

## **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:

#### **Issue Tracking:**

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.

#### **Agile Methodologies:**

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.

#### **Workflow Management:**

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.

#### **Collaboration and Communication:**

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.

#### **Reporting and Analytics:**

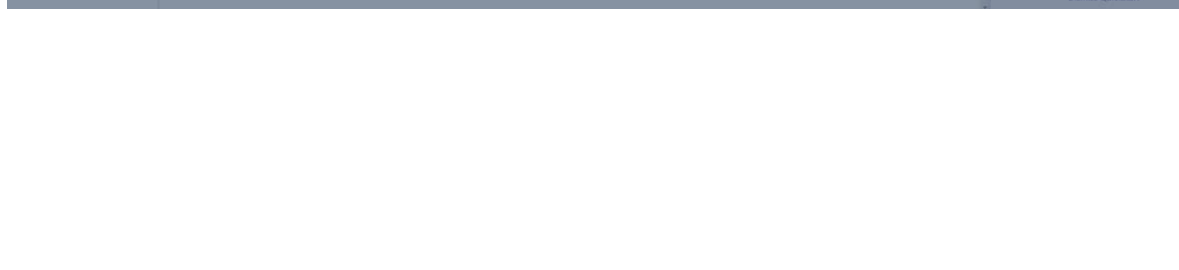
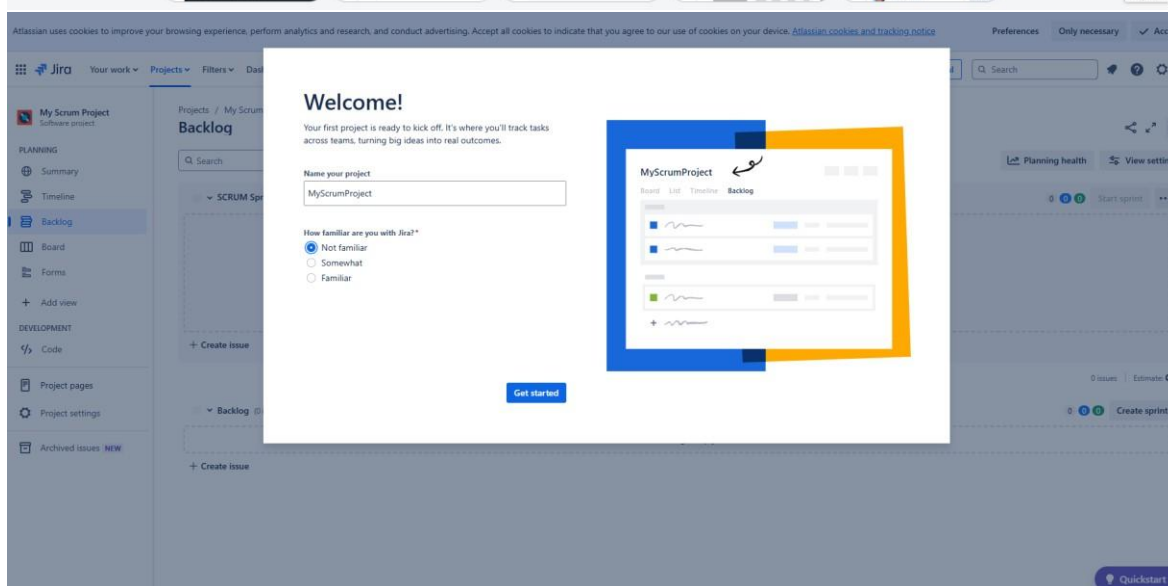
JIRA offers robust reporting and analytics capabilities, allowing teams to gain insights into their project progress, team performance, and other key metrics. Users can create custom dashboards, charts, and reports to monitor and analyze project data.

#### **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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DEVELOPMENT

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Archived issues NEW

Projects / My Scrum Project

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

15

Yash Rane updated the Sprint of [SCRUM-1 - issues without epic](#)  
2 minutes ago

16

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

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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List

Search list

FS

< Share

1 filter applied

Group

Format

More

<input type="checkbox"/>	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](#)

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Summary

1 completedin the last 7 days

4 updatedin the last 7 days

4 createdin the last 7 days

0 duein the next 7 days

Status overview

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

4Total issues

To Do (2)

In Progress (1)

Done (1)

Recent activity

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

Yash Kane created SCRUM-3 - Gmail-1 Verify Gmail functionality3 minutes ago

Yash Kane created SCRUM-2 - Issues without epic5 minutes ago

Yash Kane updated the Sprint of SCRUM-1 - Issues without epic7 minutes ago

Yash Kane created SCRUM-1 - Issues without epic7 minutes ago

Priority breakdown

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

3

2

1

0

Types of work

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

Type

Distribution

Task67%

Epic33%

Bug

Story

Subtask

Your 30-day Premium trial

Create a project

Create an issue

Create Issue I ...

