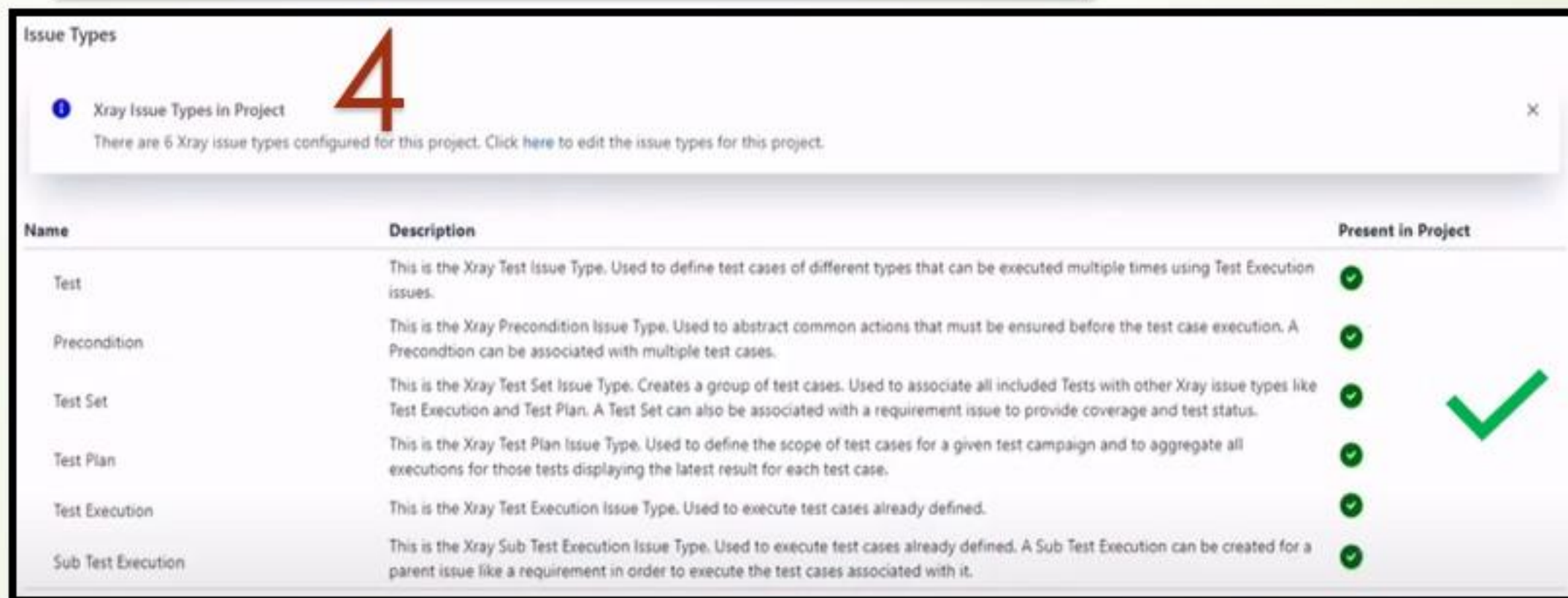
Configure