

# Software Engineering and Project Management

## EXPERIMENT – 6

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Batch: T21

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### **AIM:**

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

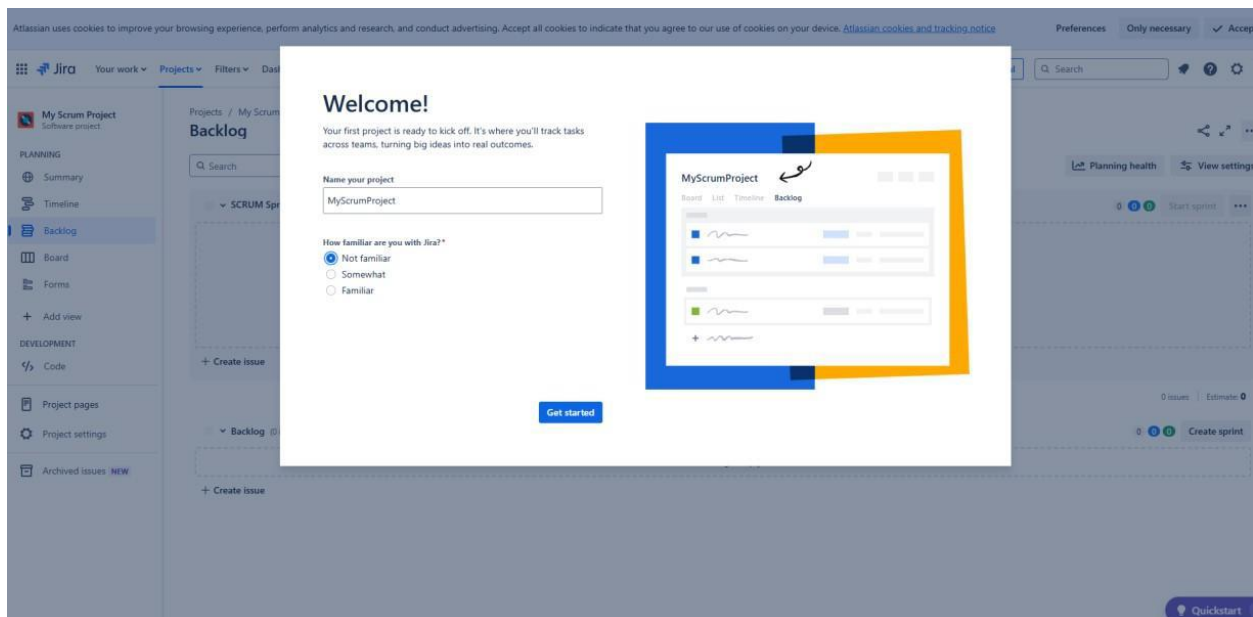
specific processes followed by the team.

