



**Department of Computer Science and Engineering
(IoT, Cybersecurity with Blockchain Technology)
B.Tech. Sem: VII Subject: Software Testing & Quality Assurance**

Experiment 7

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Aim: - To Integrate Jira with Katalon Studio to generate defect reports.

Steps:

- 1) Visit Plugin Store from the profile

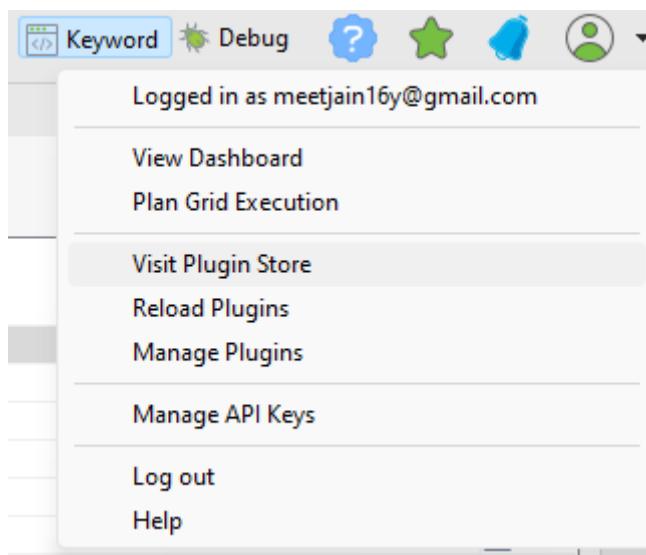


Fig 1

- 2) Search Jira plugin and go to Jira Integration

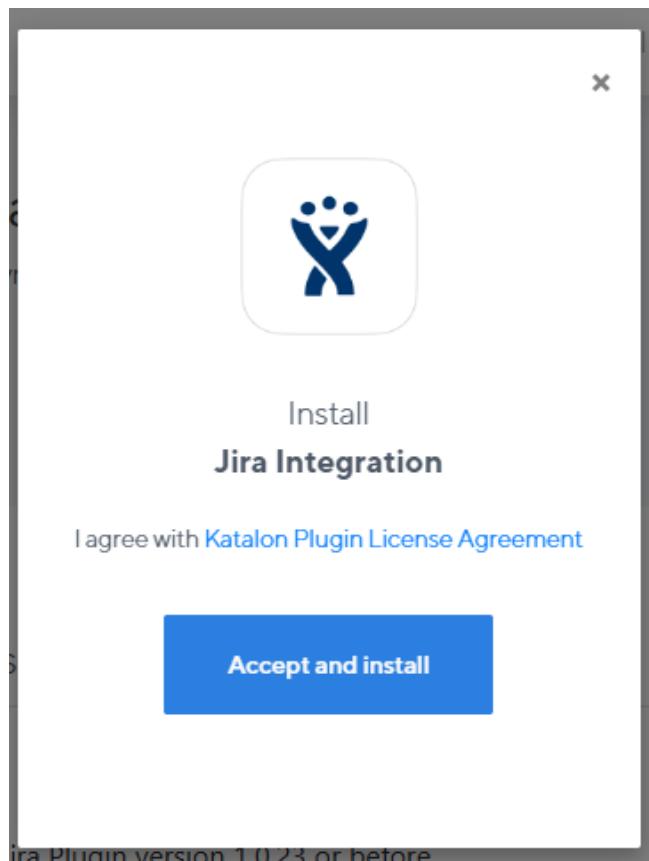
The screenshot shows the Katalon Store search results for 'jira'. The search bar at the top contains the word 'jira'. Below the search bar, there are filters for Type (All), Sort by (Default), Price (All), and buttons for 'Build your own' and 'Publish plugins'. Two plugins are listed: 'Jira Integration' and 'AIO Tests for Jira Integration'. The 'Jira Integration' plugin is marked as 'FREE' and has a rating of 5 stars with 13.8K reviews. The 'AIO Tests for Jira Integration' plugin also has a rating of 5 stars with 270 reviews.