Project with XRAY



2



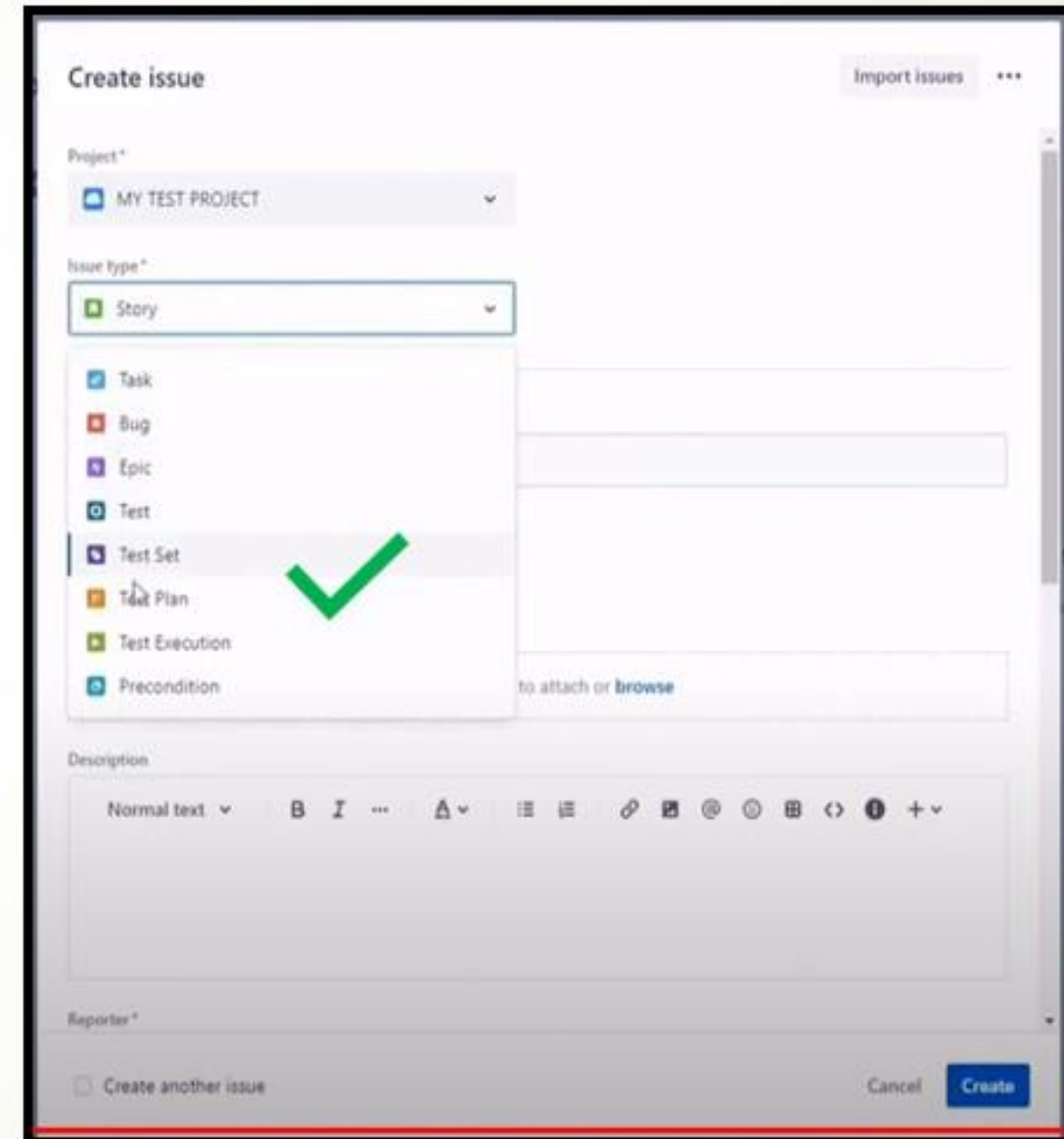
