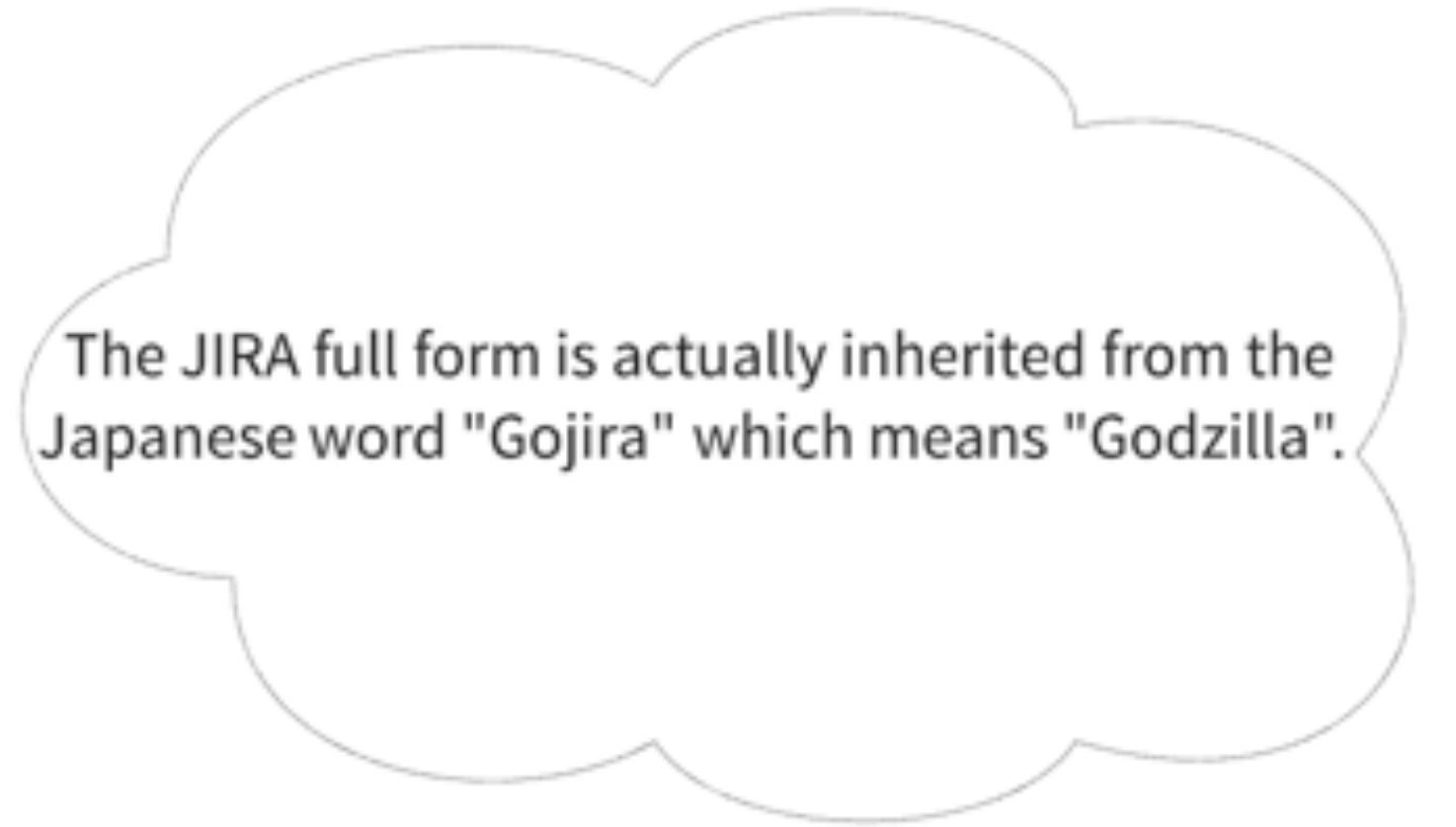# Jira Software

## What is Jira?

JIRA is the ideal environment for Test Management  app developed by Atlassian company

- Project **Management**
- Defect **Tracking** (bugs)
- **Collaboration** / Comments
- Customizable and adaptable
- Advanced **Workflow** capabilities
- Searching
- Work **Assignment**
- Relating **issues** using **links**
- **Importing** & **export issues**
- **Reports**

The JIRA full form is actually inherited from the Japanese word "Gojira" which means "Godzilla".

