

Tutor: [Pavan Kumar](#)

Reference: [Youtube](#)

Course: [Manual Testing \(Full Course\)](#)

Content: **Jira Tool | Agile Project Management | FREE YouTube Live Session**

1. Document prepared by:

- a. [Rajat Verma](#)
 - i. <https://github.com/rajatt95>
 - ii. <https://rajatt95.github.io/>
 - iii. <https://www.linkedin.com/in/rajat-v-3b0685128/>

2. More documents:

- a. <https://github.com/rajatt95/Documents>

3. Last worked on this Document:

- a. Dec 28, 2022

4. Learnings from Tutor (Code Repository):

- a. This course
 - i. <https://github.com/stars/rajatt95/lists/youtube-pavan-manual-testing>
- b. Other course(s)
 - i. <https://github.com/stars/rajatt95/lists/youtube-pavan-kumar>

5. Links

- a. JIRA
 - i. <https://www.atlassian.com/software/jira>
 - 1. [Download Jira Software Server | Atlassian](#)

6. Course content:

a. [Jira Tool | Agile Project Management | FREE YouTube Live Session](#)

- i. [JIRA](#)
 - ii. [Agile Scrum Activities](#)
 - 1. How to create a Project?
 - 2. [How to add users to the project?](#)
 - 3. [How to create a Backlog?](#)
 - 4. [How to create stories and add story points?](#)
 - 5. [Create a Sprint in JIRA](#)
 - 6. [Add user stories in Sprint](#)
 - 7. [Start Sprint](#)
 - 8. [Add sub-tasks to user story](#)
 - 9. [Sprint Life Cycle](#)
 - iii. [Test Management Activities](#)
 - 1. [Create Test cases](#)
 - a. [Zephyr in JIRA](#)
 - 2. [Import Test cases](#)
 - 3. [Test Cycle](#)
 - 4. [Update Test Results](#)
 - a. PASS
 - b. FAIL
 - c. BLOCKED
 - 5. [Log Bugs](#)
 - 6. [Reports](#)
 - iv. [Test Summary Report](#)
-

=====Jira Tool | Agile Project Management | FREE YouTube Live Session=====

1. Tools

- a. Test Management - QTest
 - b. Bug/Defect Tracking - JIRA
 - c. Bug/Defect Reporting
 - d. Agile Tools
 - i. Used to automate the Agile process
 - ii. JIRA, Version One, Team city
-

1. JIRA

- a. Tool
 - i. Project Management
 - ii. Defect Tracking
 - b. Plugins
 - i. **Zephyr**
 - 1. To manage Test activities
 - a. Create Test cases
 - b. Status for the Test results
-

1. JIRA installation guide

- a. <https://www.atlassian.com/software/jira>
 - i. [Download Jira Software Server | Atlassian](#)
 - b. JIRA Cloud
 - i. Free version
 - 1. For the first 30 days, JIRA is free to use (10 members)
 - ii. Professional version
 - 1. You need to purchase the License
 - c. Atlassian team will give you an URL to access the JIRA
And, you can manage all your work using that URL
-

d.

The screenshot shows the Jira Software homepage. At the top, there's a banner for "Atlassian Presents: Unleash". Below it, a large heading says "Move fast, stay aligned, and build better - together". A subtext below reads "The #1 software development tool used by agile teams". There's a "Get it free" button. To the right, there's a sidebar with sections like "Subscriptions", "Check out features" (with items ETL-160, ETL-168, ETL-174), and "Page analytics".

e.

The screenshot shows the Jira Software board view. The top navigation bar includes "Plan", "Track", "Release", "Report", and "Automate". Below, a section titled "Plan" has a quote from "JEFF LAI, INTERNAL INFRASTRUCTURE, CANVA": "Work becomes a lot more visible when it's all in one place. It makes collaboration a whole lot easier." The main area is a Kanban board with four columns: "TO DO" (12 items), "IN PROGRESS" (4 items), "IN REVIEW" (4 items), and "DONE" (4 items). Each item has a small icon and a link labeled NUC-XXXX.

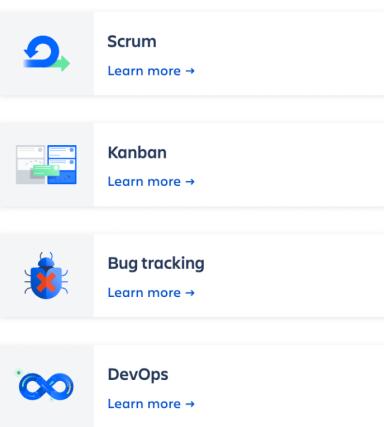


Features Product guide Pricing Enterprise

Get it free

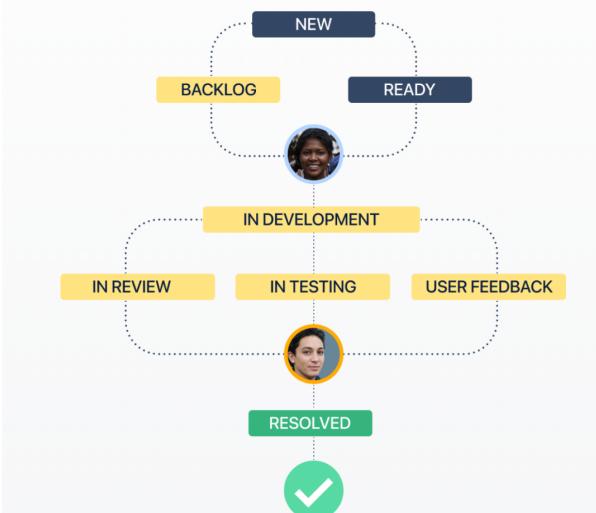
Templates give you a head start

Get started with ready-made templates.



Then customize as you grow

Jira adapts to the way you work, not the other way around.
Start simple, customize as you go.



f.



Our cloud products work even better together

Get another one for free

EACH PRODUCT ON A FREE PLAN:

- ✓ Supports up to 10 users or 3 agents
- ✓ Includes 2 GB of storage
- ✓ Offers Community support
- ✓ Is always free, no credit card needed

Larger team? [Compare plans](#)

YOU SELECTED



Jira Software
Project and issue tracking

SELECT A SECOND PRODUCT



Confluence

Document collaboration
Add context to your projects with a single source of truth for product requirements, release notes, and documentation.