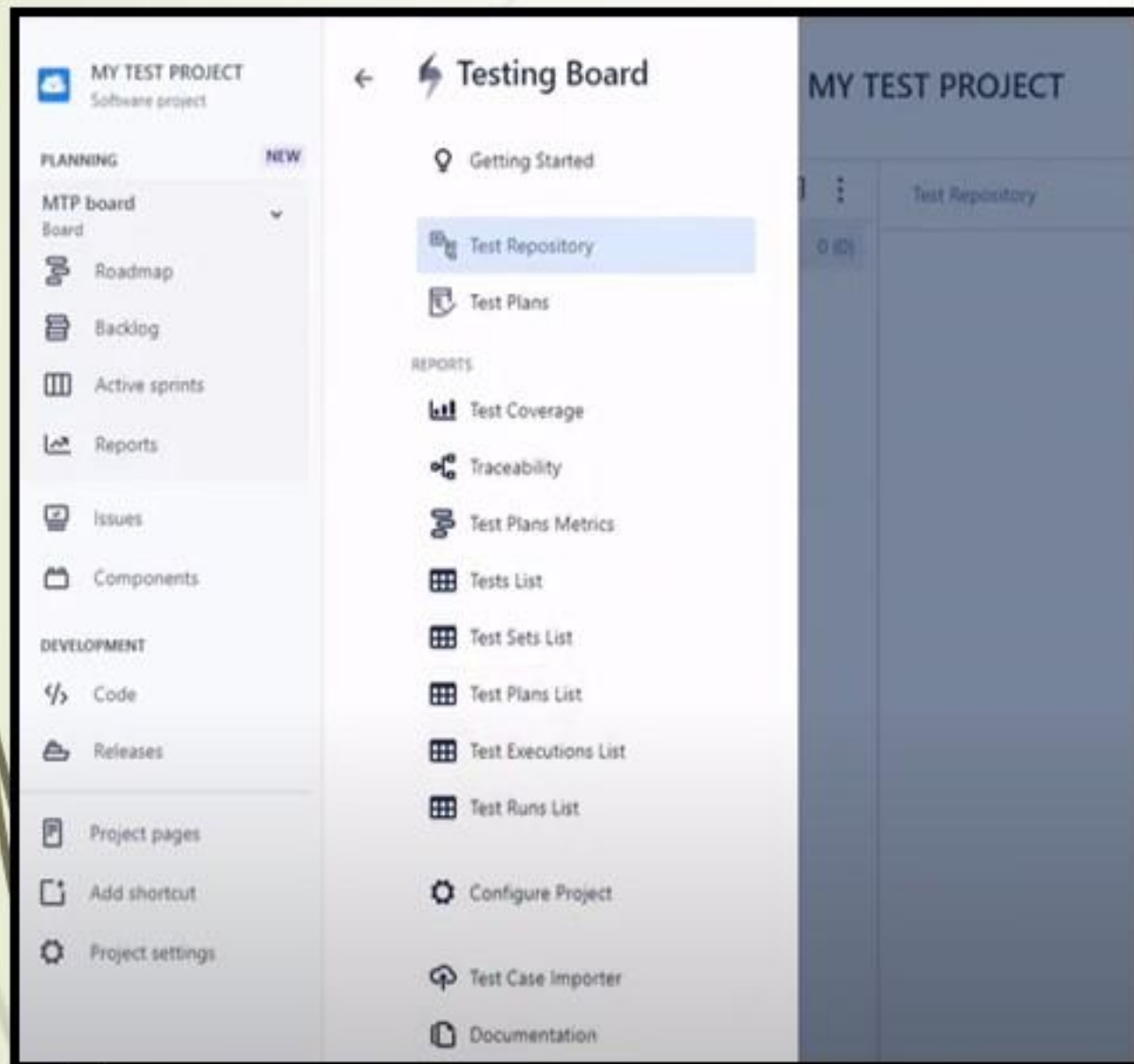
3



