



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

Experiment 7

Name: Hiren Darji

SAP ID: 60019230114

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

Steps:

- 1) **Visit Plugin Store** from the profile

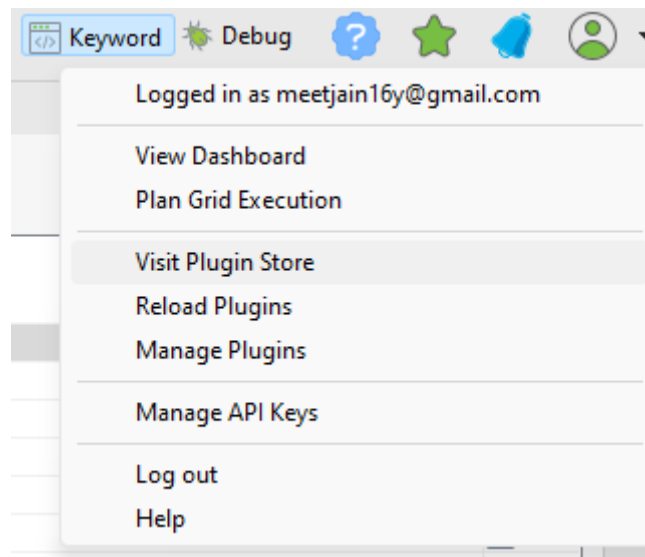
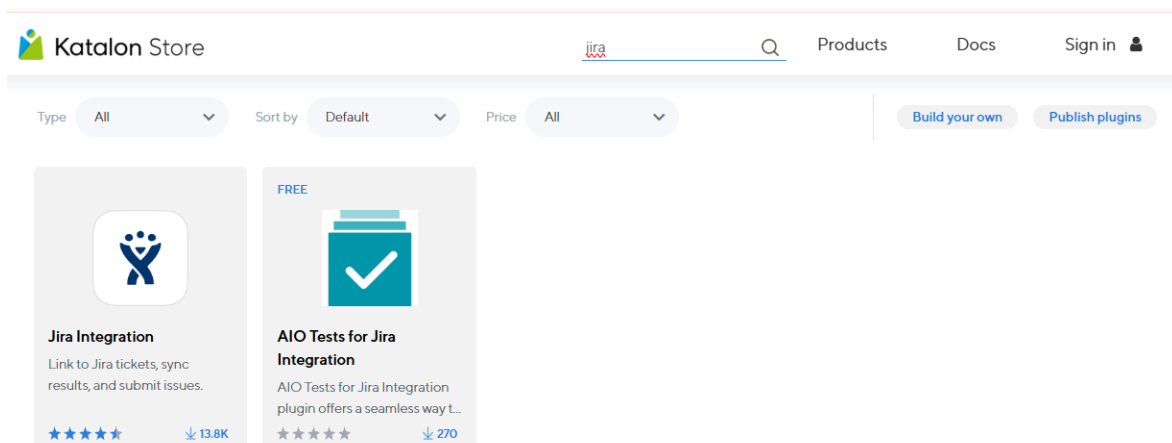