Select



Jira Service Management

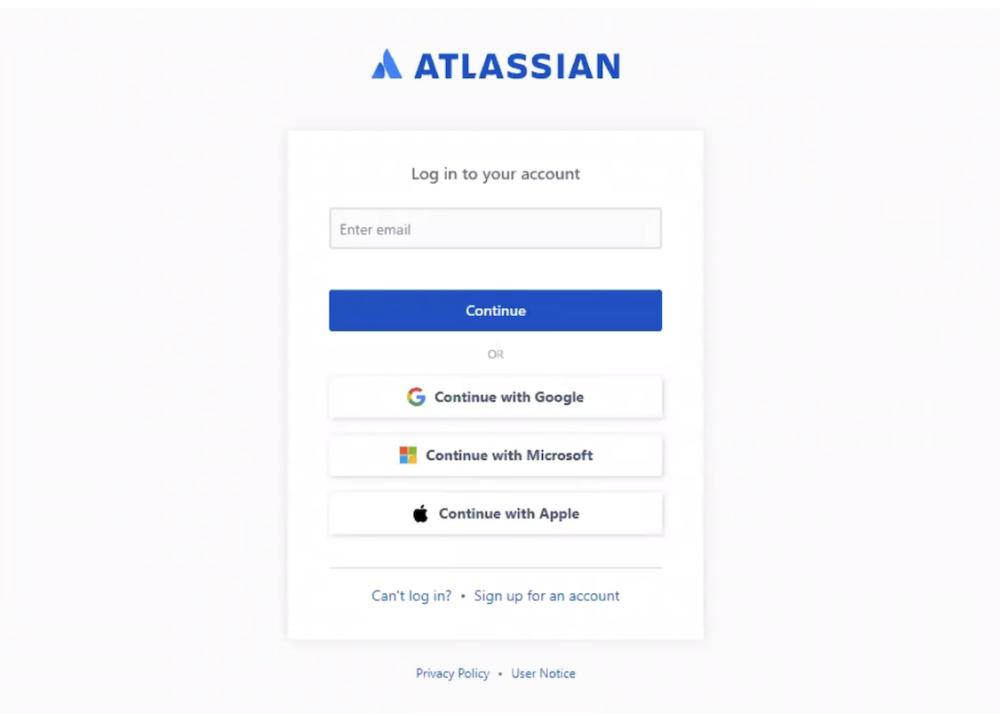
High-velocity ITSM
Empower Dev and Ops teams to collaborate at high-velocity, so they can respond to business changes and deliver service experiences fast.

Select

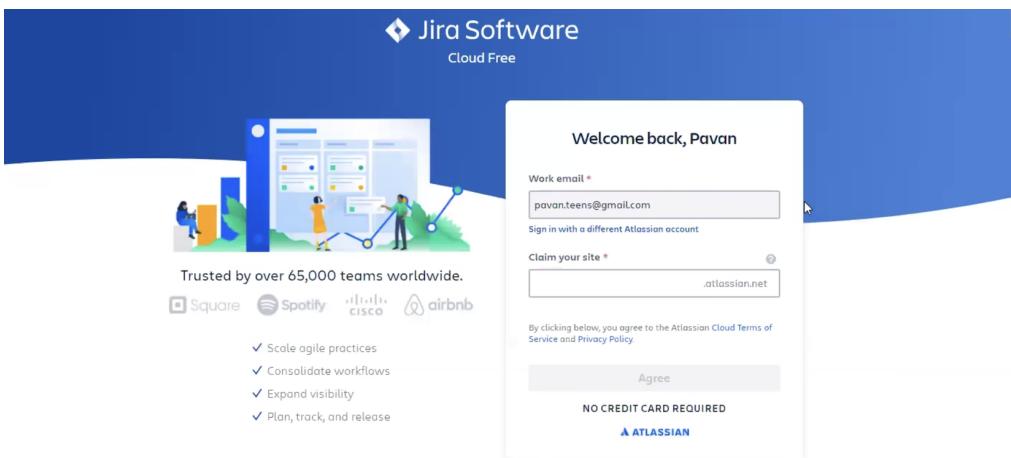
Next

NO CREDIT CARD REQUIRED

1.



2.

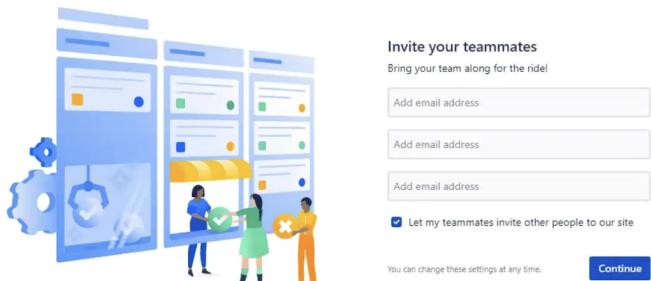


3.



Thanks for signing up! Our robots are working on your Atlassian Cloud site.
This won't take more than a minute or two. You'll be taken there once it's ready.

4.



5.

Choose a classic template

Classic templates have all the power and functionality you expect. They're created and managed centrally by a Jira admin using schemes.

Software Import your work

Kanban
Monitor work in a continuous flow for agile teams. Suits teams who control work volume from a backlog.

Scrum
Manage stories, tasks, and workflows for a scrum team. For teams that deliver work on a regular schedule.

Bug tracking
Manage a list of development tasks and bugs. Great for teams who don't need a board.

What's in this? **Select** What's in this? **Select** What's in this? **Select**

Looking for easy setup and reimagined features? [Try a next-gen template](#)

6.

Create project

Name

Key ⓘ

Template **Scrum**
Manage stories, tasks, and workflows for a scrum team. For teams that deliver work on a regular schedule.

[Change template](#)

Create

7.

Jira Software Your work Projects Filters Dashboards People Apps Create Search

Projects / Opencart / OC board

Active sprints

TO DO IN PROGRESS DONE

There are no active sprints
Start sprints in the [Backlog](#)

OC board Board Roadmap Backlog Active sprints Reports Issues Components Code Releases Project pages Add item Project settings

8.

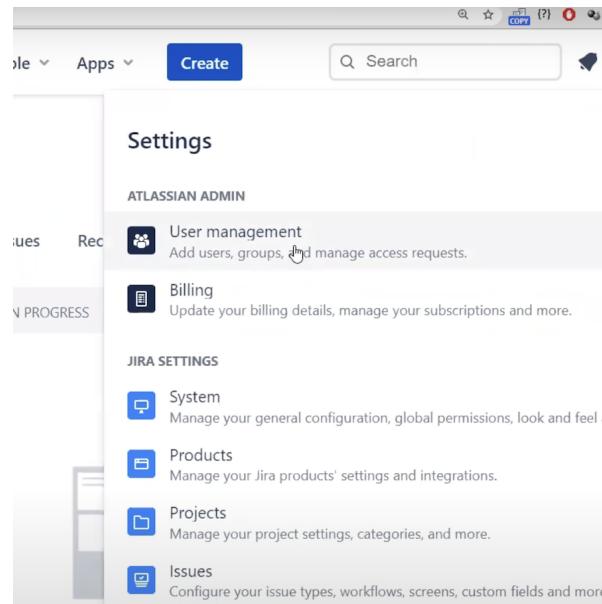
1. Agile Scrum Activities

a. How to create a Project?

- i. Project Name
 - ii. Key
-

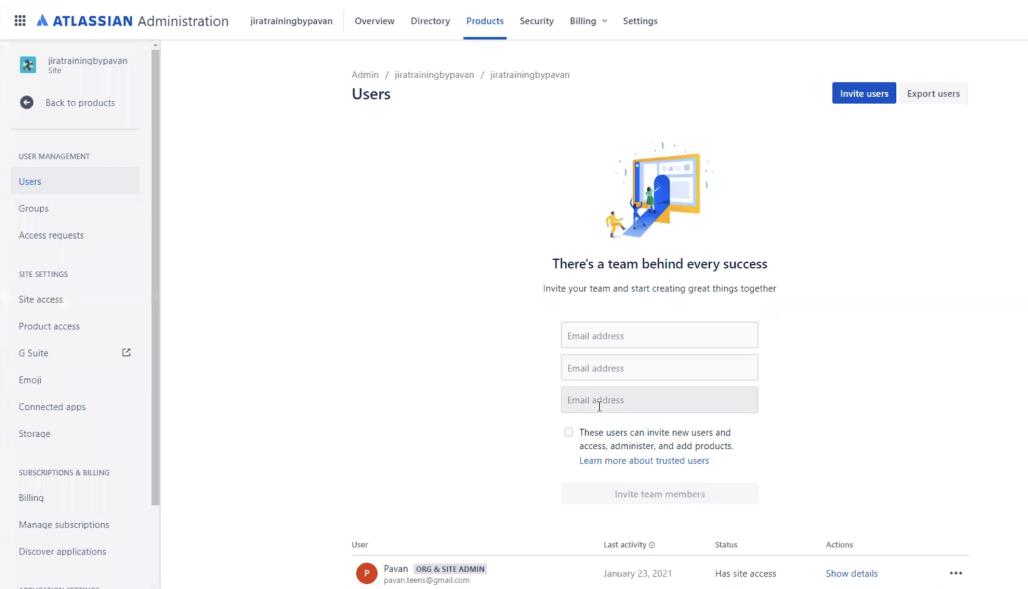
b. How to add users in project?

