

EXPERIMENT 6

Aim: To study agile methodology and test case management using JIRA tool. To create scrum board for scrum master using JIRA tool.

Theory:

Jira is a software development tool that helps teams plan, track, and release software projects. It's a popular tool among software development teams.

JIRA is a widely used issue tracking and project management software developed by Atlassian. The theory behind JIRA revolves around several key principles and concepts:

IssueTracking:

At its core, JIRA is designed to help teams track tasks, bugs, features, and other issues within a project. It provides a centralized platform for capturing, organizing, and prioritizing these items.

AgileMethodologies:

JIRA supports agile methodologies such as Scrum and Kanban, enabling teams to plan, track, and deliver work in iterative cycles.

Agile principles emphasize collaboration, adaptability, and delivering value to customers.

WorkflowManagement:

JIRA allows teams to define custom workflows that represent the lifecycle of an issue from creation to completion. Workflows can include various statuses, transitions, and conditions to reflect the specific processes followed by the team.

Customization:

One of the key strengths of JIRA is its flexibility and customization options. Teams can tailor JIRA to their specific needs by creating custom issue types, fields, workflows, and project configurations.

CollaborationandCommunication:

JIRA facilitates collaboration among team members by providing features such as commenting, mentioning, and attaching files to issues. It also integrates with other Atlassian products like Confluence and Bitbucket for seamless communication and knowledge sharing.

ReportingandAnalytics:

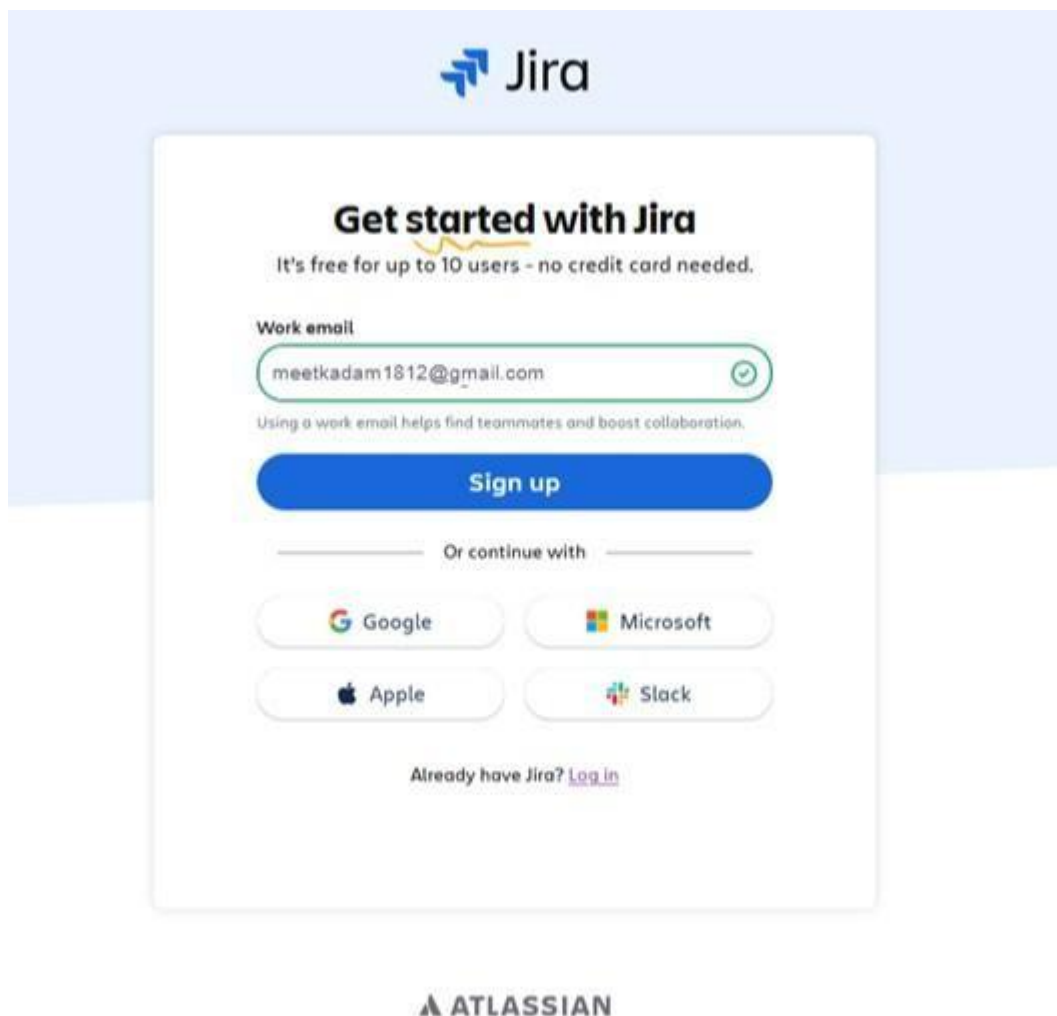
JIRA offers robust reporting and analytics capabilities, allowing teams to gain insights into their project progress, team performance, and other key metrics. Users can create custom dashboards, charts, and reports to monitor and analyze project data.