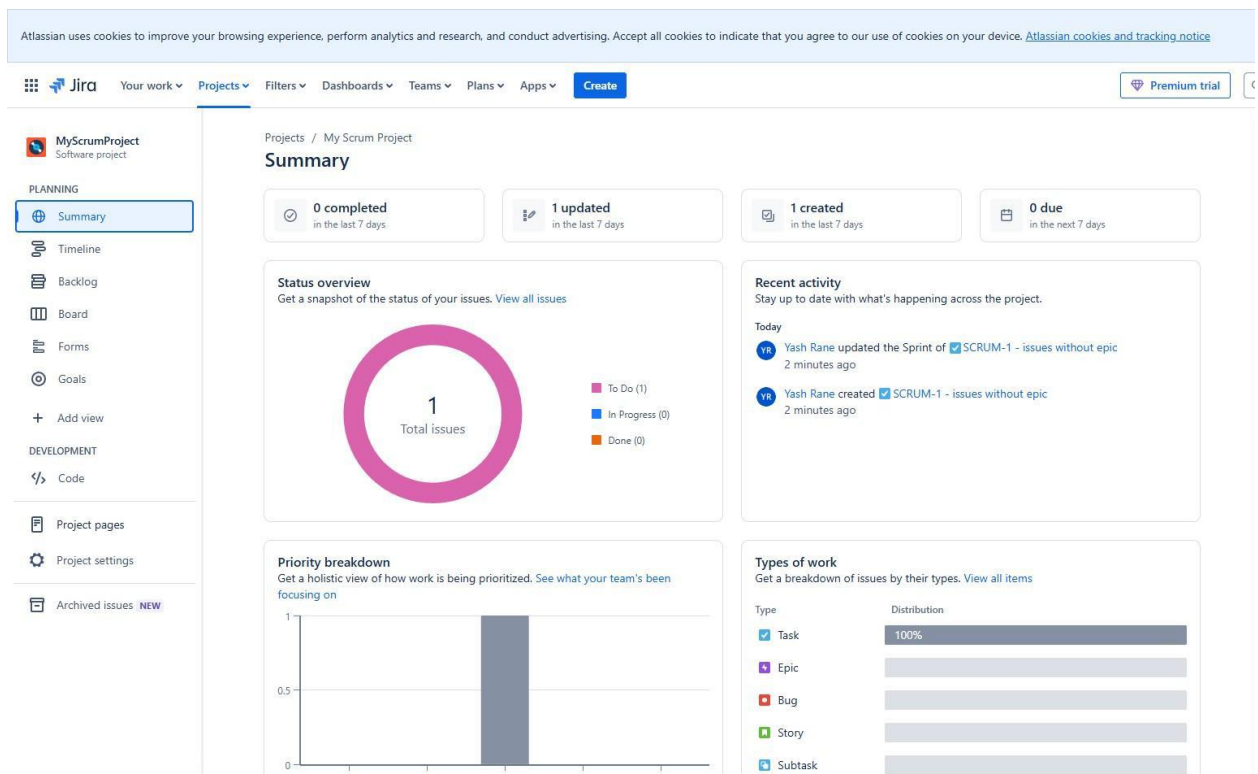
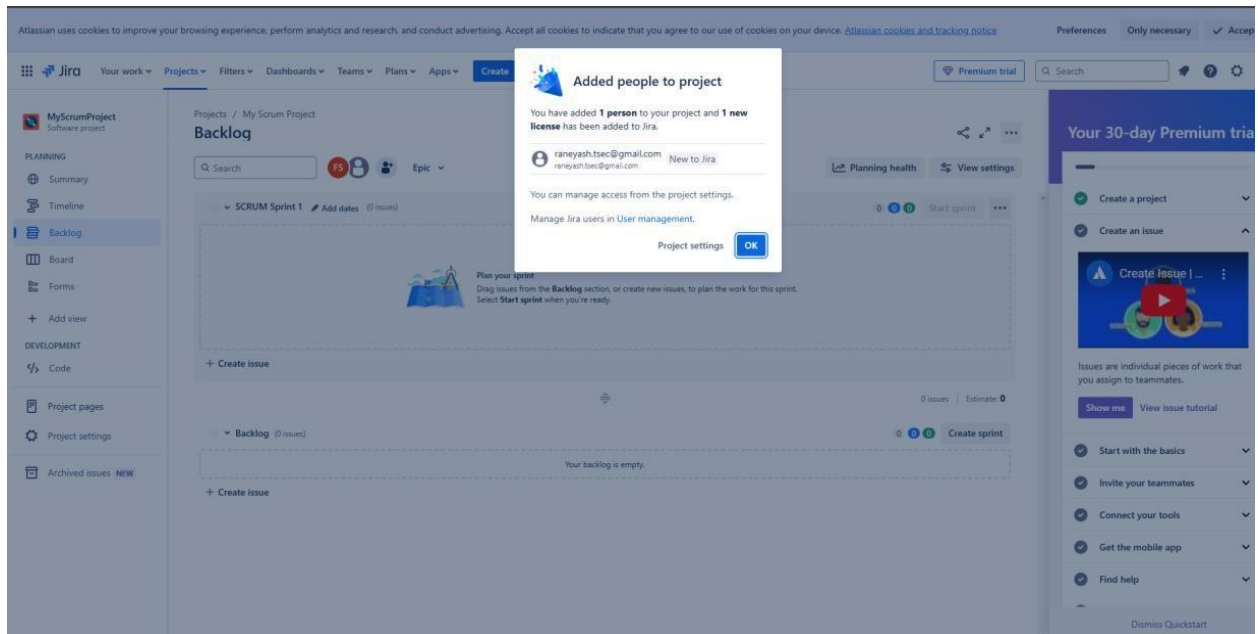
#### **Customization:**

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.