- i. Settings -> User Management



The screenshot shows the Jira Settings interface. At the top, there's a navigation bar with 'Role' and 'Apps' dropdowns, a 'Create' button, and a search bar. Below the navigation is a sidebar with 'Issues', 'Rec', and 'PROGRESS' buttons. The main content area is titled 'Settings' and contains two sections: 'ATLASSIAN ADMIN' and 'JIRA SETTINGS'. Under 'ATLASSIAN ADMIN', there are 'User management' (with a note to add users, groups, and manage access requests) and 'Billing'. Under 'JIRA SETTINGS', there are 'System', 'Products', 'Projects', and 'Issues'.

ii.



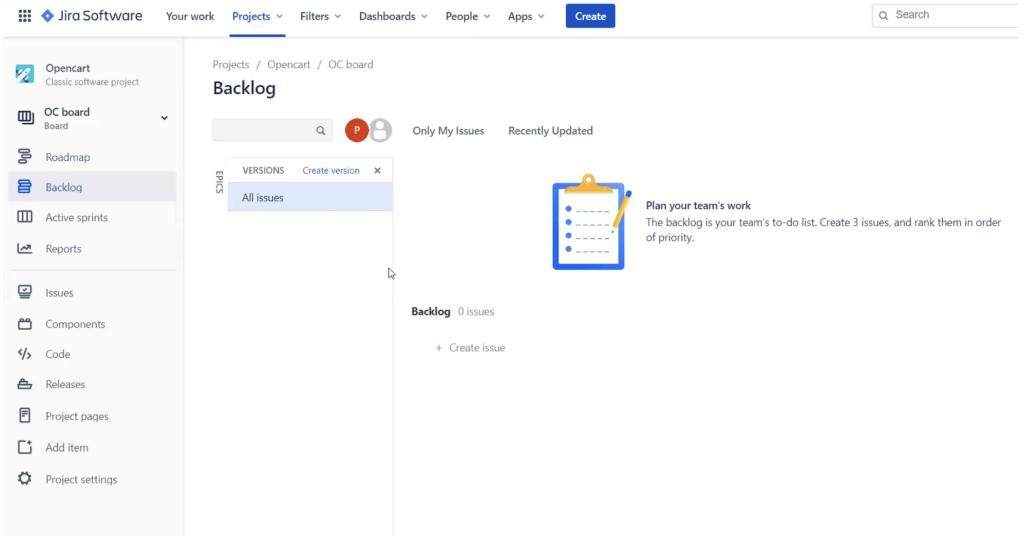
The screenshot shows the Atlassian Administration page for the site 'jiratrainingbpavan'. The top navigation bar includes 'Overview', 'Directory', 'Products' (which is selected), 'Security', 'Billing', and 'Settings'. The left sidebar has sections like 'USER MANAGEMENT' (with 'Users' selected), 'SITE SETTINGS' (with 'Site access' and 'Product access'), 'SUBSCRIPTIONS & BILLING' (with 'Billing' and 'Manage subscriptions'), and 'APPLICATION SETTINGS'. The main content area is titled 'Users' and features a banner with the text 'There's a team behind every success' and 'Invite your team and start creating great things together'. It includes fields for 'Email address' and a checkbox for 'These users can invite new users and access, administer, and add products'. A button 'Invite team members' is at the bottom. A table lists a user named 'Pavan (ORG & SITE ADMIN)' with email 'pavan.teens@gmail.com', last activity on 'January 23, 2021', status 'Has site access', and actions like 'Show details' and three dots.

iii.

c. How to create a Backlog?

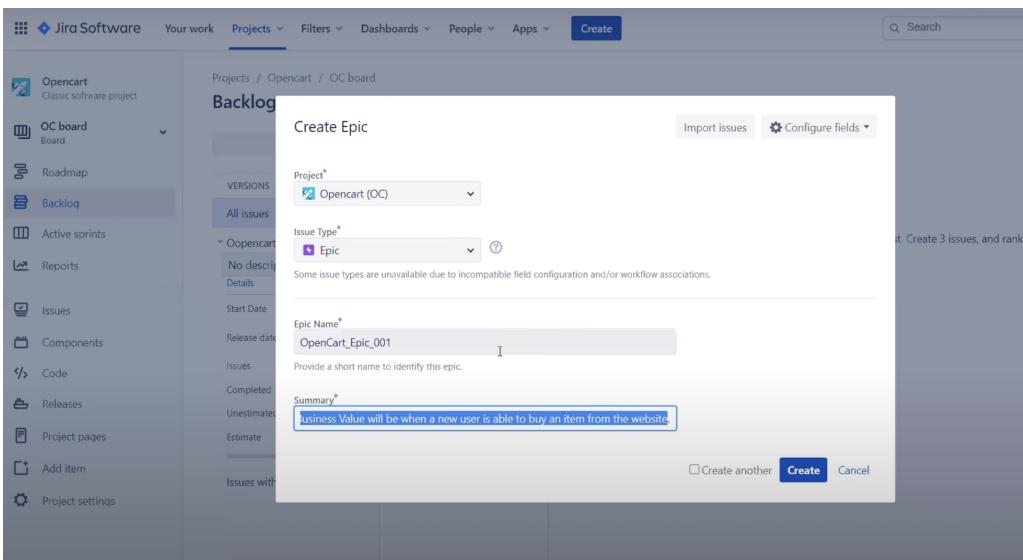
i. The backlog will have **Versions** and **Epics**

