

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.

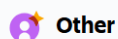
Benefits of Using JIRA for Test Case Management

- 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 for 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 for the Kanban template, showing a Kanban board with cards and a blue border.

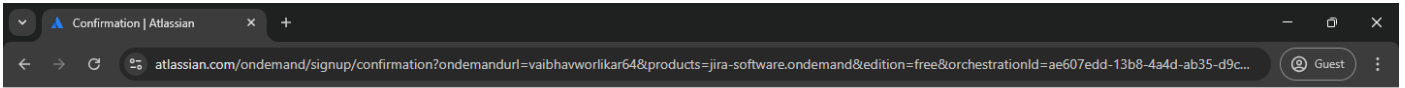
Kanban
Visualize work and maximize efficiency with a kanban board

An icon for the Project management template, showing a project plan with tasks and a blue border.

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

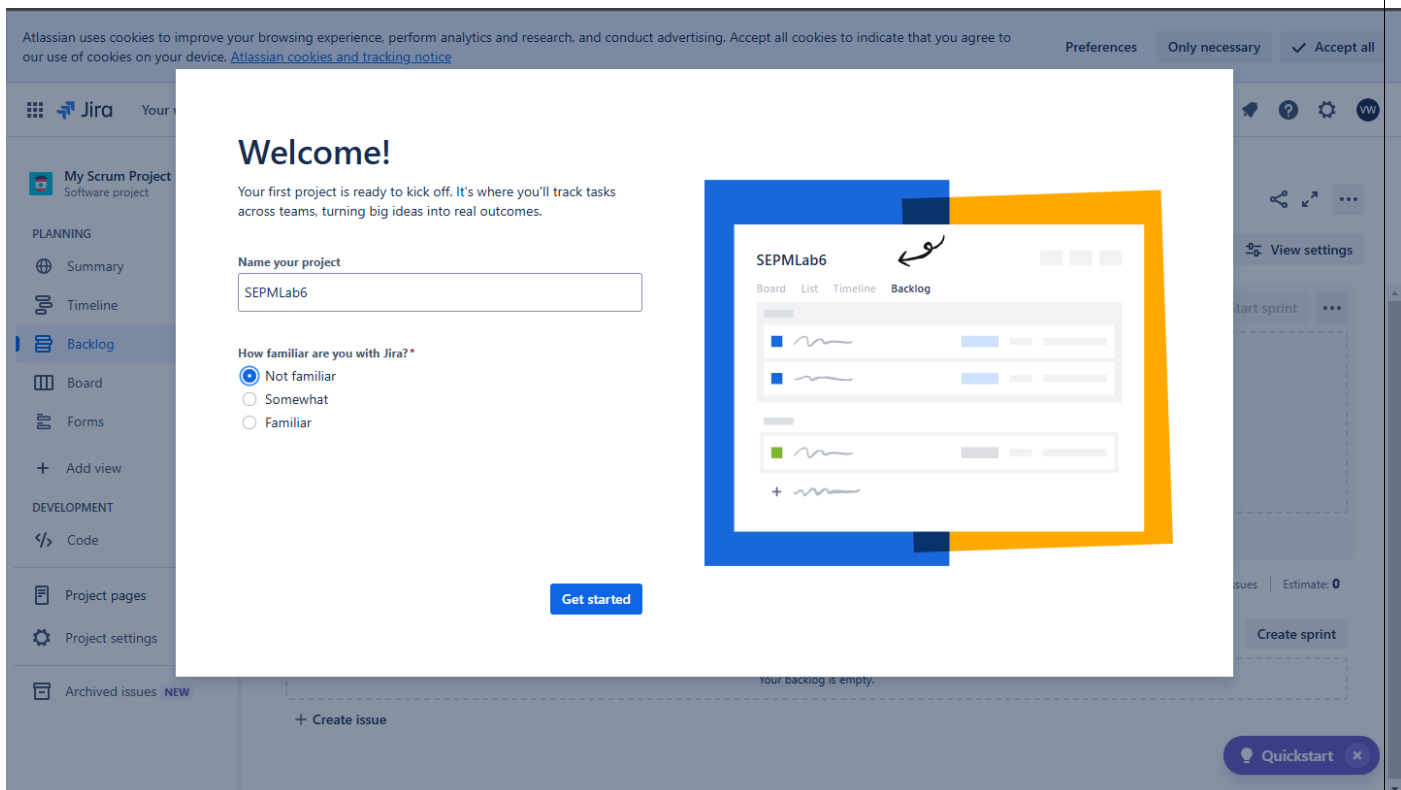
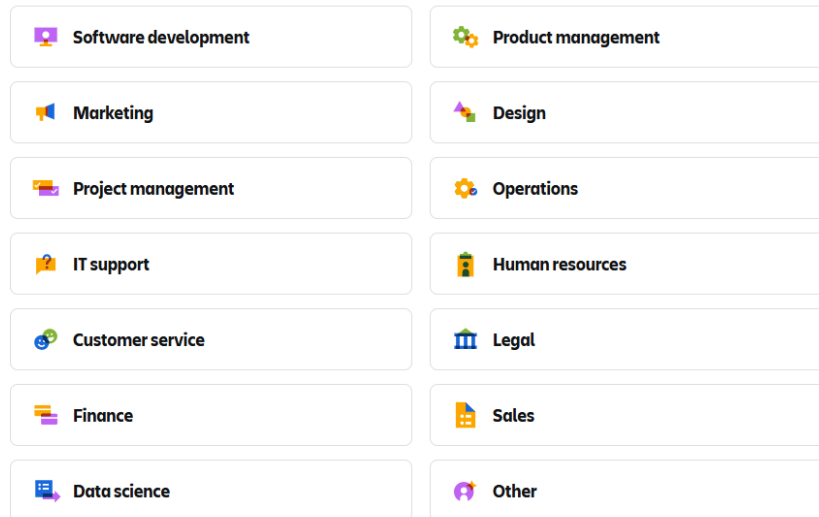
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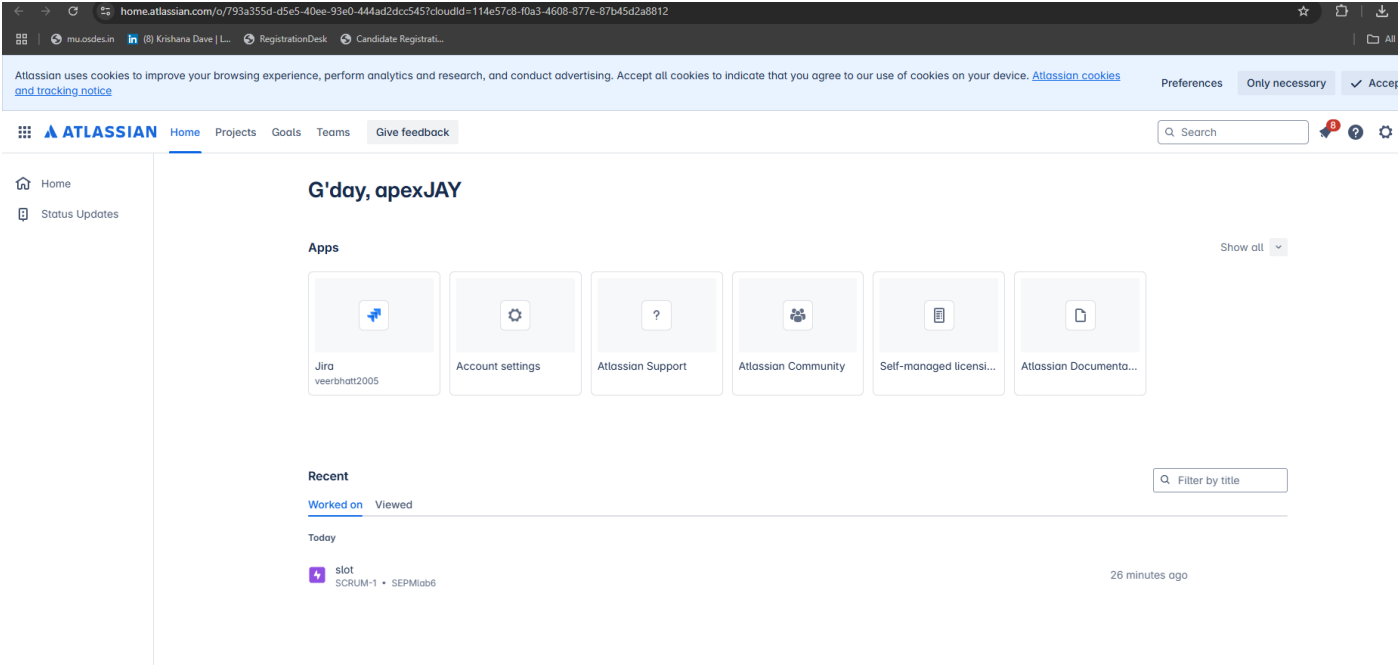
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What kind of work do you do?

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





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