

Experiment no. 6 : To Study Agile Methodology and Test Case Management using JIRA Tool

Agile Methodology

Agile is a software development approach that emphasizes flexibility, collaboration, and customer feedback. It divides work into small, iterative cycles called sprints, allowing continuous improvement and faster delivery.

Key Principles of Agile:

- Customer Collaboration → Frequent feedback ensures better product development.
- Iterative Development → Work is broken into short development cycles.
- Quick Adaptation → Teams respond to changes efficiently.
- Continuous Improvement → Regular reviews and refinements improve quality.

Popular Agile Frameworks:

1. Scrum → Uses sprints, daily stand-ups, and retrospectives.
2. Kanban → Focuses on visualizing tasks and limiting work in progress.
3. Extreme Programming (XP) → Emphasizes continuous testing and customer involvement.

Test Case Management in JIRA

JIRA is a widely used project management tool developed by Atlassian. It supports Agile methodologies and helps in tracking, managing, and executing test cases efficiently.

Installing & Configuring JIRA

1. Visit [Atlassian JIRA](#) and sign up.
2. Choose a project type (Scrum/Kanban/Basic).
3. Invite team members and configure workflows.

Creating a Test Case in JIRA

1. Navigate to your project and click “Create Issue”.
2. Select Test Case as the issue type.
3. Fill in details:
 - Summary: Short description of the test case.
 - Steps: List the actions to execute.
 - Expected Result: Define the expected outcome.
 - Actual Result (After Execution): Capture actual behavior.
4. Assign the test case to a tester and save it.

Executing Test Cases in JIRA

- Navigate to the test case and update the execution status (Pass, Fail, Blocked).
- Attach evidence (screenshots, logs, etc.) if needed.
- Link defects/bugs to the test case for tracking.

JIRA Integrations for Testing

JIRA integrates with tools like Zephyr, Xray, and TestRail to enhance test case management. These plugins provide advanced reporting, automation, and execution tracking.

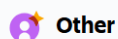
Benefits of Using JIRA for Test Case Management

- Centralized Tracking → Manage test cases, bugs, and development tasks in one place.
- Collaboration → Enables seamless communication between testers, developers, and managers.
- Custom Workflows → Define workflows tailored to project needs.
- Reports & Dashboards → Gain insights into testing progress and quality.



Select a template to get started

You can always change this later. Selecting a template won't limit what you can do.

An icon representing the Scrum template, showing a whiteboard with a list of tasks and a blue border.

Scrum
Plan, prioritize, and schedule sprints using scrum framework

An icon representing the Kanban template, showing a Kanban board with cards and a blue border.

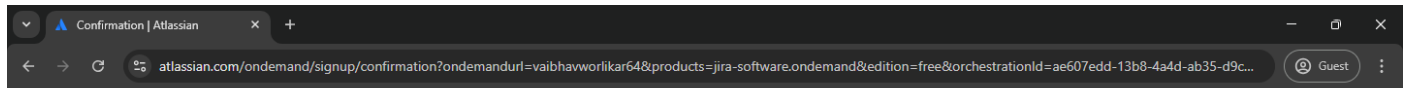
Kanban
Visualize work and maximize efficiency with a kanban board

An icon representing the Project management template, showing a project management dashboard with a blue border.

Project management
Manage, track, and assign tasks to streamline project workflows















Back

Continue




What kind of work do you do?

This helps us suggest templates that help your team do their best work.

 Software development	 Product management
 Marketing	 Design
 Project management	 Operations
 IT support	 Human resources
 Customer service	 Legal
 Finance	 Sales
 Data science	 Other

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Preferences Only necessary ☒ Accept all

 Jira Your projects

My Scrum Project

Software project

PLANNING

Summary

Timeline

Backlog

Board

Forms

+ Add view

DEVELOPMENT

Code

Project pages

Project settings

Archived issues **NEW**

Welcome!

Your first project is ready to kick off. It's where you'll track tasks across teams, turning big ideas into real outcomes.

Name your project

How familiar are you with Jira? *

☒ Not familiar

☐ Somewhat

☐ Familiar

[Get started](#)

SEPMLab6

Board List Timeline **Backlog**

your backlog is empty.