1. The product Owner will create the User stories based on the Customers' requirements



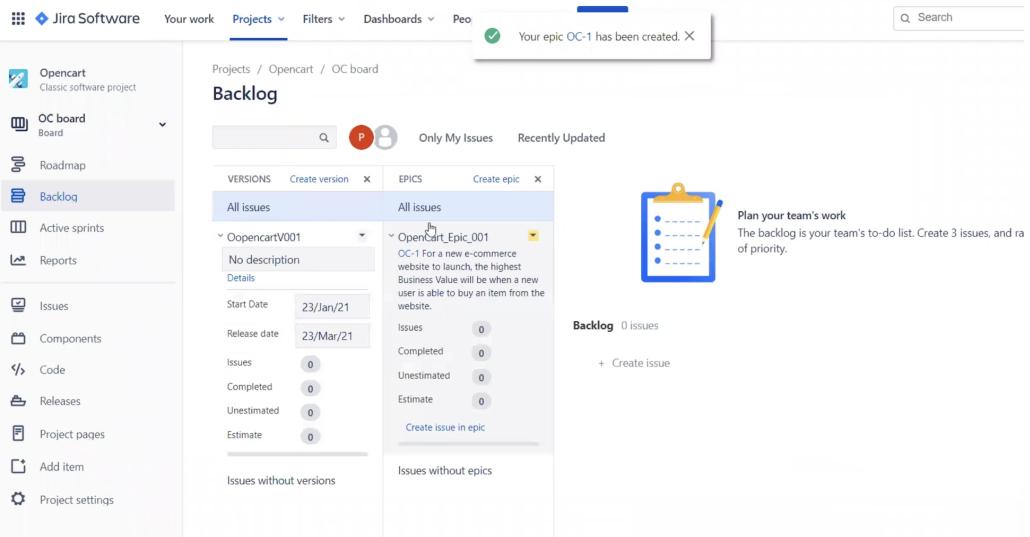
The screenshot shows the Jira Software interface for the 'Opencart' project. The left sidebar has 'Backlog' selected. The main area is titled 'Backlog' with '0 issues'. A callout box labeled 'Plan your team's work' says: 'The backlog is your team's to-do list. Create 3 issues, and rank them in order of priority.' There is a 'Create issue' button.

ii.



The screenshot shows the 'Create Epic' dialog box. It includes fields for 'Project' (set to 'Opencart (OC)'), 'Issue Type' (set to 'Epic'), 'Epic Name' (set to 'OpenCart_Epic_001'), and 'Summary' (set to 'Business Value will be when a new user is able to buy an item from the website'). Buttons at the bottom include 'Import issues', 'Configure fields', 'Create another', 'Create', and 'Cancel'.

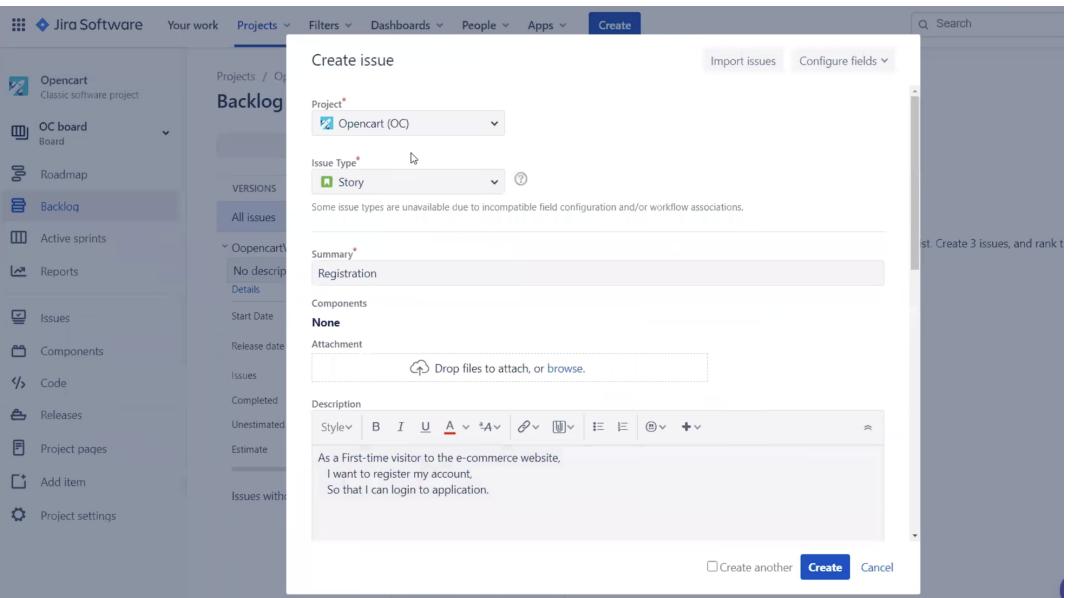
iii.



The screenshot shows the Jira Software interface with the 'Backlog' tab selected. A success message at the top right says 'Your epic OC-1 has been created.' The backlog list includes an item for 'OpenCart_Epic_001' with a detailed description: 'OC-1 For a new e-commerce website to launch, the highest Business Value will be when a new user is able to buy an item from the website.' Below this, there are sections for 'Issues without versions' and 'Issues without epics'. On the right, a sidebar titled 'Plan your team's work' explains that the backlog is a team's to-do list. A button '+ Create issue' is visible.

iv.

d. How to create stories and add story points?



The screenshot shows the 'Create issue' dialog box overlaid on the Jira interface. The dialog includes fields for 'Project' (set to 'Opencart (OC)'), 'Issue Type' (set to 'Story'), 'Summary' (containing 'Registration'), 'Components' (set to 'None'), 'Attachment' (with a placeholder for file upload), 'Description' (containing a narrative about a first-time visitor wanting to register), and 'Style' (with rich text editor tools). At the bottom, there are buttons for 'Create another', 'Create', and 'Cancel'.

i.

ii.

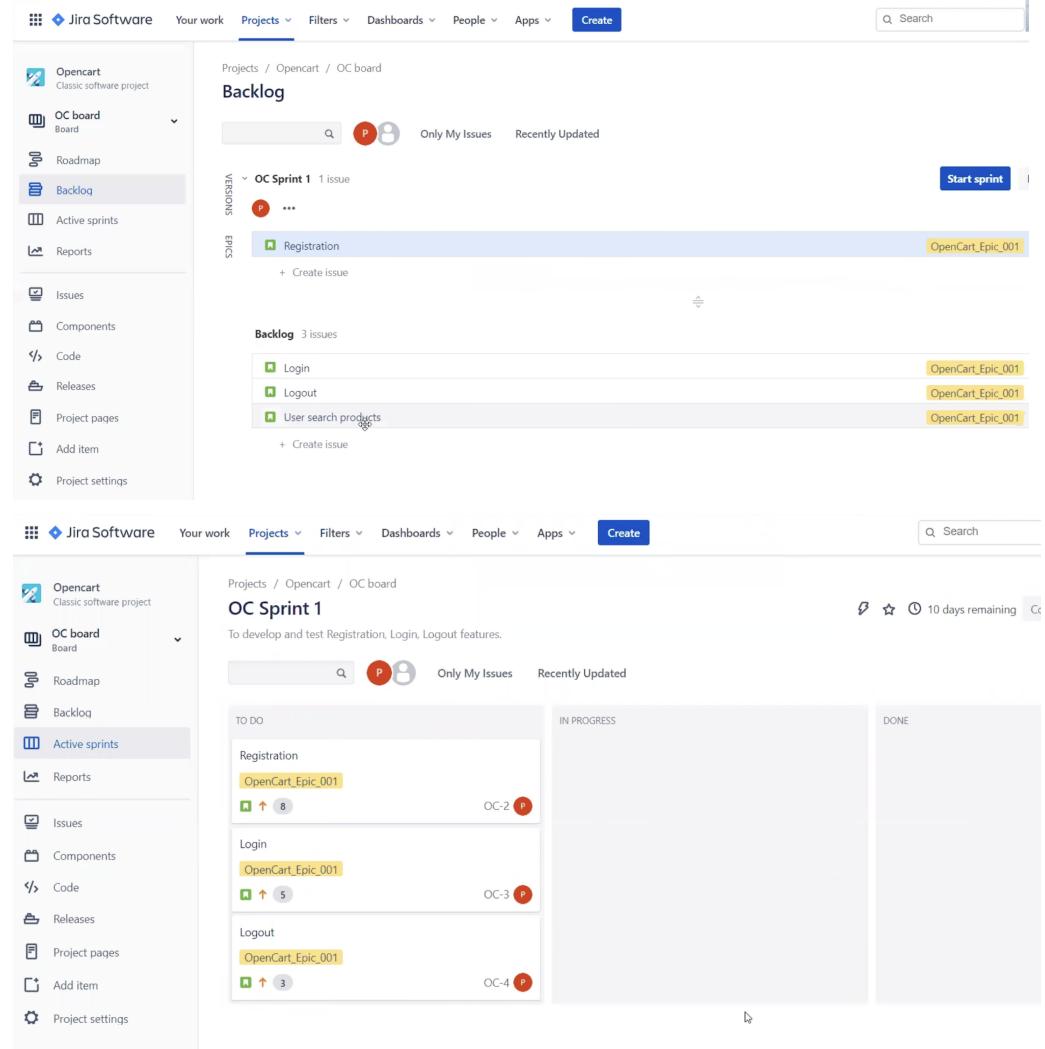
The screenshot shows the Jira Backlog view for the 'OC board' project. On the left, the sidebar includes 'Roadmap', 'Backlog' (which is selected), 'Active sprints', 'Reports', 'Issues', 'Components', 'Code', 'Releases', 'Project pages', 'Add item', and 'Project settings'. The main area displays the backlog under the heading 'Backlog 4 issues'. It shows an epic titled 'OpenCart_Epic_001' with a detailed description: 'OC-1 For a new e-commerce website to launch, the highest Business Value will be when a new user is able to buy an item from the website.' Below this are four child stories: 'Registration', 'Login', 'Logout', and 'User search products', each associated with a priority (OC-2, OC-3, OC-4, OC-5) and a progress bar.