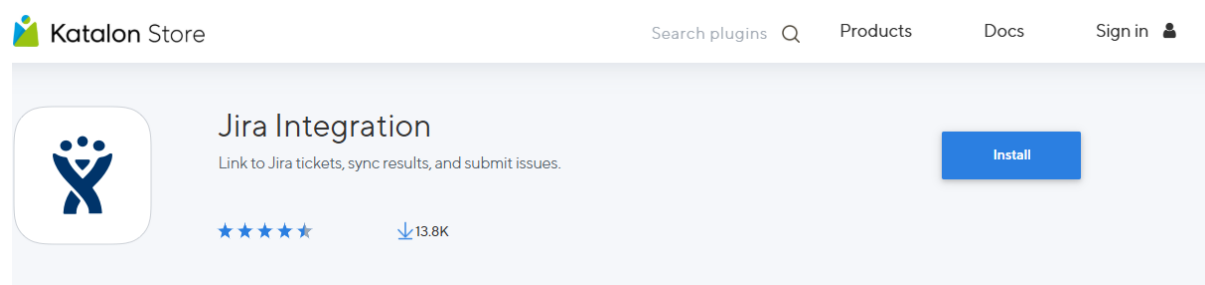
Fig 1

- 2) **Search Jira plugin and go to Jira Integration**

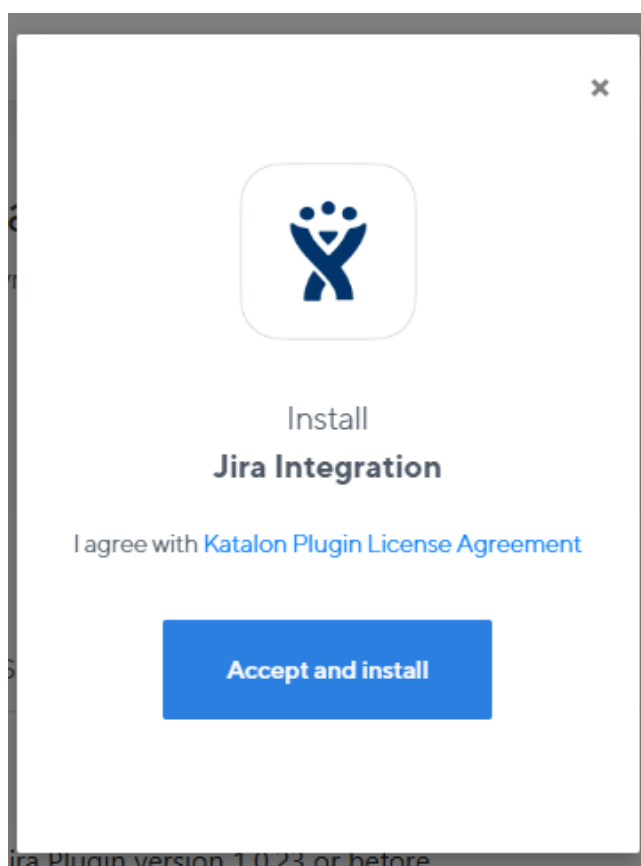




3) After Signing in Click Install

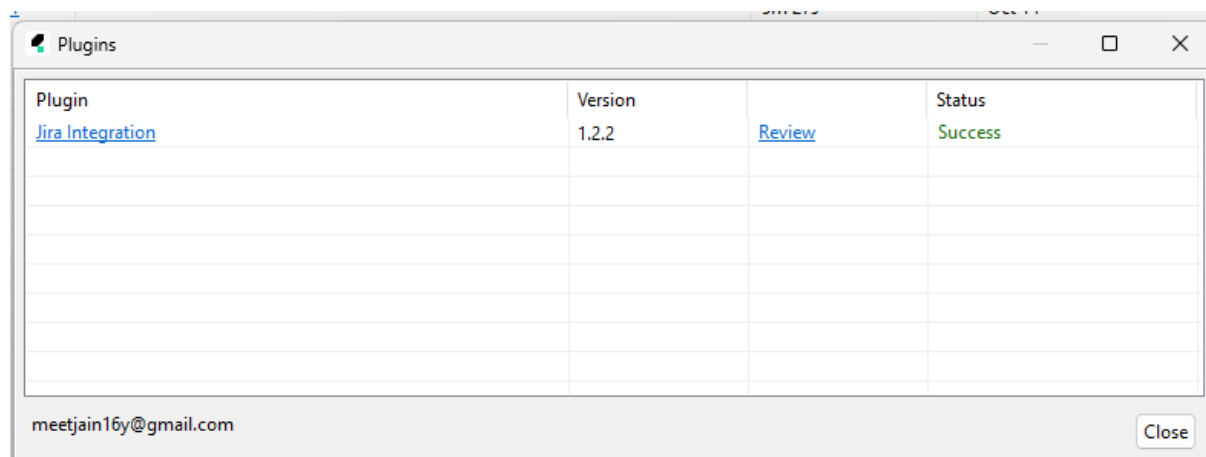
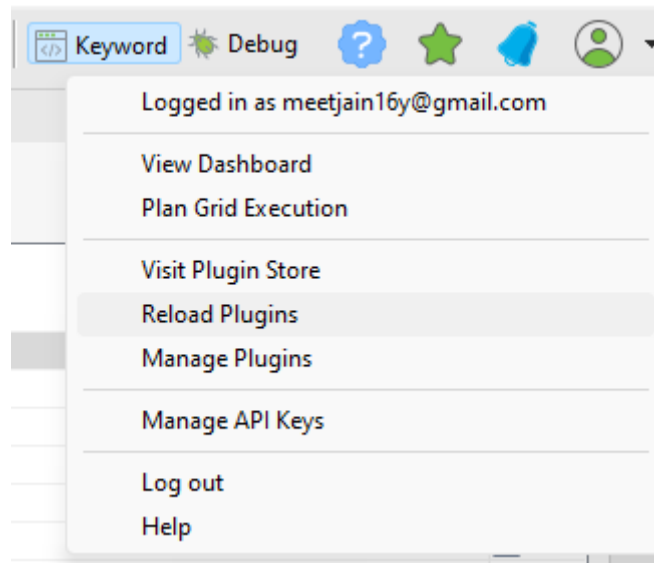


4) Accept and install





5) Reload Plugin to verify the integration



6) Go to Jira 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.

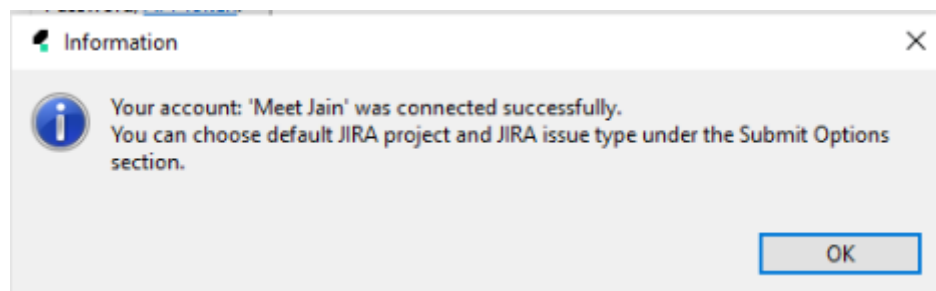
When you log in using a password or third-party login, we ask you to verify your identity before you can create API tokens. We'll email you a one-time passcode. [How to verify your identity](#)



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

Test Cases Table

☒ Passed ☒ Failed ☒ Error ☒ Incomplete ☒ Skipped

Export report

Search here...

No.	Name	Resolution	Video
> 1	CU5_Name Field Empty Failing (11.947s)		
2	CU1_Name Field Cannot be empty (14.280s)		
3	CU3_Name cannot have Special Characters (19.630s)		
4	CU4_Name cannot have first character as blank space (24.250s)		
5	CU10_PASSWORD must have character (18.166s)		
6	CU2_Name cannot be Numeric (17.868s)		

Summary Execution Settings Execution Environment

Host name nm - LAPTOP-3E4TFJOT **Local OS** Windows 10 64bit
Katalon version 9.7.6.223 **Platform** Chrome 141.0.0.0
Start 04-11-2025 23:56:55 **End** 04-11-2025 23:59:29

Main

Problems Event Log Console Log Viewer Self-healing Insights

Runs: 6/6 Passes: 5 Failures: 1 Errors: 0 Skips: 0

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

Test Cases/CU5_Name Field Empty Failing (26.104s)

11-04-2025 11:56:55 pm Test Suites/Code Collab (Create User)
Elapsed time: 2m - 33.363s

Name Field Cannot be Empty

10) Creating an Issue in Jira

https://meetjain16y.atlassian.net/secure/CreateInfoDetails.jspa

Jira Search

For you Spaces Customers ... More

Create issue

☒ reporter: Reporter is required.

