

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:

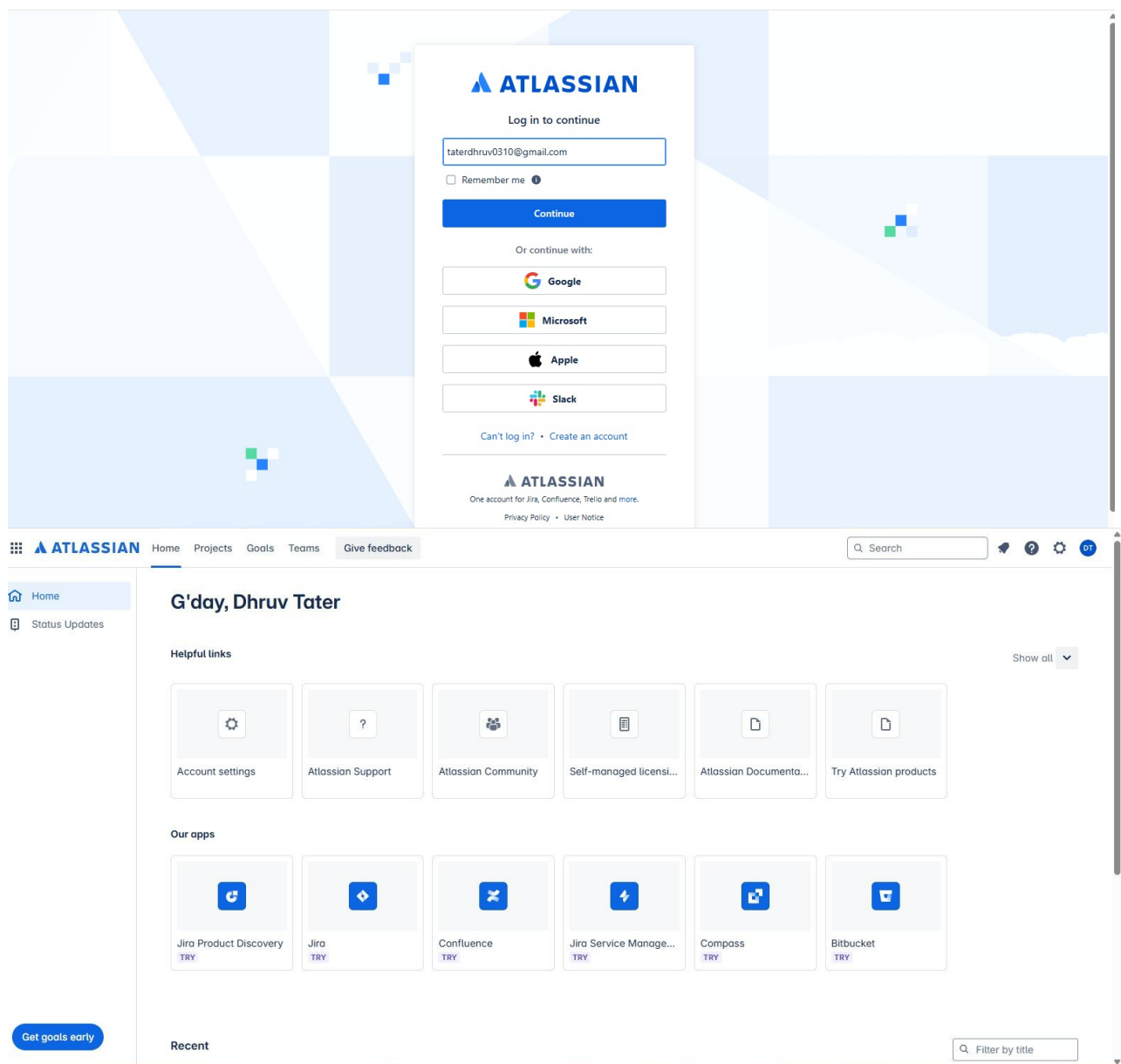
JIRA offers robust reporting and analytics capabilities, allowing teams to gain insights into their project progress, team performance, and other key metrics. Users can create custom dashboards, charts, and reports to monitor and analyze project data.