iii.

This screenshot is similar to the one above, showing the Jira Backlog view for the 'OC board' project. The sidebar and backlog structure are identical. However, the epic 'OpenCart_Epic_001' is currently selected, opening a detailed card on the right side of the screen. This card provides more information about the epic, including its story points (8.1), epic link ('OpenCart_Epic_001'), priority (Medium), and a note to 'Show 5 more fields' (Original Estimate, Time tracking, Components, Sprint an...). The epic card also indicates it was created and updated 4 minutes ago.

e. Create a Sprint in JIRA

f. Add user stories in Sprint

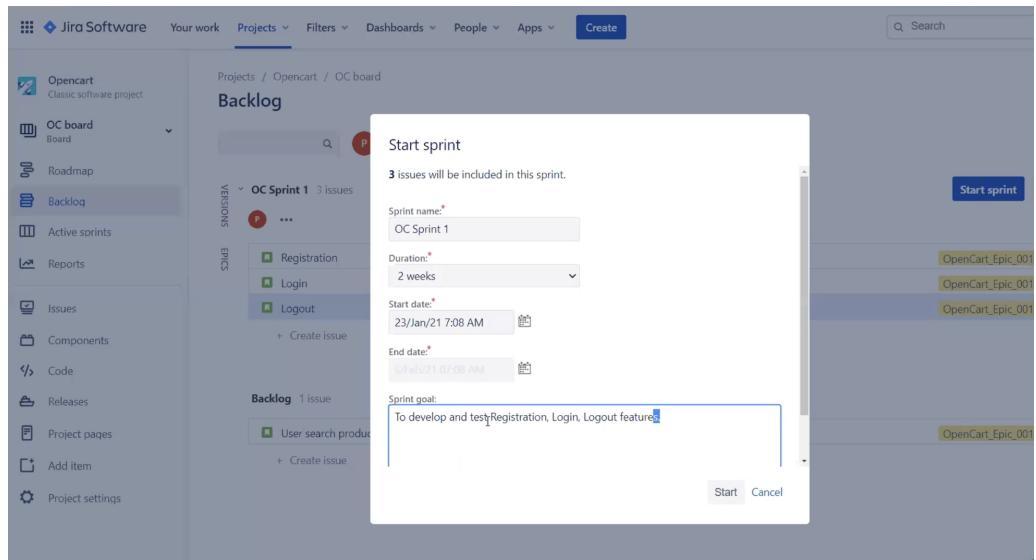


The screenshot shows two views of a Jira project titled "Opencart".

i. **Backlog**: Shows a single issue under "OC Sprint 1": "Registration" (OpenCart_Epic_001). A "Start sprint" button is visible.

ii. **OC Sprint 1**: A Kanban board with three columns: TO DO, IN PROGRESS, and DONE. The TO DO column contains three items: "Registration" (8), "Login" (5), and "Logout" (3). The IN PROGRESS column contains three items: "OC-2" (P), "OC-3" (P), and "OC-4" (P). The DONE column is empty.

g. Start Sprint



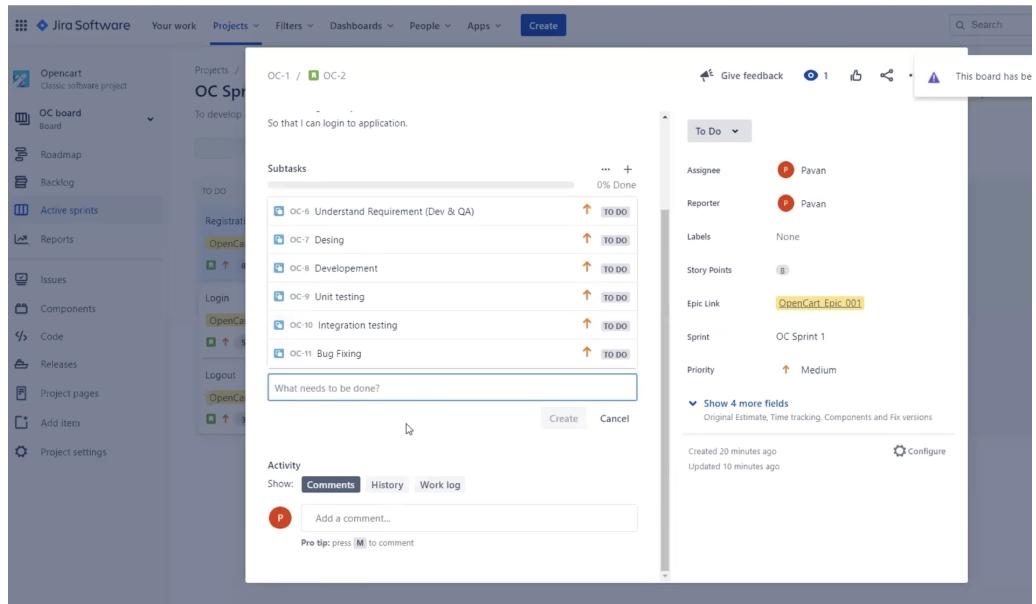
The screenshot shows the Jira Software interface with the 'Backlog' section selected in the sidebar. A modal dialog box titled 'Start sprint' is open, containing the following fields:

- Sprint name*: OC Sprint 1
- Duration*: 2 weeks
- Start date*: 23/Jan/21 7:08 AM
- End date*: 07-Feb/21 07:08 AM
- Sprint goal: To develop and test Registration, Login, Logout features

At the bottom right of the dialog are 'Start' and 'Cancel' buttons.

i.

h. Add sub-tasks to user story



The screenshot shows the Jira Software interface with the 'Board' section selected in the sidebar. A user story titled 'OC-1 / OC-2' is displayed on the board. The story has the following details:

- Summary: So that I can login to application.
- Subtasks:
 - oc-6 Understand Requirement (Dev & QA)
 - oc-7 Desing
 - oc-8 Developement
 - oc-9 Unit testing
 - oc-10 Integration testing
 - oc-11 Bug Fixing
- Activity panel:
 - Show: Comments (highlighted), History, Work log
 - Add a comment... (input field)
 - Pro tip: press M to comment
- Right sidebar:
 - Assignee: Pavan
 - Reporter: Pavan
 - Labels: None
 - Story Points: 8
 - Epic Link: OpenCart_Epic_001
 - Sprint: OC Sprint 1
 - Priority: Medium
 - Show 4 more fields: Original Estimate, Time tracking, Components and Fix versions
 - Created 20 minutes ago
 - Updated 10 minutes ago
 - Configure button

i.

ii.