Project **Bug Tracking**

Issue Type **Bug**

Summary

Description

Style

Test Steps:

1. openBrowser("")
2. maximizeWindow()
3. driver = getWebDriver()
4. driver.get("https://code-collab-sage.vercel.app/")

Give feedback on the n...

This dialog will be automatically closed after you created issue.

12) JIRA Report

The screenshot displays the Jira web application interface. At the top, the browser address bar shows the URL 'meetjain1gy.atlassian.net/browse/SCRUM-5'. The Jira header includes a search bar, a '+ Create' button, and a 'See plans' button. The left sidebar contains navigation links for 'For you', 'Spaces', 'Recent', 'Support', 'Get started', 'Summary', 'Queues', 'Views', 'Reports', 'Knowledge Base', 'AI agents', 'Customers', 'Channels', 'Raise a request', 'Customer notific...', 'Add shortcut', 'Archived work items', and 'Bug Tracking' (which is currently selected). The main content area shows the bug report for 'CU5_Name Field Empty Failing'. The bug is in the 'Bug Tracking' view, assigned to 'Meet Jain', and has a 'Medium' priority. The description contains a list of 17 test steps that detail the process of opening the browser, maximizing the window, logging in, and attempting to save a new customer, which results in a validation error.

Spaces / Bug Tracking / Add epic / SCRUM-5

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 ⚡ ⚙️ Improve Bug

Pinned fields

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

Details

Assignee
MJ Meet Jain

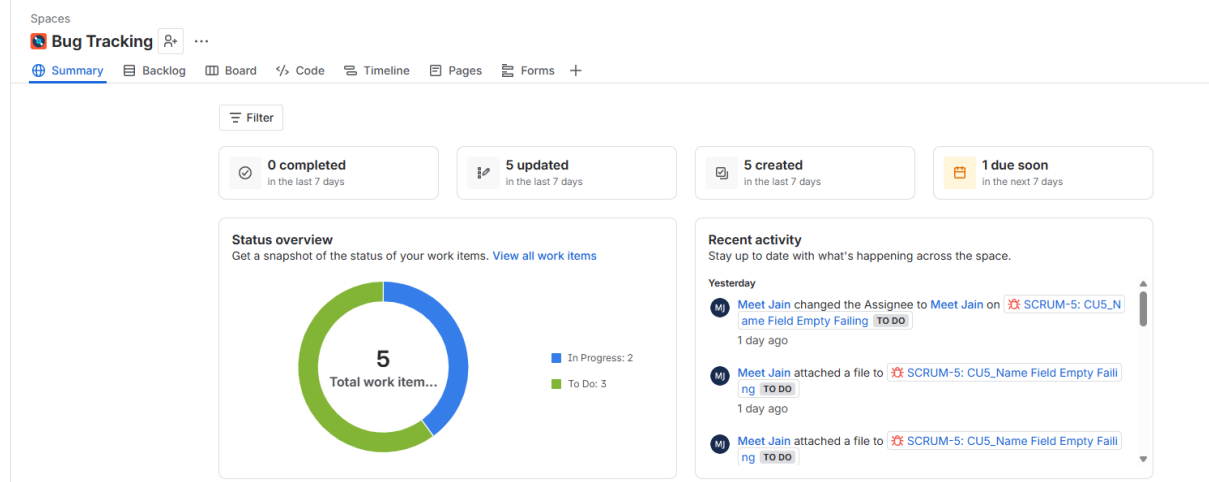
Priority
= Medium

Parent
None

Due date
None

Labels
None

Give feedback on the n...



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