4



XRAY Testing elements



Getting started XRAY

Issue Types in Xray

- Default types High level definition
 - Test : create and write test cases
 - Test Set : multiple tests together (test suite)
 - Test Plan : like Epic (categorize tests example : system tests,unit tests...)
 - Test exécution : run the test
 - Precondition : prerequestes needed for different tests
 - Example : test login need a username and password

How to create a Project

- How to Create a new project
 - Click on Project > new Project > Scrum > essential features
 - Put Project Name and Key
 - Click on Go to Project
- Project details
 - Click on APP > XRAY > configure Project
 - Select your Project
- Issue management

Add project details

You can change these details anytime in your project settings.


Name *

Access Anyone with access to sialaom0209 can access and administer this project. [Upgrade your plan](#) to customize project permissions.

Key ⓘ *


☐ **Connect repositories, documents, and more**
Sync your team's work from other tools with this project for better visibility, access, and automation.

Template [Change template](#)



Scrum
Sprint toward your project goals with a board, backlog, and roadmap.

Type [Change type](#)



Team-managed
Control your own working processes and practices in a self-contained space.

[Cancel](#) [Next](#)

How to create a Project


- Issue management
 - Go to issue type and related default issue types
 - Go to app > xray > issue Type Mapping and map your issues

Xray Settings

- Summary
- Issue Types Mapping**
- Miscellaneous
- Test Coverage
- Defect Mapping
- Test Types
- Test Environments
- Document Generator

Team-Managed Project Issue Types Mapping

The issue type configuration for this team-managed project.

 **Manual configuration required**
In order to configure Xray issue types for this team-managed project, you first need to create the issue types for the Xray entities you need, you must associated them below.


Test
Test
Precondition

Create issue type

Name *

Description

Icon

 [Change icon](#)

Create

Cancel

Creating a test in XRAY

- ▶ How to create a test
 - ▶ Type issue and select "Test"
- ▶ How to write Test Steps for the test

The screenshot shows the 'Add Step' dialog box in XRAY. The dialog has a title bar with 'Add Step' and 'Import' buttons. The main content area is divided into three sections: 'Action*', 'Data', and 'Expected Result'. The 'Action*' section contains the text 'Enter Username as Specified'. The 'Data' section contains the text 'hello1'. The 'Expected Result' section contains the text 'Username should be entered and displayed'. Each section has a rich text editor toolbar with options for bold, italic, text color, background color, bulleted list, numbered list, link, unlink, table, code, quote, indent, and outdent. At the bottom right of the dialog are 'Create' and 'Cancel' buttons.

Section	Content
Action*	Enter Username as Specified
Data	hello1
Expected Result	Username should be entered and displayed

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Creating a test in XRAY

- How to call a Test Step
- How to Call a Test

The screenshot shows the XRAY Test Repository interface. At the top, there's a breadcrumb 'Add epic / MSS-7'. Below it, the 'Test Type' is set to 'Manual'. A 'Dataset' button is visible. The main area shows a test step being added. The 'Action' field contains 'enter username as specified', the 'Data' field contains 'standard_user', and the 'Expected Result' field contains 'Username entered and displayed'. An 'Add Step' button is highlighted, and a dropdown menu is open showing options: 'IMPORT From json...', 'From test...', 'From csv...', 'From clipboard...', 'EXPORT To csv...'. The bottom of the screen shows tabs for 'Action', 'Data', and 'Expected Result'.

The screenshot shows the 'Import Steps From a Test' dialog. At the top, the 'Test Issue' is 'MSS-7'. Below it, a message says 'Select a Test to import the steps from'. There is a checkbox for 'Reset Current Test Steps'. A table lists the steps to be imported:

	Rank	Action	Data	Expected Result	#Attachments
<input type="checkbox"/>	1	* enter username as specified	standard_user	Username entered and displayed	0
<input type="checkbox"/>	2	enter password as specified	secret_sauce	password should be entered as masked	0
<input type="checkbox"/>	3	Click on login Button		User Home should be displayed	0

At the bottom right, there are buttons for 'Next', 'Back', and 'Cancel'.

Creating a Precondition in XRAY

- How to Create a Precondition
- How to associate a Precondition to a Test

Create issue

Project *

MyTestProject_SW_Scrum (MSS)