This board has been updated.

OC Sprint 1

To develop

Subtasks

0% Done

TO DO

OC-6 Understand Requirement (Dev & QA)
OC-7 Desing
OC-8 Developement
OC-9 Unit testing
OC-10 Integration testing
OC-11 Bug Fixing
OC-12 Creating Test scenarios & Test cases
OC-13 Setup Env & Install Build
OC-14 Execute test cases
OC-15 Verify bugs

What needs to be done?

Add a comment... Pro tip: press M to comment

Assignee: Pavan
Reporter: Pavan
Labels: None
Story Points: 8
Epic Link: OpenCart_Epic_001
Sprint: OC Sprint 1
Priority: Medium

Created 23 minutes ago Updated 12 minutes ago Configure

i. Sprint Life Cycle

i.

Projects / Opencart / OC board

OC Sprint 1

To develop and test Registration, Login, Logout features.

Only My Issues Recently Updated

TO DO IN PROGRESS DONE

OC-2 [TO DO] 10 sub-tasks Registration

Category	Task	Owner
Unit testing	OC-9	
	OC-10	
	OC-11	
	OC-12	
	OC-13	
	OC-14	
Desing	OC-15	
Developement	OC-8	

Unit testing
Integration testing
Bug Fixing
Setup Env & Install Build
Execute test cases
Verify bugs

Developement
Creating Test scenarios & Test cases

Understand Requirement (Dev & QA)
Desing

Jira Software - Your work Projects Filters Dashboards People Apps Create

OC-1 / OC-2

Registration

Attach Create subtask Link issue ...

Description

As a First-time visitor to the e-commerce website,
I want to register my account;
So that I can login to application.

Subtasks 100% Done

Subtask	Progress	Owner	Status
OC-6 Understand Requirement (Dev & QA)	100%	Done	
OC-7 Desing	100%	Done	
OC-8 Developement	100%	Done	
OC-9 Unit testing	100%	Done	
OC-10 Integration testing	100%	Done	

Add a comment... Pro tip: press M to comment

To Do

IN PROGRESS

DONE

View workflow

Labels None

Story Points 8

Epic Link OpenCart_Epic_001

Sprint OC Sprint 1

Priority Medium

Show 4 more fields Original Estimate, Time tracking, Components and Fix versions

Created 29 minutes ago Updated 19 minutes ago Configure

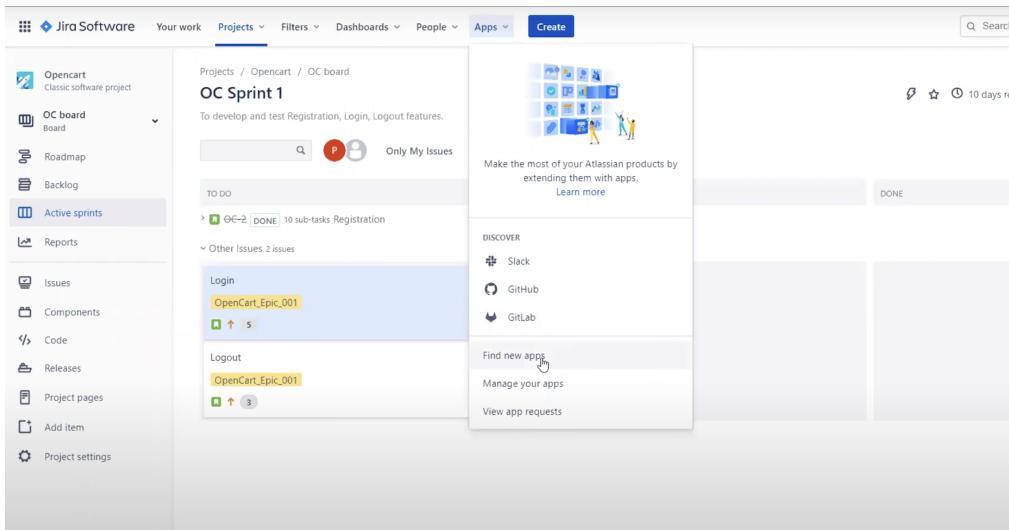
ii.

1. Test Management Activities

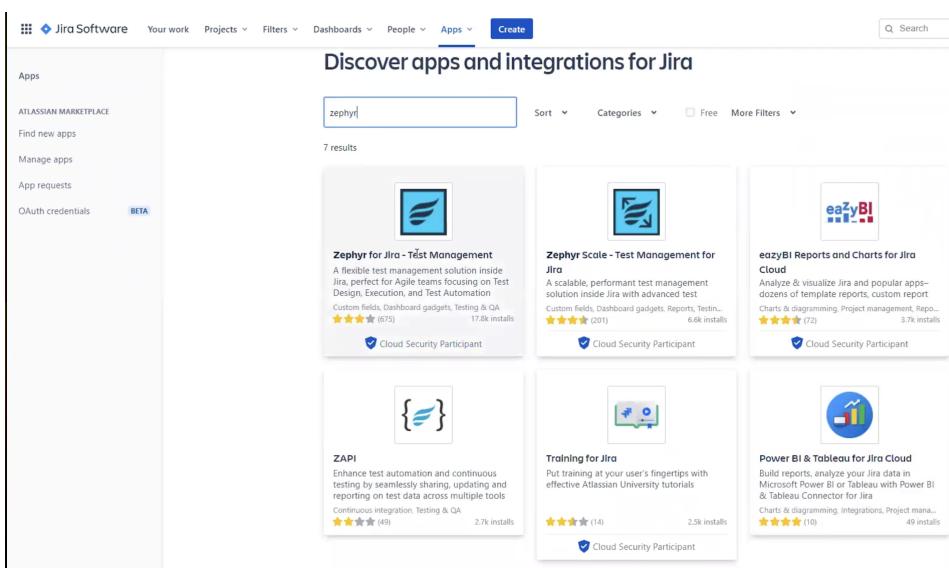
a. Plugin - Zephyr

- i. Create Test cases
 - ii. Test Cycle
 - iii. Update Test Results
 - 1. PASS
 - 2. FAIL
 - 3. BLOCKED
 - iv. Log Bugs
 - v. Reports