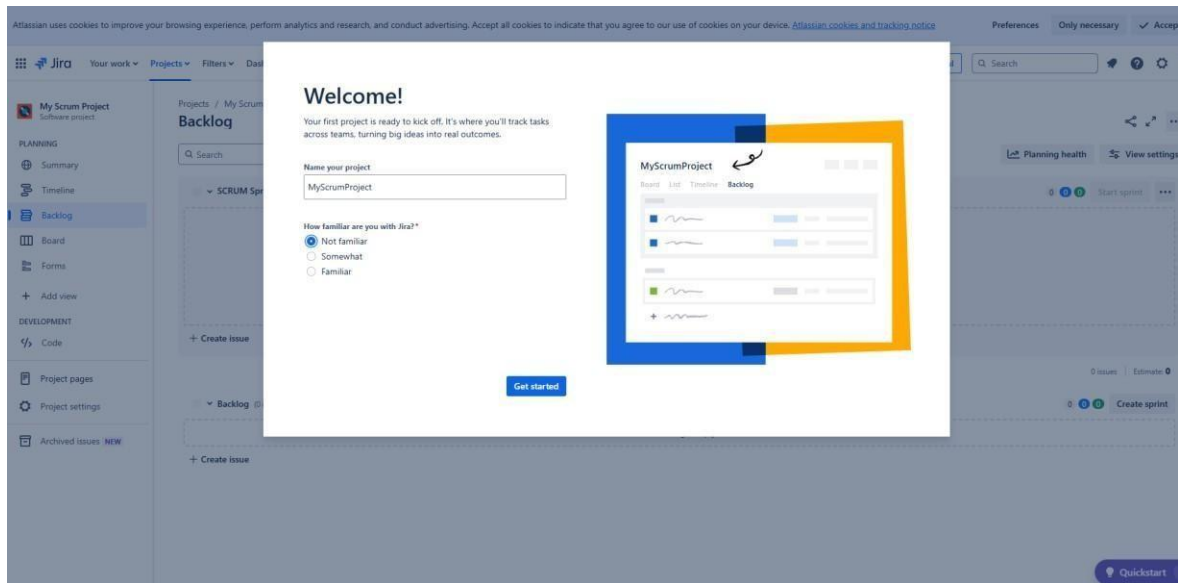
Integration:

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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Jira Your work Projects Filters Dashboards Teams Plans Apps Create Premium trial

MyScrumProject
Software project

PLANNING

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

DEVELOPMENT

- Code

Project pages

- Project settings

Archived issues NEW

Summary

0 completed in the last 7 days

1 updated in the last 7 days

1 created in the last 7 days

0 due in the next 7 days

Status overview

Get a snapshot of the status of your issues. View all issues

1 Total issues

- To Do (1)
- In Progress (0)
- Done (0)

Recent activity

Stay up to date with what's happening across the project.

Today

- Yash Rane updated the Sprint of SCRUM-1 - issues without epic 2 minutes ago
- Yash Rane created SCRUM-1 - issues without epic 2 minutes ago

Priority breakdown

Get a holistic view of how work is being prioritized. See what your team's been focusing on