3) After Signing in Click Install

The screenshot shows the Katalon Store interface. At the top, there is a navigation bar with the Katalon Store logo, a search bar labeled "Search plugins" with a magnifying glass icon, a "Products" link, a "Docs" link, and a "Sign in" link with a user icon. Below the navigation, a plugin card for "Jira Integration" is displayed. The card features a blue circular icon with three stylized human figures, the text "Jira Integration", a brief description "Link to Jira tickets, sync results, and submit issues.", a rating of "★★★★★", and a download count of "13.8K". A prominent blue "Install" button is located on the right side of the card.

4) Accept and install





5) Reload Plugin to verify the integration

The screenshot shows the Katalon Studio interface. At the top, there is a context menu with the following options:

- Keyword
- Debug
- ?
- ★
- ?
- User icon

Below the menu, it says "Logged in as meetjain16y@gmail.com". The menu items are:

- View Dashboard
- Plan Grid Execution
- Visit Plugin Store
- Reload Plugins (highlighted in grey)
- Manage Plugins
- Manage API Keys
- Log out
- Help

Below the menu, there is a "Plugins" dialog box. It has a table with one row:

Plugin	Version	Status
Jira Integration	1.2.2	Review Success

At the bottom of the dialog, it says "meetjain16y@gmail.com" and has a "Close" button.

6) Go to Jira Icon

The screenshot shows the Katalon Studio toolbar with the following icons from left to right:

- Red diamond icon
- Yellow square icon
- Blue X icon
- Green globe icon
- Blue globe icon
- Green circle icon
- Blue circle icon
- Green monitor icon
- Blue monitor icon
- Green plus icon
- Blue plus icon
- Green arrow icon
- Blue arrow icon
- Green arrow icon
- Blue arrow icon
- Green arrow icon
- Blue arrow icon

7) Click **Setting** and add all the values

Create an Atlassian Account with the same email ID registered to Katalon

Create an API token

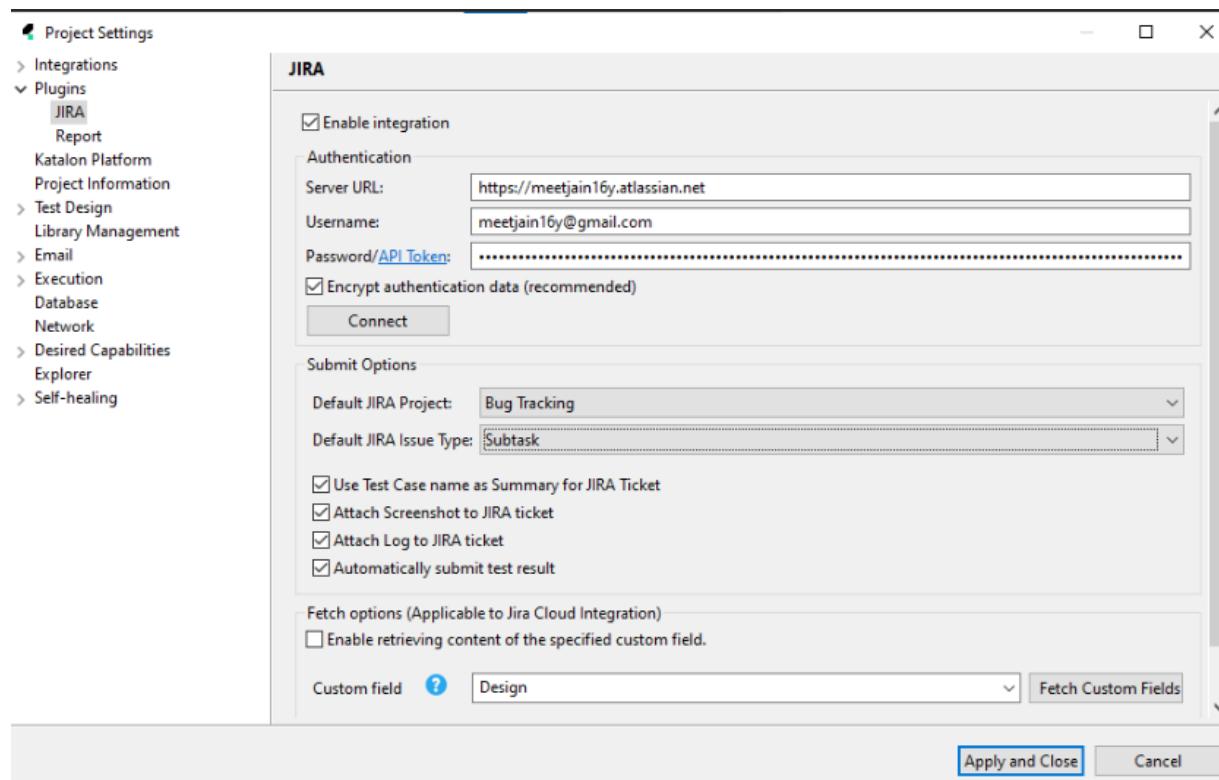
API tokens with an infinite lifespan pose a data security risk. To improve data security, by default we set API tokens to expire in one year. When you create an API token, you can set the expiration date to be from one day up to one year.