- Jira has around 1700 plugins like : Jira-Xray , jIra-Zepyr, JExcel, etc.

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**Xray** supports the *entire* testing life cycle: test **planning**, test **design**, test **execution** and test **reporting**.

- **Permission** control

- Implementation of **Workflows**

- **Custom fields** for each issue type

- **Assignment**, Changes **tracking**

- **Xray Report**s

- Test case document - step by step or Cucumber senario version

- **Test Execution** status - attach evidence  - add coments - create bug issue

# Jira vs Jira-Xray

## Jira issues:

🔖 User Story    🔴 Bug

## Jira - Xray issues:

⚡ Epic    ✓ Task    ⚪ Test case    ▶ Test Execution    Sub task, Pre-Condition, etc

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# User Story

User Story (US) is created by PO/BA or acting SM. As its name says, it represents a US and should contain detailed information such as Acceptance Criteria, Environment, Description, Story Point etc.

USs are the only JIRA issues that are moved to the active sprint in the product backlog tab. So that the progress in the sprint could be monitored by tracking the USs at the Agile/JIRA board.

# Test

Tests are created by the testers and they are based on the acceptance criteria of a US. This is why it has to be linked to its US in JIRA. Test represents a test case designed to test a scenario. Therefore, a tester should create a Test for each scenario of every acceptance criteria of a US.

All the test steps are defined inside of a Test in addition to its description. Test should be linked to its US and to a Test Execution. It can also be linked to a Test Set if needed.

## Test Details

Type: **Manual**

**Dataset**

### Manual Steps:

Steps dialog · Grid · Add Step · ...

| | Action | Data | Expected Result |
|---|---|---|---|
| 1 | User go to the login page | url of login page | user should see the login page tile as "Login - Library" |
| | Attachments (0) | | |
| 2 | users enter user credentials | user name: user1@library.com user24@library.com user65@library.com user89@library.com Password: UserUser | user should be able to enter valid credentials in the input boxes |
| | Attachments (0) | | |
| 3 | user click login button | None | user should see 3 modules om the page: Dashboard Books Users |

> Checklists

**Test case with Cucumber style**

### Test Details

Type:

Scenario Type:

Scenario:

**Cucumber**

**Scenario**

Given librarian is on the loginPage
Then verify that the title is "Login - Library"
When librarian enters valid email address and password
And librarian click sign in button
Then verify that there are 3 moduals the page

Edit Steps

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# Test Execution

Test Execution is created by the testers in order to track and reflect execution of the test cases related to a US. Therefore, all Tests or Test Sets related to a US are included in the respective Test Execution. While a test case is being executed, a screenshot for each step is taken as a proof of execution & result, and attached into the Test Execution's respective test steps. At the end of the test, the result is reflected in Test Execution as PASS or FAIL.

Jira Sample / JS-84

**manually testing login function of library**

Edit | Add comment | Assign | More ∨ | To Do | In Progress | Workflow

∨ **Details**

| | | | |
|---|---|---|---|
| Type: | ▶ Test Execution | Status: | |
| Priority: | = Medium | Resolution: | |
| Labels: | None | | |
| Environment: | QA2 env: | | |
| | https://library2.cybertekschool.com/#books | | |

**2** PASS  **1** FAIL

**Total Tests: 3**

Filter(s)

Show 10 ∨ entries     Columns ▾

| | | Rank | Key | Summary | Test Type | #Req | #Def | Test Sets | Assignee | Dataset | Status | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ☐ | 1 | JS-80 | librarian login successfully | Cucumber | 0 | 0 | | Asiya | | PASS | ▶ | ··· |
| | ☐ | 2 | JS-81 | Student login successfully | Cucumber | 0 | 0 | | Asiya | | PASS | ▶ | ··· |
| | ☐ | 3 | JS-82 | login with invalid data to Library app | Cucumber | 0 | 0 | | Asiya | | FAIL | ▶ | ··· |