[+ Create issue](#)

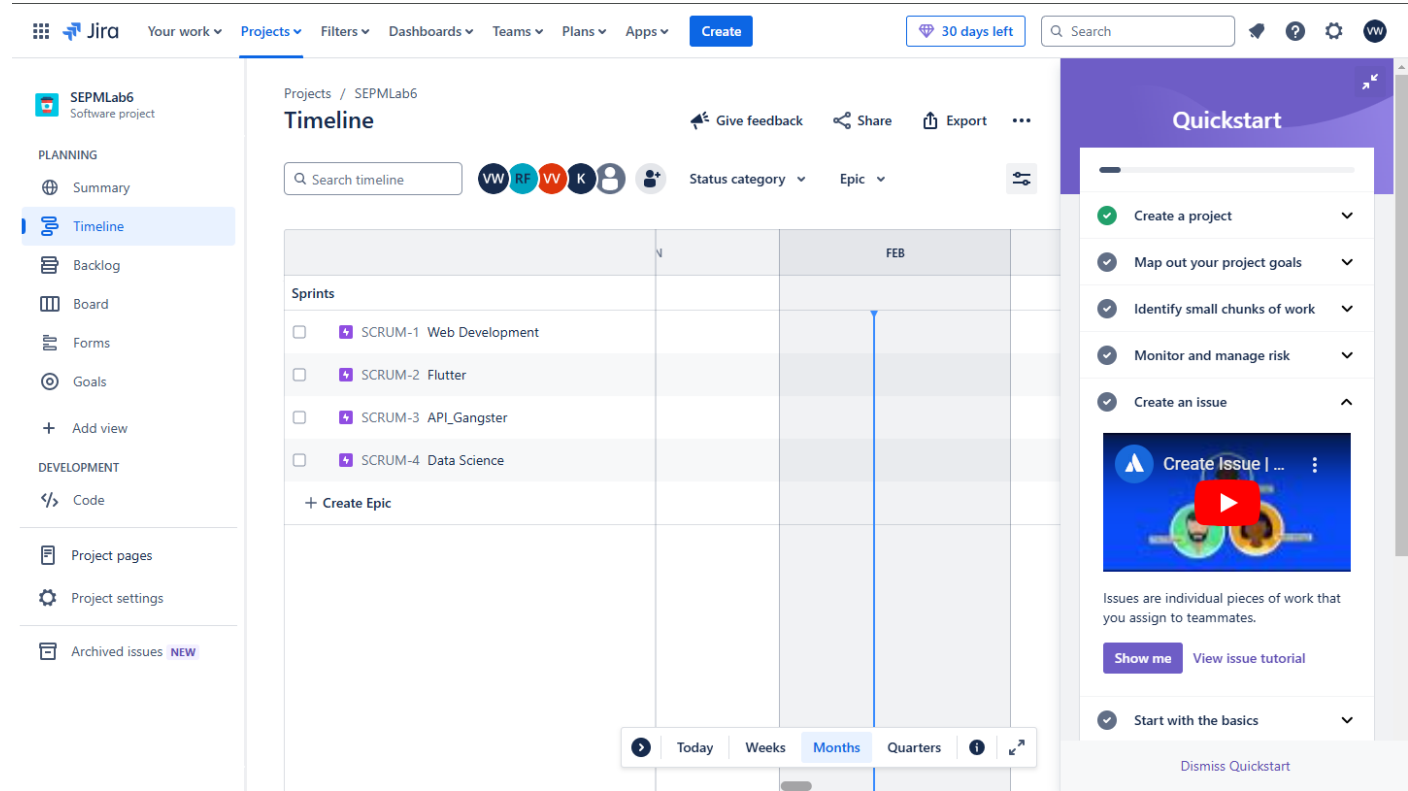
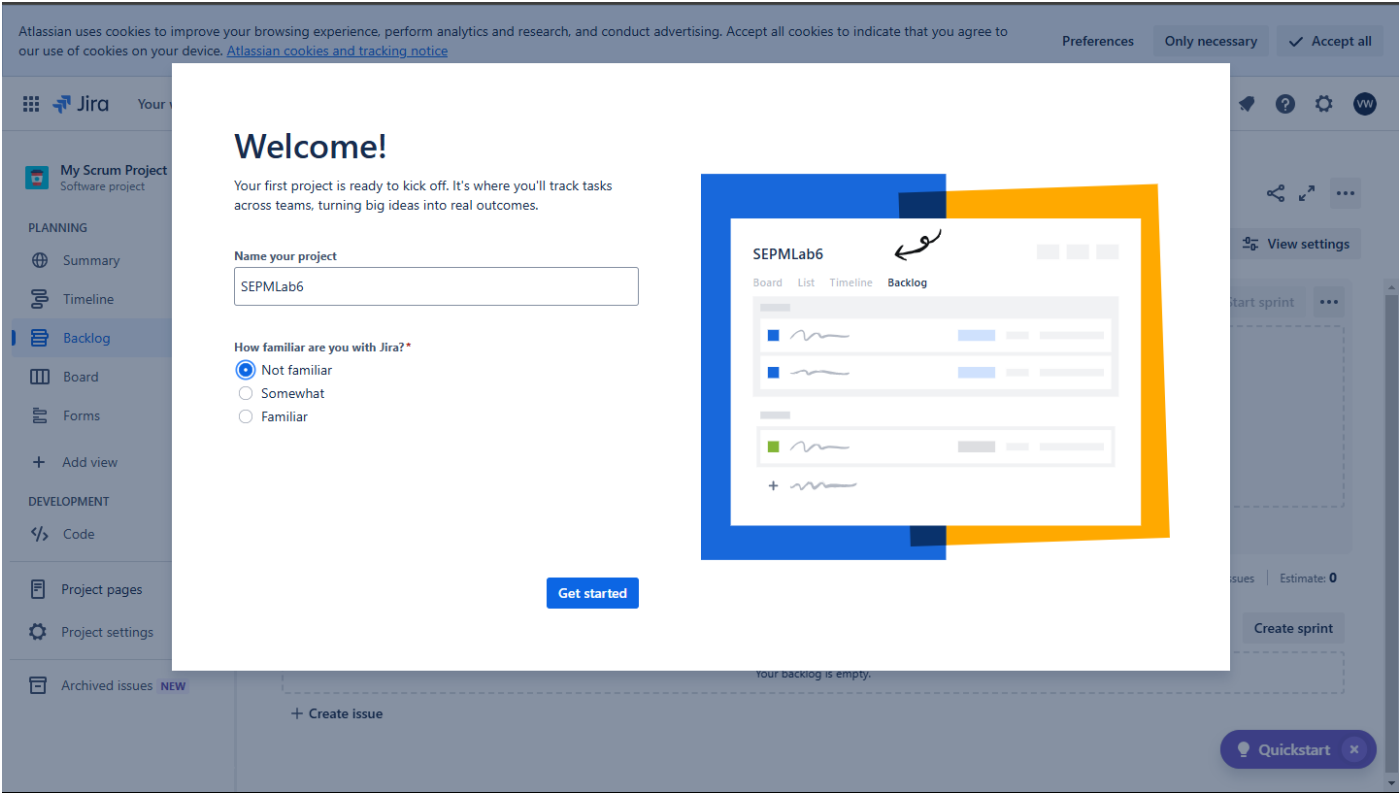
View settings