1

Types of work

Get a breakdown of issues by their types. View all items

Type	Distribution
Task	100%
Epic	
Bug	
Story	
Subtask	

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Archived issues NEW

List

Search list

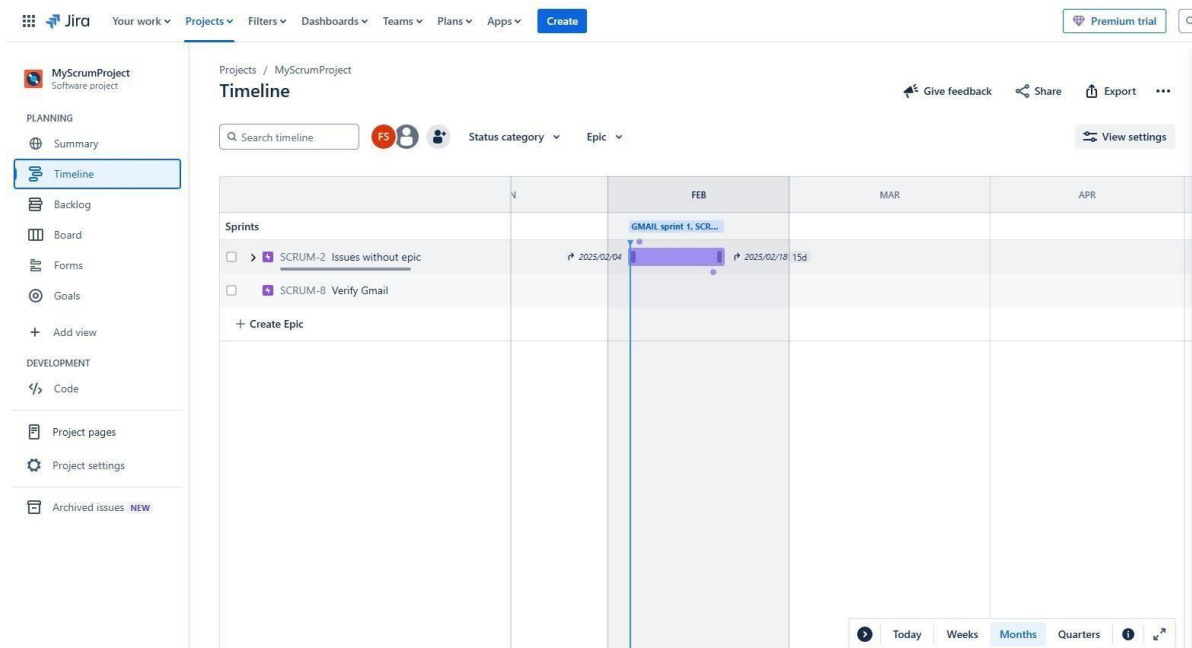
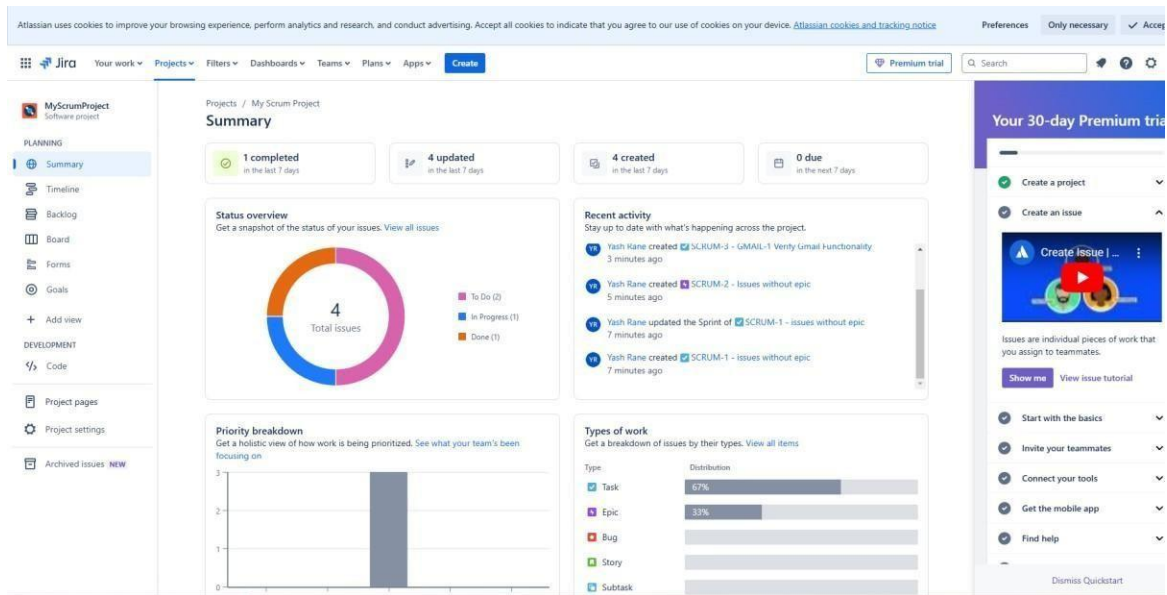
FS

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' software project. The left sidebar contains navigation options under 'PLANNING' (Summary, Timeline, Backlog, Board, Forms, Goals, Add view) and 'DEVELOPMENT' (Code, Project pages, Project settings, Archived issues). The main content area displays three sprint columns: 'TO DO 1' containing 'GMAIL Sprint 1' with sub-items 'ISSUES WITHOUT EPIC' and 'SCRUM-5'; 'IN PROGRESS 1' containing 'issues without epic' and 'SCRUM-1'; and 'DONE' which is currently empty. At the top right, there are filters for '9 days', 'Complete sprint', and 'GROUP BY' options (None, Sprint health, View settings).

This screenshot shows the 'Forms' view in Jira for the 'MyScrumProject' software project. The left sidebar is identical to the previous view, but the 'Forms' option is highlighted. 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 featuring a card for 'Project MyScrumProject - Task Fo...'. This card indicates it was 'Last edited 9 minutes ago by you' and is categorized as a 'Task' with 'Limited' permissions.

Projects / MyScrumProject

Backlog

Q Search

Planning health View settings

SCRUM Sprint 1 Add dates (1 issue)

0 1 2 Start sprint

SCRUM-1 issues without epic TO DO

+ Create issue

Backlog (0 issues) 0 1 2 Create sprint

Your backlog is empty.

+ Create issue

+ Create epic

You're in a team-managed project. [Learn more](#)

Your 30-day Premium trial

- Create a project
- Create an issue
- Create Issue! ... Watch on YouTube
- Issues are individual pieces of work that you assign to teammates. [Show me](#) [View issue tutorial](#)
- Start with the basics
- Invite your teammates
- Connect your tools
- Get the mobile app
- Find help
- Discover what else is included
- Explore Premium features

Dismiss Quickstart

Projects / MyScrumProject

Backlog

Q Search

Planning health View settings

SCRUM Sprint 1 Add dates (1 issue)

0 1 2 Start sprint

SCRUM-1 issues without epic TO DO

+ Create issue

Issues without epic

Issues without epic

No issues

Start date None

Due date None

[View all details](#)

+ Create epic

Backlog (0 issues) 0 1 2 Create sprint

Your backlog is empty.

+ Create issue

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Dismiss Quickstart

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 Code. 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), 'SCRUM-5 GMAIL Sprint 1', 'SCRUM Sprint 3' (0 issues), and 'Backlog' (2 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', 'Create 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.