Showing 1 to 3 of 3 entries     First  Previous  1  Next  Last
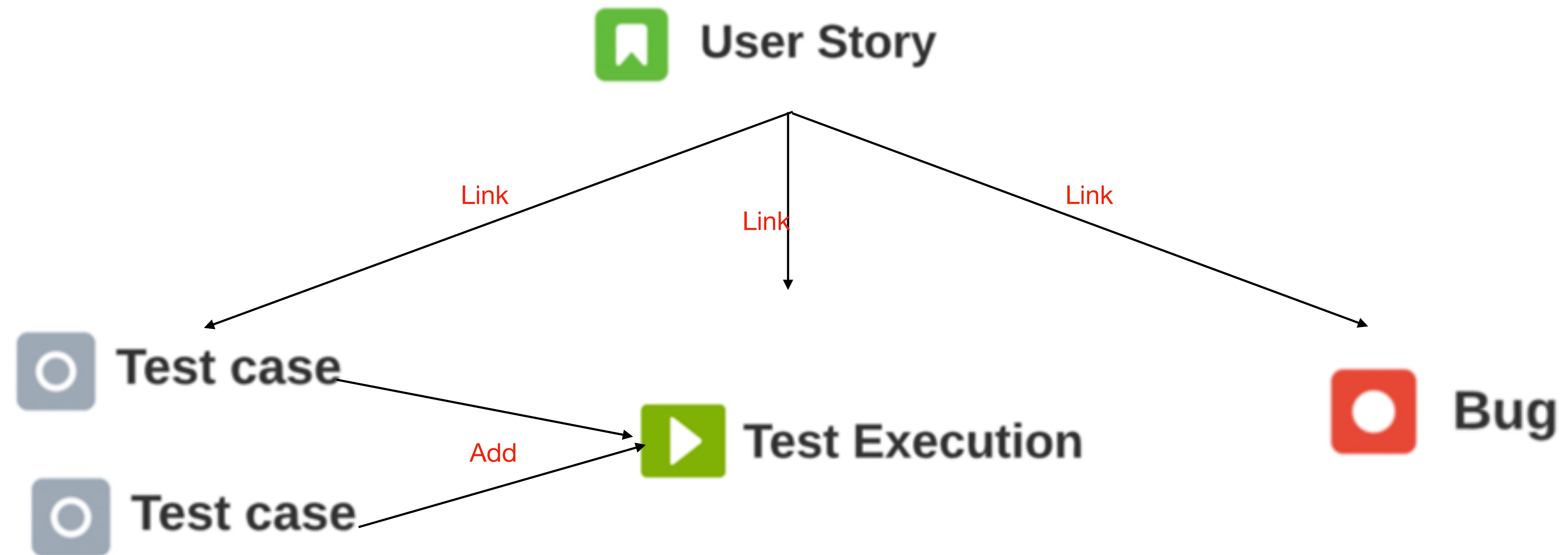
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**Bug** 

Bug is created by the testers and reflects a bug found when executing a test case or sometimes an exploratory testing. Therefore, Bug may be linked to a Test and to a US. A detailed description and a screenshot of the bug (a video if needed) should be provided in the Bug.

# Task ✅

In a Sprint, there might also be additional tasks that help testers to execute their responsibilities and to facilitate the work to be done. Sometimes these tasks can even be a prerequisite for testers to begin their work. Having the framework built, getting the environment ready, launching EC2 (Virtual Machine) on AWS might be examples. In JIRA, there is Task to reflect those tasks. This is created by the Scrum Master and assigned to a team member. Since the effort spent for the task cannot be reflected as points as it is for a US, working hours spent for the task are logged in the issue on a daily basis.

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# Issue Relationships

**CYDEO**

Dashboards ⌄    Projects ⌄    Issues ⌄    Boards ⌄    Tests ⌄    **Create**

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📖 NB_CRM ⌄ ← Project Name

🗄 **Backlog**

▥ Active sprints

🛳 Releases

📈 Reports

🖥 Issues

🧩 Components

⚡ Xray Reports

🔲 Xray Test Repository

**Project:** One project for one application, created & managed by SM & the business ream

**Backlog:** Product Backlog - List of To Do issues for the near future
Sprint Backlogs

**Active Sprint:** Track issues workflow
Daily Stand up
Demo
Workflow / Column is set with the the Scrum team

---

NB_CRM

**Active sprints**

QUICK FILTERS:    Only My Issues    Recently Updated

| TO DO | DEVELOPING | TESTING | DONE |

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# How to open the Jira? Where it is?