When you log in using a password or third-party login, we ask you to verify your identity before you can create API tokens. We'll email you a one-time passcode. [How to verify your identity](#)

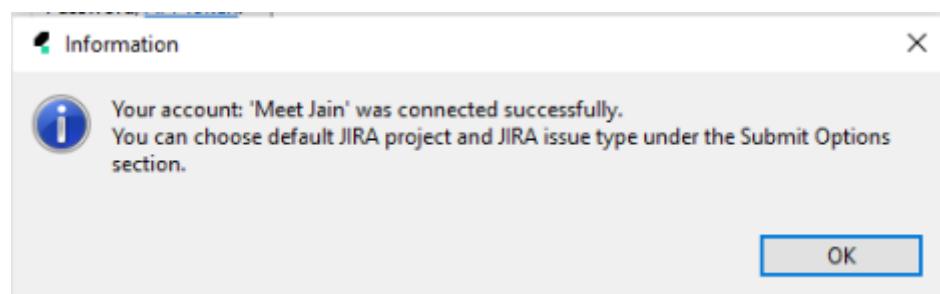


Create an API token from your Atlassian account:

1. Log in to <https://id.atlassian.com/manage-profile/security/api-tokens>.
2. Select **Create API token**.
3. Give your API token a name that describes what it does.
4. Select an **expiration date** for the API token.
 - a. Token expiration is 1 to 365 days.
5. Select **Create**.
6. Select **Copy to clipboard**, then paste the token to your script, or save it somewhere safe.