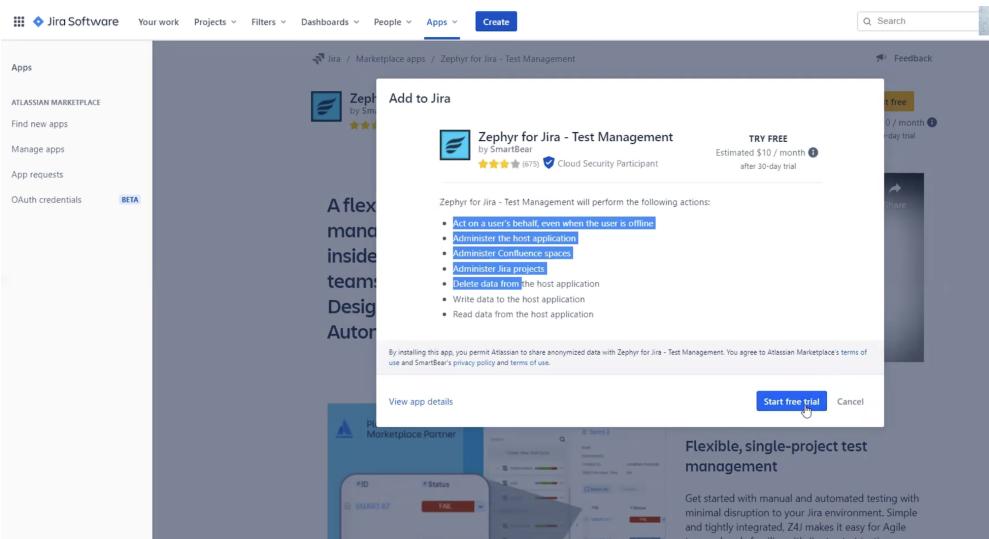
b. To add the Zephyr plugin into JIRA



i.



ii



iii.

The screenshot shows the Jira Software project management interface for the "OpenCart" project. The left sidebar shows various project management sections like OC board, Roadmap, Backlog, Active sprints, Issues, Components, Code, Releases, Project pages, Zephyr, Add item, and Project settings. The main area displays the "OC Sprint 1" board with tasks and sub-tasks. A "Create issue" dialog is open, showing the "Project" dropdown set to "OpenCart (OC)" and the "Issue Type" dropdown set to "Story". Other options in the Issue Type dropdown include Task, Bug, Epic, and Test. The dialog also includes fields for Description and Style, and buttons for Create another, Create, and Cancel.

iv.

c. Zephyr added into JIRA

- i. You will get more options

1. Design

- a. Create a Test
- b. Create a BDD feature
- c. Search Tests
- d. Import Tests

2. Planning and Execution

- a. Cycle Summary
- b. Search Test Executions
- c. Manage Execution Filters

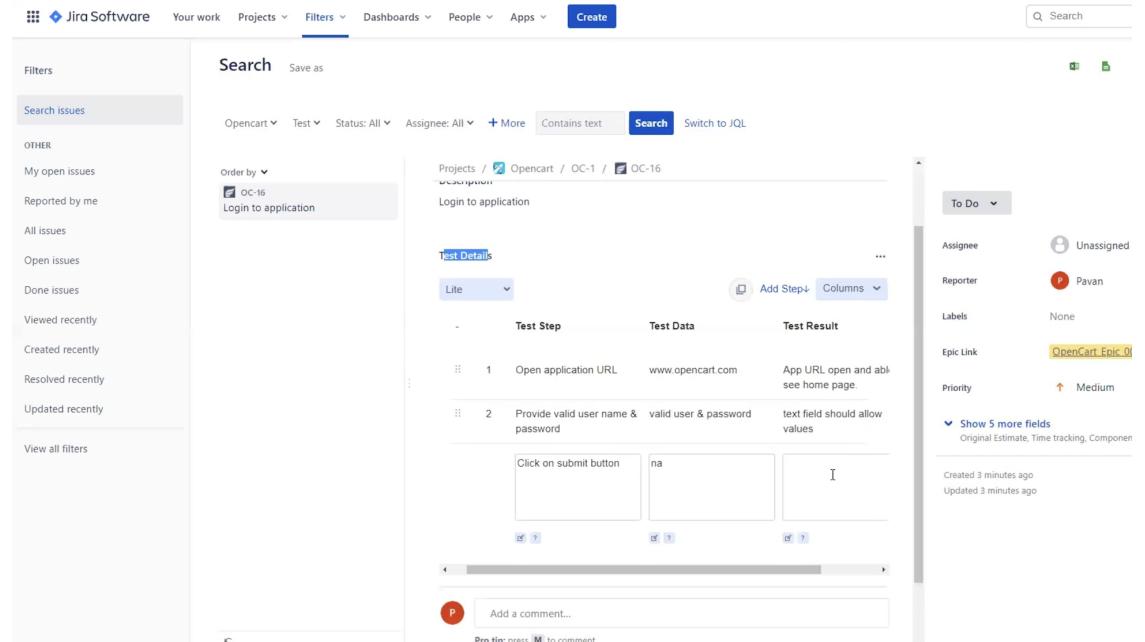
3. Reporting

- a. Test Summary
- b. Test Metrics
- c. Traceability Matrix

4. Integrations

- a. API Keys
- b. Test Automation
- c. BDD/Cucumber
- d. REST API

1. Create Test cases



The screenshot shows the Jira Software interface with the following details:

- Header:** Jira Software, Your work, Projects, Filters (selected), Dashboards, People, Apps, Create.
- Search Bar:** Search as, Contains text, Search, Switch to JQL.
- Filters Panel:** Search issues, OTHER, My open issues, Reported by me, All issues, Open issues, Done issues, Viewed recently, Created recently, Resolved recently, Updated recently, View all filters.
- Test Case Details:** Project: Opencart / OC-16 / OC-16, Description: Login to application, Test Details table:
 - Step 1: Open application URL, Data: www.opencart.com, Result: App URL open and able to see home page.
 - Step 2: Provide valid user name & password, Data: valid user & password, Result: text field should allow values.
- Right Panel:** To Do, Assignee: Unassigned, Reporter: Pavan, Labels: None, Epic Link: OpenCart_Epic_01, Priority: Medium, Show 5 more fields (Original Estimate, Time tracking, Component).
- Bottom:** Add a comment, Pro tip: press ⌘ to comment.

a.

1. Import Test cases

A	B	C	D	E	F	G
1	Test Case Name	TC Description	#	Test Step	Test Data	Test Result
2	Register User	Validate Registering an Account by providing the account details	1	Open Application URL	http://demo.opencart.com/	
3			2	Click on 'My Account' Drop menu	NA	
4			3	Click on 'Register' option	NA	
5			4	Enter new Account Details into the Fields (First Name, Last Name, E-Mail, Telephone, Password, Confirm Password, Privacy Policy Fields)	NA	
6			5	Click on 'Continue' button	NA	User should be logged in, taken to 'Account Success' page and proper details should be displayed on the page
7			6	Click on 'Continue' button that is displayed in the 'Account Success' page	NA	User should be taken to 'Account' page and a confirm email should be sent to the registered email address
8	User Login	Validate User is able to login with Valid Credentials	1	Open Application URL	http://demo.opencart.com/	
9			2	Click on 'My Account' Drop menu	NA	
10			3	Click on Login		
11			4	Provide valid Email & Password	pavanoltraining@gmail.com Password: test123	Login should be successful
12			5	Click on Login button		
13						
14						
15						
16						
17						
18						
19						
20						

a.