Issue type *

Precondition

Learn more

Status

To Do

This is the issue's initial status upon creation

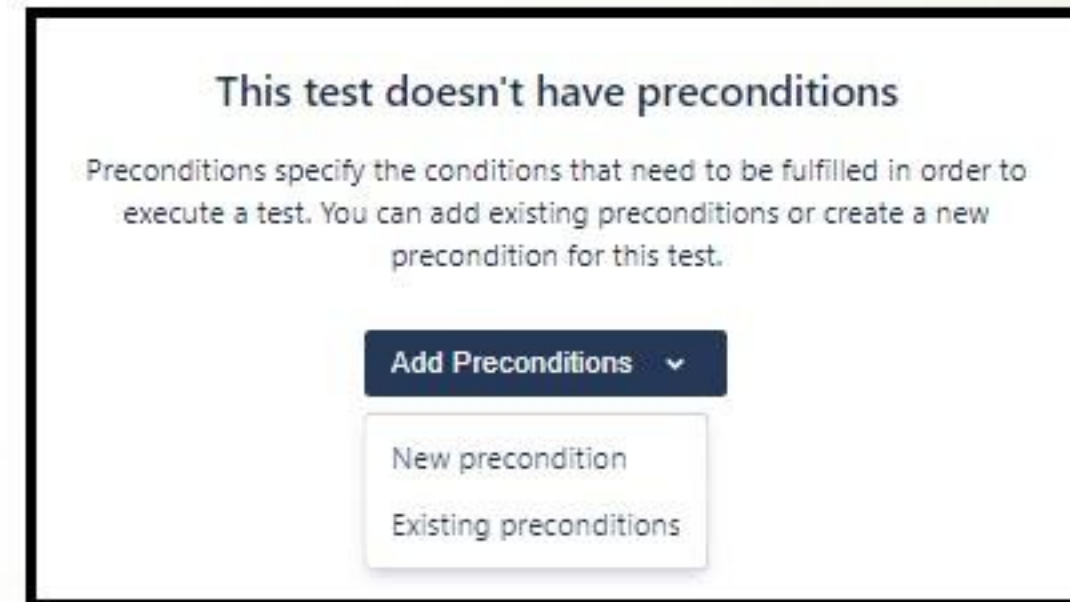
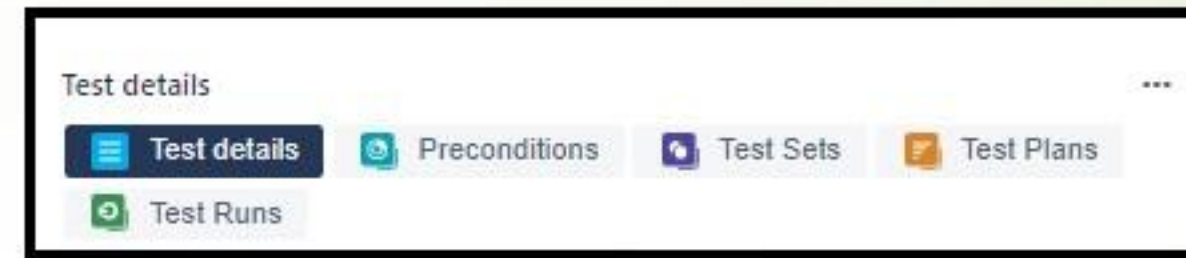
Summary *

User should be registered in saucedemo

Description

☐ Create another issue

Cancel Create



Add Preconditions to Test MSS-7

Select Search JQL

Start typing to get a list of possible matches or press down to select from a list of existing issues

MSS-11 x |

17

Creating a Test execution in XRAY

- How to Create a test execution
- How to Call a Test in Execution
- How to run a Test

Create issue

Project *
MyTestProject_SW_Scrum (MSS)

Issue type *
Test execution

Learn more

Status ⓘ
To Do

This is the issue's initial status upon creation

Summary
execute connections test

Description

☐ Create another issue

Cancel Create

Add Tests View on board

- New test
- Existing tests
- Tests from test sets

Execution Status FAILED	Timer 00:00:11 No time logged	Started On 28/Feb/2023 11:50 AM	Assignee Unassigned	Versions -
		Finished On 28/Feb/2023 11:51 AM	Executed By siala omar	Revision -

Steps

1	Action enter username as specified	Data standard_user	Expected Result Username entered and displayed
	Actual Result	Comment	Defects Evidence
			Step State PASSED
2	Action enter password as specified	Data secret_sauce	Expected Result password should be entered as masked
	Actual Result	Comment	Defects Evidence
			Step State PASSED
3	Action Click on login Button	Data None	Expected Result User Home should be displayed
	Actual Result	Comment	Defects Evidence
			Step State FAILED

Creating a Test execution in XRAY

Action	Data	Expected Result
Click on login Button	None	User Home should be displayed

Actual Result Comment Defects Step State FAILED

Create Defect

Create Sub-Defect

Add Defects

Activity

Create issue Import issues Configure fields

Project*
 MyTestProject_SW_Scrum (...)