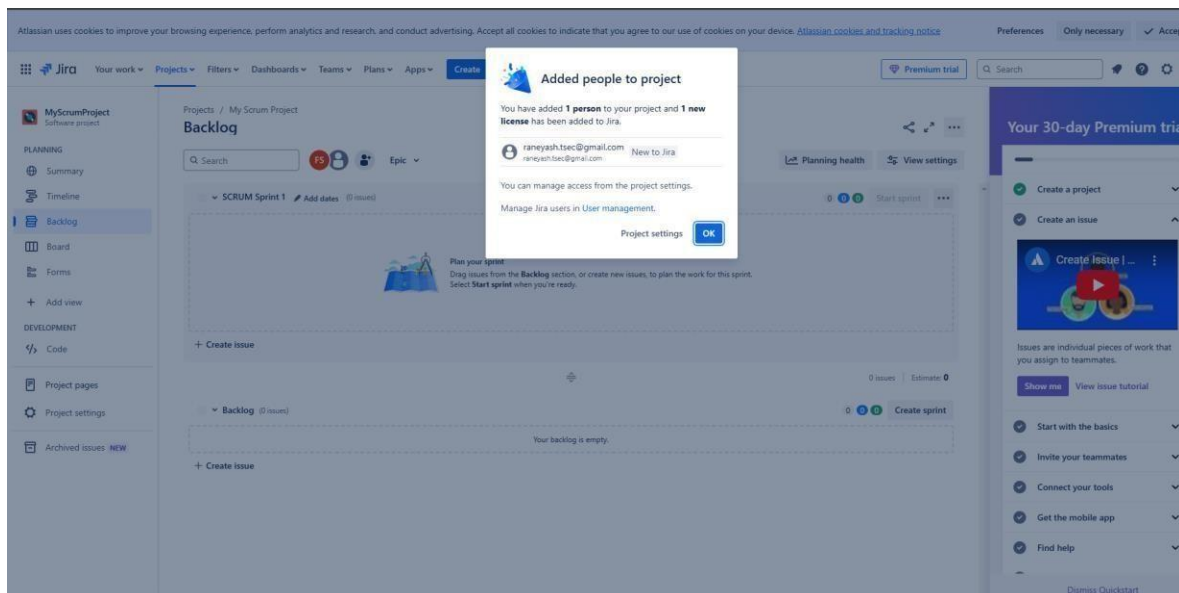
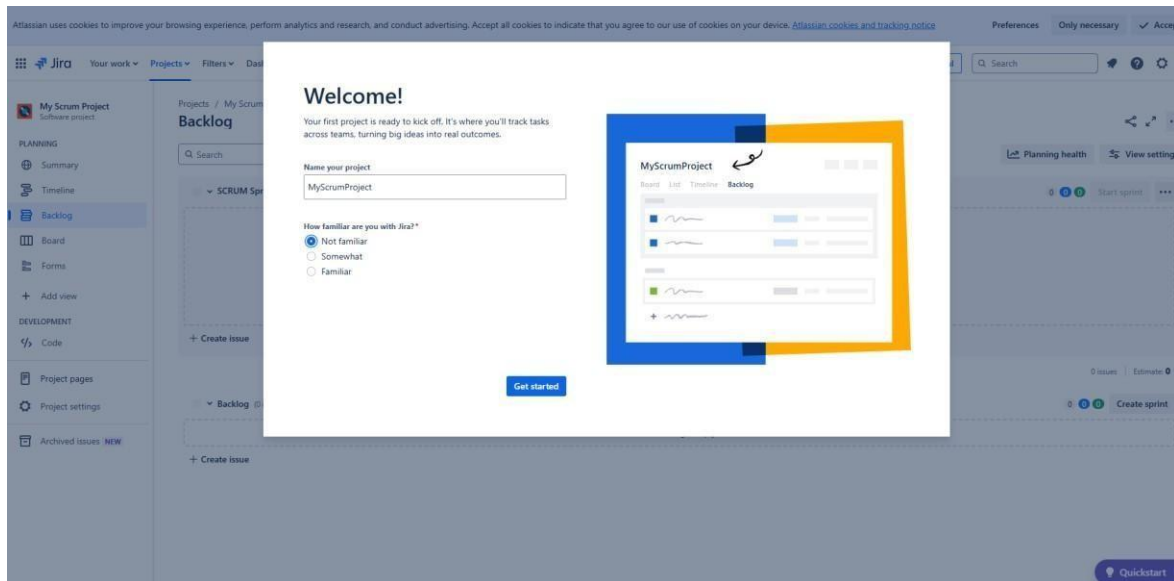
Integration:

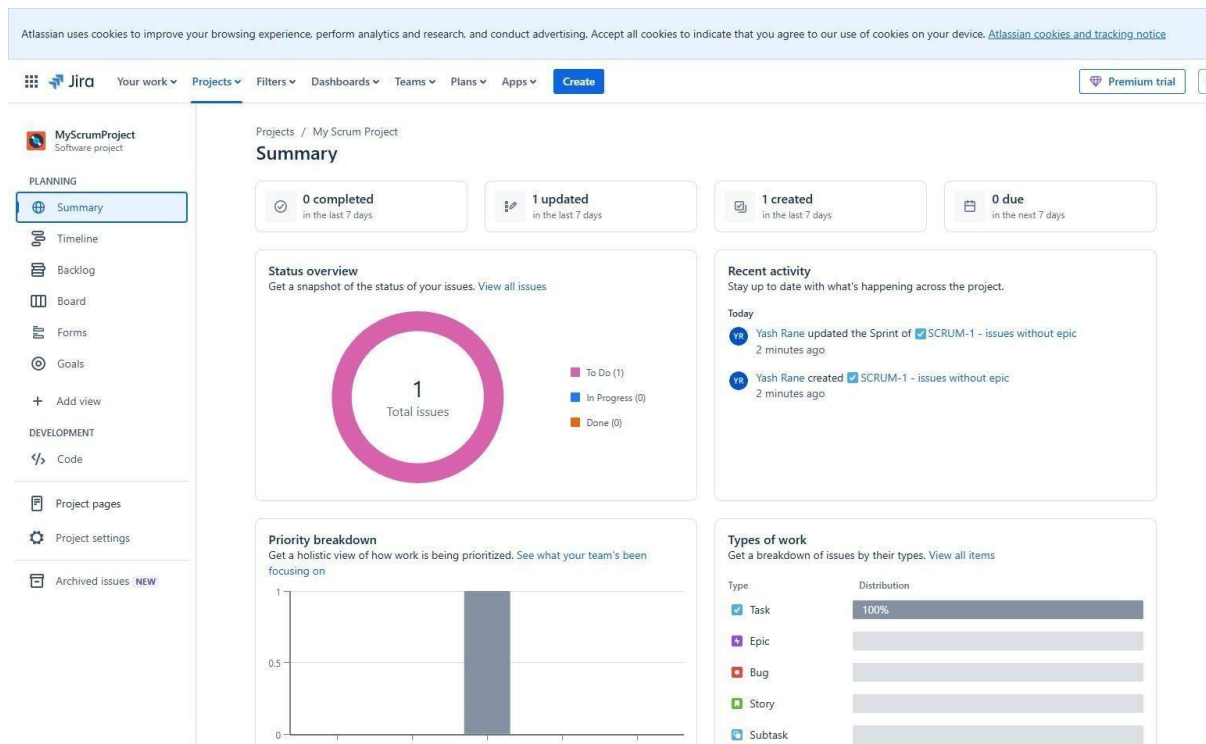
JIRA integrates with a wide range of third-party tools and services, including development tools, CI/CD pipelines, customer support systems, and more. This integration ecosystem enables teams to streamline their workflows and improve productivity.

Scalability and Performance:

JIRA is designed to scale with the needs of growing teams and organizations. It can handle large volumes of data and users while maintaining performance and reliability.