## OUTPUT:





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

Projects / MyScrumProject

List

Search list

F5

F

Share

1 filter applied

Group

Format

More

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

+ Create

Nice one!

Marked "SCRUM-4" as Done

[View Issue](#)

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Projects / My Scrum Project

Summary

1 completed

in the last 7 days

4 updated

in the last 7 days

4 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

4

Total issues

To Do (2)

In Progress (1)

Done (1)

Recent activity

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

16

Yash Rane created SCRUM-3 - EMAIL-1 Verify Email Functionality

3 minutes ago

16

Yash Rane created SCRUM-2 - Issues without epic

5 minutes ago

16

Yash Rane updated the Sprint of SCRUM-1 - issues without epic

7 minutes ago

16

Yash Rane created SCRUM-1 - issues without epic

7 minutes ago

Priority breakdown

Get a holistic view of how work is 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

Task

67%

Epic

33%

Bug

Story

Subtask

Your 30-day Premium trial

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

Connect your tools

Get the mobile app

Find help

Dismiss Quickstart

MyScrumProject

Software project

PLANNING

Summary

Timeline

Backlog

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Add view

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Project settings

Archived issues NEW

Projects / MyScrumProject

Timeline

Give feedback

Share

Export

...

Search timeline

FS

Status category

Epic

View settings

	JAN	FEB	MAR	APR
Sprints		<div>GMAIL sprint 1, SCR...</div>		
<div><input type="checkbox"/> &gt; SCRUM-2 Issues without epic</div>		<div>2025/02/04</div> <div>2025/02/18 15d</div>		
<div><input type="checkbox"/> SCRUM-8 Verify Gmail</div>				
<div>+ Create Epic</div>				

Today

Weeks

Months

Quarters

1

...

MyScrumProject

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Archived issues NEW

Projects / MyScrumProject

All sprints

9 days

...

Complete sprint

...

Search

FS

Epic

Sprint

GROUP BY: None

Sprint health

View settings

TO DO 1

IN PROGRESS 1

DONE ✓

GMAIL Sprint 1

ISSUES WITHOUT EPIC

☒ SCRUM-5

+ Create issue

issues without epic

☒ SCRUM-1

Jira

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Create

MyScrumProject

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Archived issues NEW

Projects / MyScrumProject

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

Jira

Your work

Projects

Filters

Dashboards

Teams

Plans

Apps

Create

MyScrumProject

Software project

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Board

Forms

Goals

Add view

DEVELOPMENT

Code

Project pages

Archived issues NEW

Projects / MyScrumProject

Backlog

Search

VS

Epic

SCRUM Sprint 1

Add dates (1 issue)

Start sprint

SCRUM-1

Issues without epic

TO DO

Create issue

Epic

Plan and prioritize large chunks of work.

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

Create epic

Your backlog is empty.