Import Tests into OpenCart

Setup

Import Tests from Excel files

Excel source file: JiraTestCases.xlsx

Use an existing configuration file
If you have used this importer before, you may have saved the configuration you used.
You can use that configuration again to save time.

You can import values to a cascading choice custom field using the following syntax:
Summary, My Cascading Custom Field
Example Summary, Parent Value -> Child Value
The '-' separator allows you to import the hierarchy.

Learn More about importing test cases.
Download sample XLS and XLSX files to use as a template for creating your own.

Next

b.

Jira Software Your work Projects Filters Dashboards People Apps Create Search

OpenCart Classic software project Back to project Zephyr What's New DESIGN Create a Test Create a BDD Feature (New) Search Tests Import Tests PLANNING AND EXECUTION Cycle Summary Search Test Executions Manage Execution Filters REPORTING Test Summary Test Metrics Traceability Matrix

Issue Link Type → Select a mapping
Issues Key To Link → Select a mapping
Labels → Select a mapping
Name * → Test Case Name
Priority → Select a mapping
Reporter → Select a mapping
Result → Select a mapping
Sprint → Select a mapping
Step → Test Step
Testdata → Select a mapping
Labels TC Description Test Case Name Test Data Test Result

Next Back

C.

1. Test Cycle

a.

Jira Software

Projects / Opencart / Cycle Summary

Cycle Summary

Search

Create New Test Cycle

Build: B001

Environment: WINDOWS

Created By: Pavan

Total Execution Time: 0m

Total Executions: 0

Total Executed: 0

Total Logged Time: 0m

Start Date: 202

End Date: 202

Description:

Executions Not Tracked

b.

Jira Software

Projects / Opencart / Cycle Summary

Cycle Summary

Search

Create New Test Cycle

Build

Environment

Created By

Total Execution Time

Select All

Add Tests to Cycle: Regression Cycle

Individually Via Search Filter From Another Cycle

Test: GC-18 - User Login

Start typing to get a list of possible matches or press down to select from a list of existing issues to associate with this cycle. Issue must belong to same project if entered manually.

Assign To: Select...

Add Cancel

1. Update Test Results

a.

The screenshot shows the Jira Software interface with the following details:

- Search Bar:** Contains the query `id=OC-17`.
- Project Path:** Projects / **Opencart** / OC-17
- Test Executions Table:**

Version	Status	Test Cycle	Folder	Actions
OpencartV001	UNEXECUTED	Regression Cycle	-	E D
	PASS			
	FAIL			
	WIP			
	BLOCKED			
- Activity Bar:** Shows 1 execution, 1 comment, and 1 update.
- Filter Panel:** Includes filters for 'Search issues' and various status categories like 'My open issues', 'Reported by me', etc.
- Right Panel:** Shows user information (Assignee: Uni, Reporter: Pav, Labels: None, Priority: Me) and a note about created and updated times.

b.

The screenshot shows the Zephyr for Jira interface with the following details:

- Project:** Opencart
- Search Bar:** Search Test Executions
- Table:**

Cycle Name	Folder Name	Issue Key	Test Summary	Project Name	Priority	Component	Version	Execution Status	Executed By	Executed On	Creation Date	ED
Regression Cycle	OC-17	Register User	Opencart	Medium	OopencartV001	PASS		Pavan	01-23-2021 08:05:51	01-23-2021 08:05:38		
Regression Cycle	OC-18	User Login	Opencart	Medium	OopencartV001	UNEXECUTED					01-23-2021 08:05:38	
- Left Panel:** Includes links for 'Create a Test', 'Search Tests', 'Import Tests', 'Search Test Executions', and 'Manage Execution Filters'.
- Right Panel:** A notification for 'Your Zephyr for Jira just got' integration with test automation.

1. Log Bugs

a.

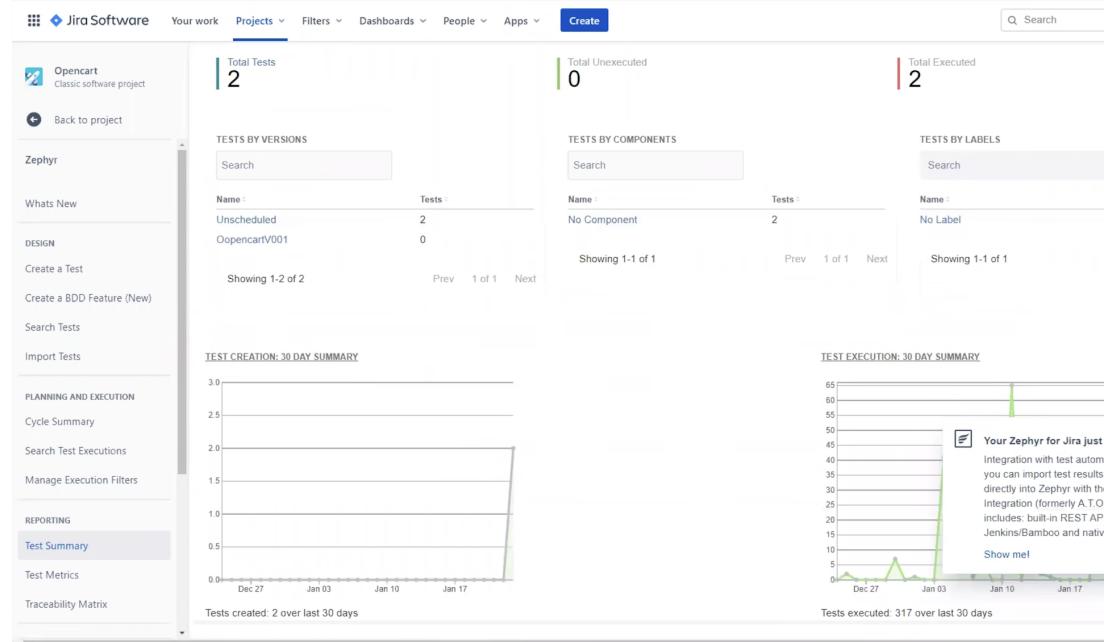
The screenshot shows the Jira Software Issues page for the 'Opencart' project. On the left, a sidebar lists filters like 'All issues', 'My open issues', and 'Reported by me'. The main area displays a list of issues under the 'Created' filter, with one issue selected: 'OC-1 / OC-19 Login failed with valid credentials'. The issue details include steps for login, environment (None), and activity (Comments tab). A sidebar on the right shows assignee (abcdev), reporter (Pavan), and sprint (OC Sprint 1).

1. Reports

a.

The screenshot shows the Jira Software Reports page for the 'Opencart' project. The sidebar lists reports categorized by Agile, Issue Analysis, and Project Health. Under Agile, there are charts for Burndown, Burnup, Sprint Report, Velocity, Cumulative Flow Diagram, Version Report, and Epic Report. Under Issue Analysis, there are Average Age Report and Release Burndown. Each report has a brief description and a corresponding chart.

1. Test Summary Report



a.

1. More documents:

- a. <https://github.com/rajatt95/Documents>

2. Learnings from Tutor (Code Repository):

- a. **This course:**

- i. <https://github.com/stars/rajatt95/lists/youtube-pavan-manual-testing>

- b. **Other course(s):**

- i. <https://github.com/stars/rajatt95/lists/youtube-pavan-kumar>

3. To connect:

- a. <https://github.com/rajatt95>
- b. <https://rajatt95.github.io/>
- c. <https://www.linkedin.com/in/rajat-v-3b0685128/>

THANK YOU!