Issue Type*
 Bug

Some issue types are unavailable due to incompatible field configuration and/or workflow associations.

Summary*

Description

[[Action]]Data[[Expected Result]]Actual Result]]
[* enter username as specified|standard_user|Username entered and displayed|-]
[enter password as specified|secret_sauce|password should be entered as masked|-]
[Click on login Button|-|User Home should be displayed|-]

☐ Create another Create Cancel

Creating a Test execution in XRAY

- How to Create a Test Set
- Adding Tests to Test Set
- Calling test Set to an execution

This test execution doesn't contain any tests

This panel shows the tests scheduled to be run in this issue. You can add existing tests or test sets to this test execution or create new tests.

Add Tests

View on board

New test

Existing tests

Tests from test sets

Projects / MyTestProject_SW_Scr... / Add epic / MSS-13

First Test Suite User Connection

Attach Add a child issue Link issue Tests ...

Description
Add a description...

Tests

Add Tests

Filters

	Rank	Key	Summary	Status	Actions
<input type="checkbox"/>	1	MSS-7	Check that users with valid password and username ar...	TO DO	...
<input type="checkbox"/>	2	MSS-10	CLONE - Check that users with valid password and wro...	TO DO	...

Prev 1 Next

Total 2 issues

View on board

Add Test Sets to Test Execution MTP-22

Select Search JQL

Start typing to get a list of possible matches or press down to select from a list of existing issues

Select issues

SELECTED (SEARCHING FOR 1 MATCHING ISSUE)

MTP-21

Select Test Set

Creating a Test execution in XRAY

- How to Create a Test Plan
- Adding tests to artifacts
- Using Test Plan

The screenshot displays the XRAY web interface for a test plan titled "test Plan for sprint 2". The interface includes a sidebar on the left with a list of test plans: "MSS-16 test Plan for sprint 2" and "MSS-15 Test Plan for sprint 1". The main content area shows the test plan details, including a description field, a "Tests" section with tabs for "Tests" and "Test Executions", and an "Overall Execution Status" section. The "Tests" section shows a list of tests with columns for Key, Summary, Assignee, #Test Executions, Dataset, Latest Status, and Actions. The "Overall Execution Status" section shows a progress bar and a summary of 3 tests to do.

Order by Created +

- MSS-16 test Plan for sprint 2
- MSS-15 Test Plan for sprint 1

Projects / MyTestProject_SW_Scr... / Add epic / MSS-16

test Plan for sprint 2

Attach Add a child issue Link issue Tests ...

Description
Add a description...

Tests

Tests Test Executions

Add Tests Create Test Execution

View on board

Overall Execution Status All Environments, final status

3 TO DO TOTAL TESTS: 3

Only My Issues Filters 10 Columns

Key	Summary	Assignee	#Test Executions	Dataset	Latest Status	Actions
MSS-7	Test : Logged users should be able to click on one pro...	siala omar	1		TO DO	...
MSS-10	Test : Users with valid credentials should be able to con...	siala omar	1		TO DO	...
MSS-8	Test : users with invalid credentials should not be able t...		1		TO DO	...

Prev 1 Next Total 3 issues

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How to create parameters

- How to Create Parameters
- Adding Parameters to Test
- Types of Parameters

Test : user should be able to select products and add them to cart



Description

Add a description...

Test details



Test Type

Manual

Test Repository

Dataset

Dataset for Test MSS-22

There are a total of 15 iterations to execute.

Combinatorial parameters

product

Backpack

T-shirt

Bike light

#	username	password	result
1	standard_user	secret_sauce	valid
2	locked_out_user	secret_sauce	invalid
3	problem_user	secret_sauce	valid
4	performance_glitch_user	secret_sauce	valid
5	wrongUserName	secret_sauce	invalid