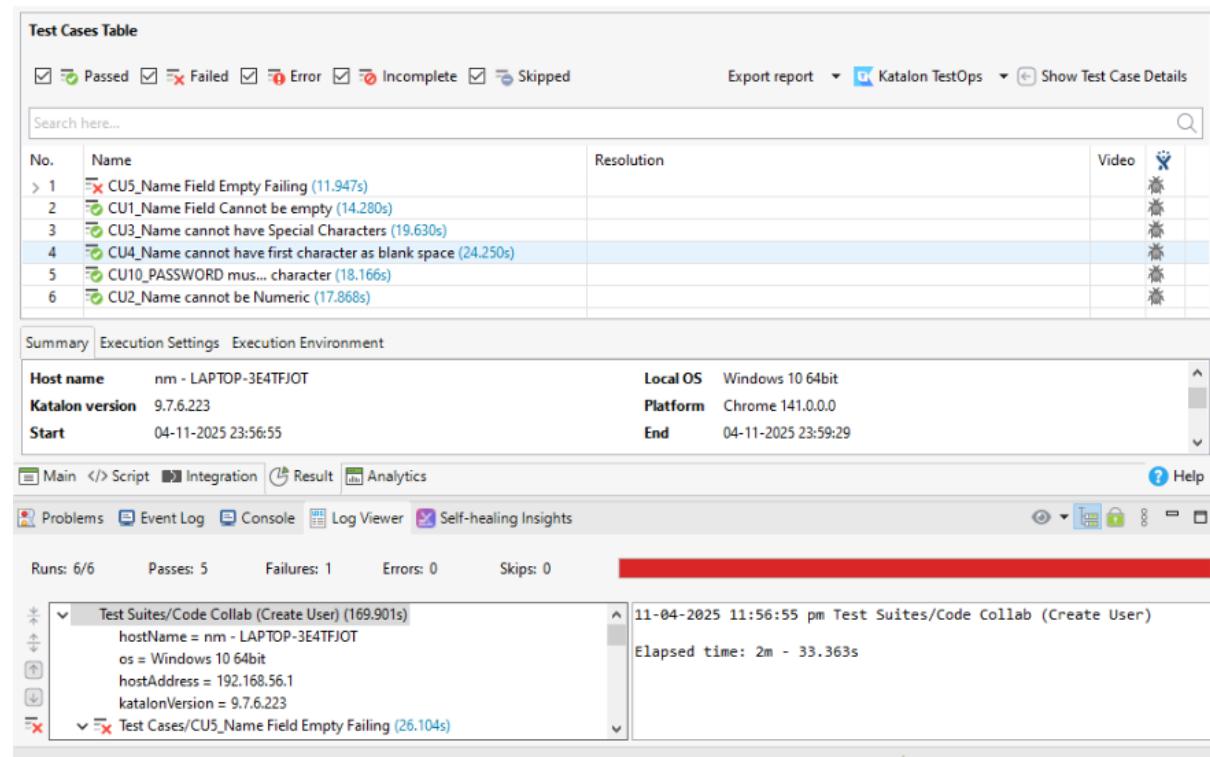


8) Click Connect and verify





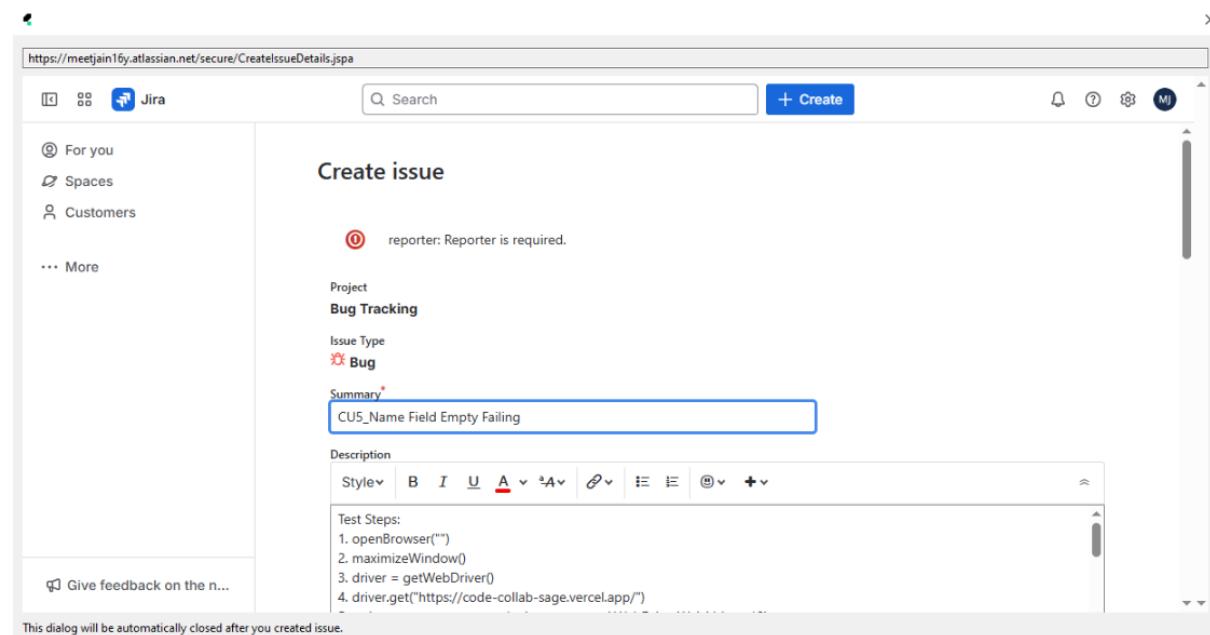
9) Run the Test Suite with a Defect



The screenshot shows the Katalon Studio interface. At the top, there is a 'Test Cases Table' with a search bar and filter options for Passed, Failed, Error, Incomplete, and Skipped status. Below the table, there are tabs for Summary, Execution Settings, and Execution Environment. The Execution Environment tab shows host name (nm - LAPTOP-3E4TFJOT), Katalon version (9.7.6.223), Start date (04-11-2025 23:56:55), Local OS (Windows 10 64bit), Platform (Chrome 141.0.0.0), and End date (04-11-2025 23:59:29). The main area displays a tree view of test suites and cases. A failed test case, 'CU5_Name Field Empty Failing (11.947s)', is expanded, showing its details and an error message: 'Test Suites/Code Collab (Create User) (169.901s) hostName = nm - LAPTOP-3E4TFJOT os = Windows 10 64bit hostAddress = 192.168.56.1 katalonVersion = 9.7.6.223'. The error message is 'Elapsed time: 2m - 33.363s'.