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MyScrumProject Software project

PLANNING

- Summary
- Timeline
- Backlog
- Board
- Forms
- Goals
- Add view

DEVELOPMENT

- Code

Project pages

- Project settings

Archived issues NEW

List

Search list

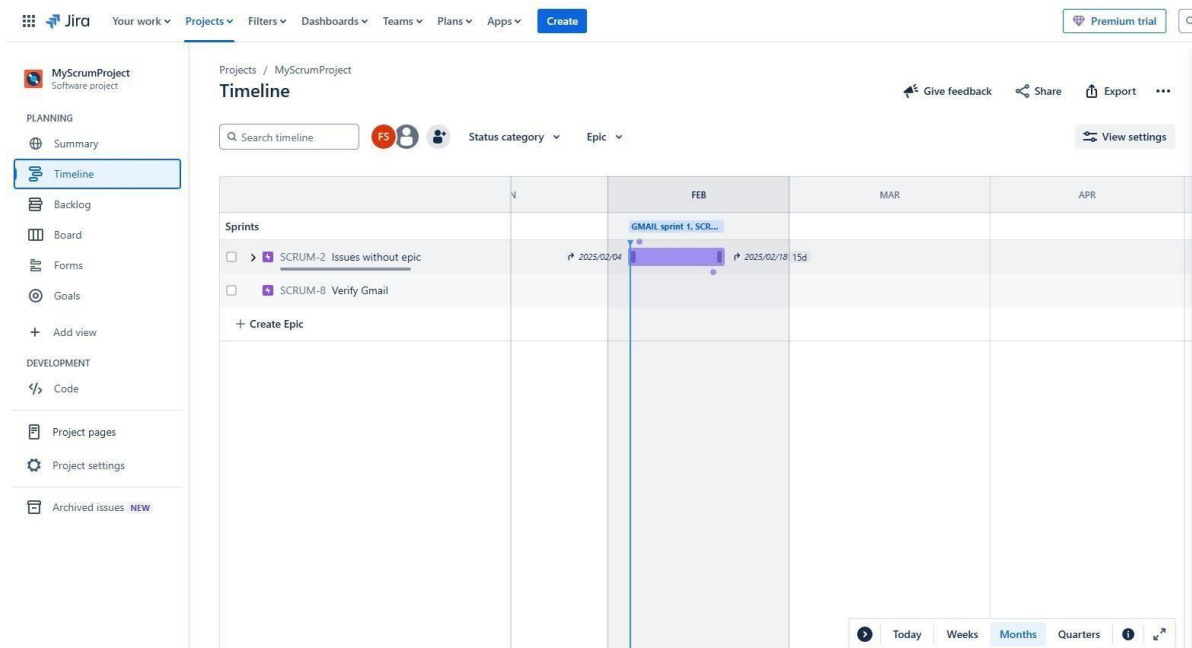
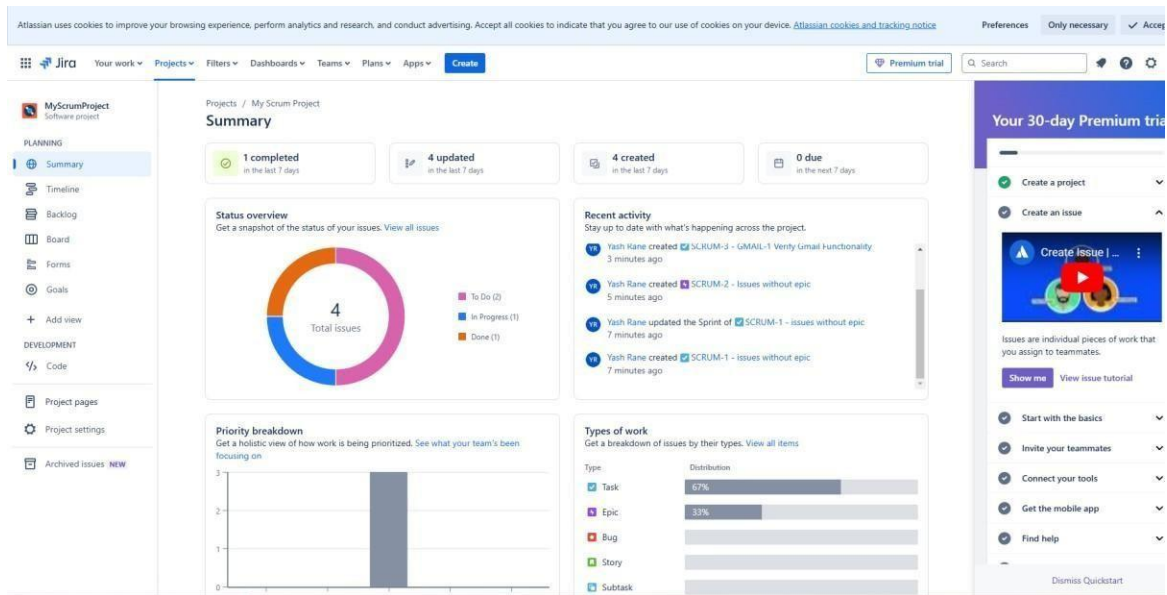
Give feedback