Create sprint

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

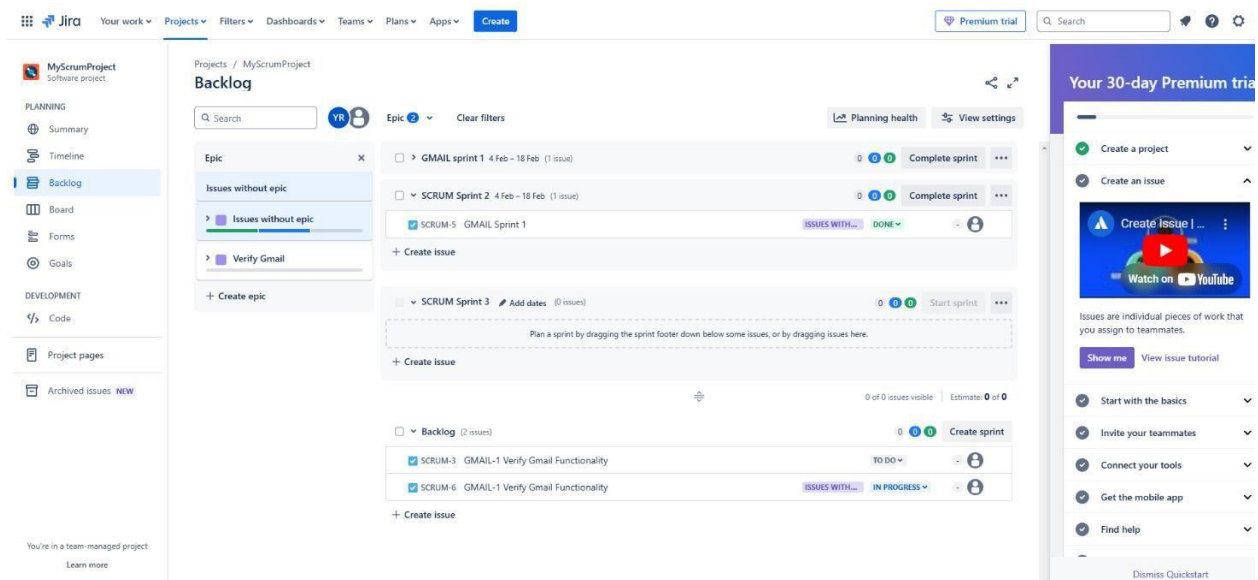
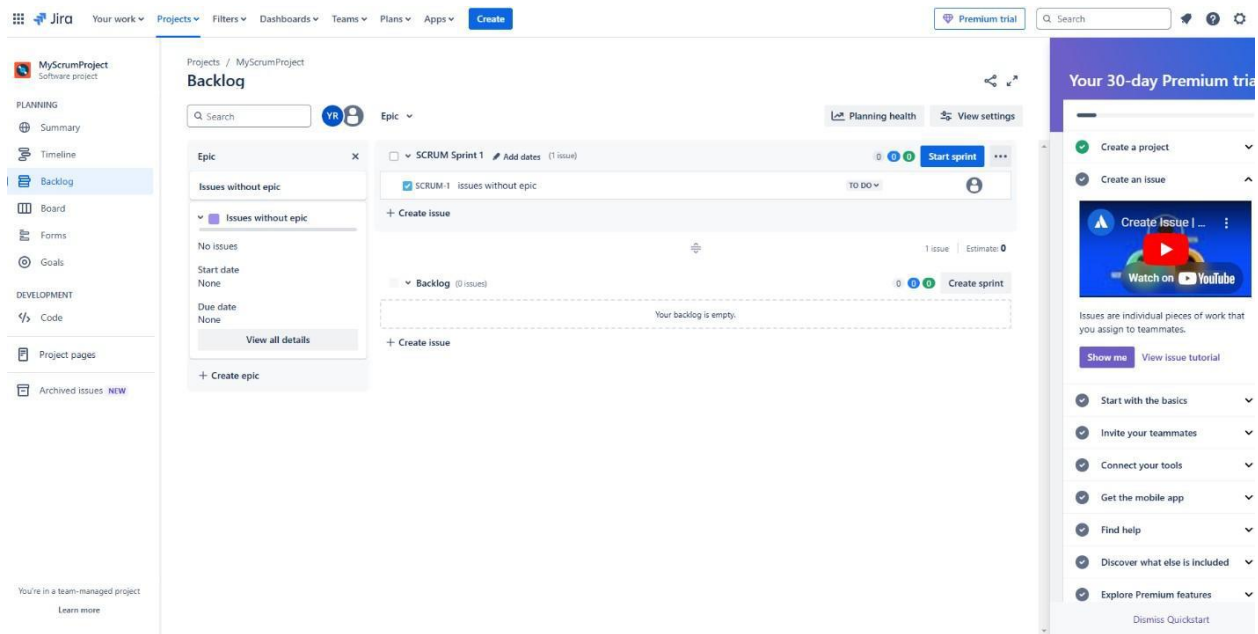
Find help

Discover what else is included

Explore Premium features

Dismiss Quickstart

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



## 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.