start sprint

Issues | Estimate: 0

Create sprint

[Quickstart](#)



Jira

Your work

Projects

Filters

Dashboards

Teams

Plans

Apps

Create

30 days left

Search

SEPMLab6

Software project

PLANNING

Summary

Timeline

Backlog

Board

Forms

Goals

Add view

DEVELOPMENT

Code

Project pages

Project settings

Archived issues

Projects / SEPMLab6

Timeline

Give feedback

Share

Export

Search timeline

VW RF VV K

Status category

Epic

Sprints

SCRUM-1 Web Development

SCRUM-2 Flutter

SCRUM-3 API_Gangster

SCRUM-4 Data Science

Create Epic

Today

Weeks

Months

Quarters

Quickstart

Create a project

Map out your project goals

Identify small chunks of work

Monitor and manage risk

Create an issue

Create Issue | ...

Issues are individual pieces of work that you assign to teammates.

Show me

View issue tutorial

Start with the basics

Dismiss Quickstart

Jira

Your work

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Projects / My Scrum Project

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Insights

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Search

VW

Epic

SCRUM Sprint 1

Add dates

0 issues

Start sprint

Plan your sprint

Drag issues from the Backlog section, or create new issues, to plan the work for this sprint.

Select Start sprint when you're ready.

Create issue

0 issues

Estimate: 0

Backlog

0 issues

Create sprint

Your backlog is empty.

Create issue

Quickstart

Create a project

Create an issue

Create Issue | ...

Issues are individual pieces of work that you assign to teammates.

Show me

View issue tutorial

Start with the basics

Invite your teammates

Dismiss Quickstart

The screenshot shows the Atlassian Home page. The top navigation bar includes the Atlassian logo, links to Home, Projects, Goals, Teams, and Give feedback, along with a search bar. The main content area is titled "G'day, Rohan Fukat" and features a section for "Apps" with five cards: Jira, Account settings, Atlassian Support, Atlassian Community, and Self-managed licensing. Below this is a "Frequent places" section with a card for "SEPLab6" project. A blue button labeled "Get goals early" is visible on the left sidebar.

The screenshot shows the Jira project timeline for the "SEPLab6" project. The left sidebar contains a navigation menu with options like Summary, Timeline, Backlog, Board, Forms, Goals, and Code. The main content area displays the "Timeline" view for the project. It includes a search bar, filters for "Status category" and "Epic", and a table of sprints. The table lists four sprints: SCRUM-1 (Web Development, DONE), SCRUM-2 (Flutter, DONE), SCRUM-3 (API_Gangster, In Progress), and SCRUM-4 (Data Science, DONE). A detailed view of the "API_Gangster" epic is shown on the right, including a "TO DO" list and a "View workflow" button.

Sprint	Project	Status
SCRUM-1	Web Development	DONE
SCRUM-2	Flutter	DONE
SCRUM-3	API_Gangster	In Progress
SCRUM-4	Data Science	DONE

Conclusion : Thus, we have successfully studied agile methodology and test case management using jira tool