Name Field Cannot be Empty

10) Creating an Issue in Jira



The screenshot shows the Jira 'Create issue' dialog. On the left, there is a sidebar with links for 'For you', 'Spaces', 'Customers', and 'More'. The main area has a title 'Create issue' and a required field 'reporter: Reporter is required.' Below it, there is a 'Project' dropdown set to 'Bug Tracking', an 'Issue Type' dropdown set to 'Bug', and a 'Summary' input field containing 'CUS_Name Field Empty Failing'. The 'Description' section includes a rich text editor toolbar and a text area with the following 'Test Steps':
1. openBrowser("")
2. maximizeWindow()
3. driver = getWebDriver()
4. driver.get("https://code-collab-sage.vercel.app/")



11) Linked Jira Issues

Linked JIRA issues

Add Edit Remove

ID	Summary	Status
SCRUM-5	CU5_Name Field Empty Failing	To Do

OK Cancel

12) JIRA Report

meetjain16y.atlassian.net/browse/SCRUM-5

Jira

For you

Spaces

Recent

Support

Get started

Summary

Queues

Views

Reports

Knowledge Base

AI agents

Customers

Channels

Raise a request

Customer notifications

Add shortcut

Archived work items

Bug Tracking

Q Search

+ Create

See plans

CU5_Name Field Empty Failing

Description

Test Steps:

```
1. openBrowser("")  
2. maximizeWindow()  
3. driver = getWebDriver()  
4. driver.get("https://code-collab-sage.vercel.app/")  
5. wait = new org.openqa.selenium.support.ui.WebDriverWait(driver, 10)  
6. signUpBtnBy = By.xpath("//button[normalize-space()='Sign Up']")  
7. signUpBtn = wait.until(ExpectedConditions.elementToBeClickable(signUpBtnBy))  
8. signUpBtn.click()  
9. wait.until(ExpectedConditions.visibilityOfElementLocated(By.id("display-name")))  
10. displayNameElem = driver.findElement(By.id("display-name"))  
11. emailElem = driver.findElement(By.id("email-address"))  
12. displayNameElem.clear()  
13. displayNameElem.sendKeys("")  
14. emailElem.click()  
15. validationMsg = displayNameElem.getAttribute("validationMessage")  
16. logInfo("Validation message captured: " + validationMsg)  
17. if (validationMsg != null && toLowerCase().contains("fill out this field"))
```

To Do

Pinned fields

Click on the next to a field label to start pinning.

Details

Assignee

Meet Jain

Priority

Medium

Parent

None

Due date

None

Labels

None



Spaces

Bug Tracking ...

Summary Backlog Board Code Timeline Pages Forms +

Filter

0 completed
in the last 7 days

5 updated
in the last 7 days

5 created
in the last 7 days

1 due soon
in the next 7 days

Status overview

Get a snapshot of the status of your work items. View all work items



Recent activity

Stay up to date with what's happening across the space.

Yesterday

Meet Jain changed the Assignee to Meet Jain on SCRUM-5: CU5_Name Field Empty Failing [TO DO]
1 day ago

Meet Jain attached a file to SCRUM-5: CU5_Name Field Empty Failing [TO DO]
1 day ago

Meet Jain attached a file to SCRUM-5: CU5_Name Field Empty Failing [TO DO]

Conclusion:

I have successfully performed and completed the integration of Jira with Katalon Studio to automatically generate defect reports. The setup enabled seamless creation of bug tickets directly from failed test cases. I validated the workflow using an intentionally failing test case to ensure proper defect logging. This experiment helped establish a clear link between automated testing and issue tracking for efficient QA management.