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

Show meView issue tutorial

Start with the basics

Invite your teammates

Connect your tools

Get the mobile app

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Search timeline

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SCRUM-2 - Issues without epic

2025/02/04

2025/02/18

15d

SCRUM-8 - Verify Gmail

+ Create Epic

Today

Weeks

Months

Quarters

1

↻

Jira

Your work

Projects

Filters

Dashboards

Teams

Plans

Apps

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Premium trial

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All sprints

9 days ⚡ ⭐ 🔗 ⌵ Complete sprint ⋮

FS 👤 Epic Sprint

GROUP BY: None Sprint health View settings

TO DO 1

GMAIL Sprint 1

ISSUES WITHOUT EPIC

SCRUM-5

+ Create issue

IN PROGRESS 1

Issues without epic

SCRUM-1

DONE ✓

Jira

Your work

Projects

Filters

Dashboards

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Forms

Create a new form

Blank form

Feature request

Bug report

Incident report

Recent forms

Project MyScrumProject - Task Fo...

Last edited 9 minutes ago by you

Task Limited ⋮

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You're in a team-managed project

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YR

Epic

Planning health

View settings

Epic

X

SCRUM Sprint 1

Add dates

(1 issue)

Start sprint

...

SCRUM-1

issues without epic

TO DO

+ Create issue

1 issue

Estimate 0

Backlog

(0 issues)

Create sprint

Your backlog is empty.

+ Create issue

+ Create epic

Plan and prioritize large chunks of work.

Create your first epic to start capturing and breaking down work for your team.

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Create a project

Create an issue

Create Issue | ...

Watch on YouTube

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

Show me

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YR

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Planning health

View settings

Epic

X

Issues without epic

Issues without epic

No issues

Start date

None

Due date

None

View all details

+ Create epic

SCRUM Sprint 1

Add dates

(1 issue)

Start sprint

...

SCRUM-1

issues without epic

TO DO

+ Create issue

1 issue

Estimate 0

Backlog

(0 issues)

Create sprint

Your backlog is empty.

+ Create issue

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Create a project

Create an issue

Create Issue | ...

Watch on YouTube

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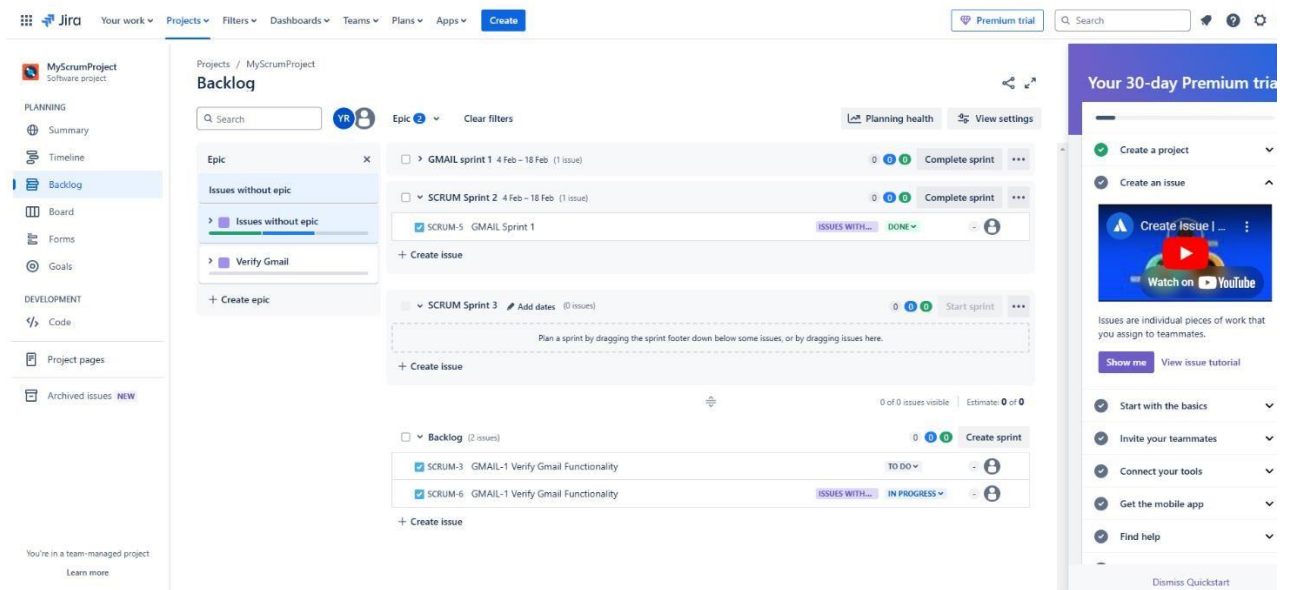
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**Conclusion:** Thus, we have successfully studied agile methodology and test case management using JIRA tool and create scrum board for scrum master using JIRA tool.