Share 1 filter applied Group Format More

	Type	Key	Summary	Status	Sprint	Assignee	Due date
<input type="checkbox"/>	Epic	SCRUM-2	Issues without epic	TO DO			
<input type="checkbox"/>	Task	SCRUM-3	GMAIL-1 Verify Gmail Functionality	TO DO			

+ Create

Nice one!
Marked "SCRUM-4" as Done
[View Issue](#)



This screenshot shows the 'All sprints' view in Jira for the 'MyScrumProject'. The left sidebar contains a navigation menu with sections: PLANNING (Summary, Timeline, Backlog, Board, Forms, Goals, Add view), DEVELOPMENT (Code), Project pages, Project settings, and Archived issues (NEW). The 'Board' option is currently selected. The main content area is titled 'All sprints' and includes a search bar, filters for 'FS', 'Epic', and 'Sprint', and a 'GROUP BY' dropdown set to 'None'. It also features links for 'Complete sprint' and 'View settings'. The sprint board is divided into three columns: 'TO DO 1' containing 'GMAIL Sprint 1' (with a sub-item 'ISSUES WITHOUT EPIC') and 'SCRUM-5'; 'IN PROGRESS 1' containing 'issues without epic' and 'SCRUM-1'; and 'DONE' which is currently empty. A '+ Create issue' button is located at the bottom of the 'TO DO' column.

This screenshot shows the 'Forms' view in Jira for the 'MyScrumProject'. The left sidebar is identical to the previous view, but the 'Forms' option is now selected. The main content area is titled 'Forms' and includes a 'Create a new form' section with buttons for 'Blank form', 'Feature request', 'Bug report', and 'Incident report'. Below this is a 'Recent forms' section displaying a card for 'Project MyScrumProject - Task Fo...'. The card indicates it was 'Last edited 9 minutes ago by you' and shows a 'Task' type with a 'Limited' permission level.

The screenshot shows the Jira Backlog view for a project named 'MyScrumProject'. The left sidebar contains navigation links for 'Summary', 'Timeline', 'Backlog' (selected), 'Board', 'Forms', 'Goals', and 'Code'. The main content area is titled 'Backlog' and includes a search bar, filters, and a list of issues. A 'Create issue' button is visible. A 'Your 30-day Premium trial' banner is on the right.

This screenshot shows a detailed view of an issue in the Jira Backlog. The issue is titled 'Issues without epic' and has a 'Start date' of 'None' and a 'Due date' of 'None'. The 'View all details' button is visible. The 'Your 30-day Premium trial' banner is on the right.

The screenshot displays the Jira interface for a project named 'MyScrumProject'. The left sidebar shows navigation options: Summary, Timeline, Backlog (selected), Board, Forms, Goals, and Project pages. The main area is titled 'Backlog' and shows a list of issues. The issues are organized into sprints: 'GMAIL sprint 1' (4 Feb - 18 Feb, 1 issue), 'SCRUM Sprint 2' (4 Feb - 18 Feb, 1 issue), and 'SCRUM Sprint 3' (0 issues). The 'Backlog' section shows two issues: 'SCRUM-3 GMAIL-1 Verify Gmail Functionality' and 'SCRUM-6 GMAIL-1 Venty Gmail Functionality'. The right sidebar features a 'Your 30-day Premium trial' banner and a list of tasks: 'Create a project', 'Create an issue', 'Start with the basics', 'Invite your teammates', 'Connect your tools', 'Get the mobile app', and 'Find help'.

Conclusion: Thus, we have successfully studied agile methodology and test case management using JIRA tool and create scrum board for scrum master using JIRA tool.