

**Name** – MELISSA DSILVA

**Batch** – T12

**Roll No.** - 26

## **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:**

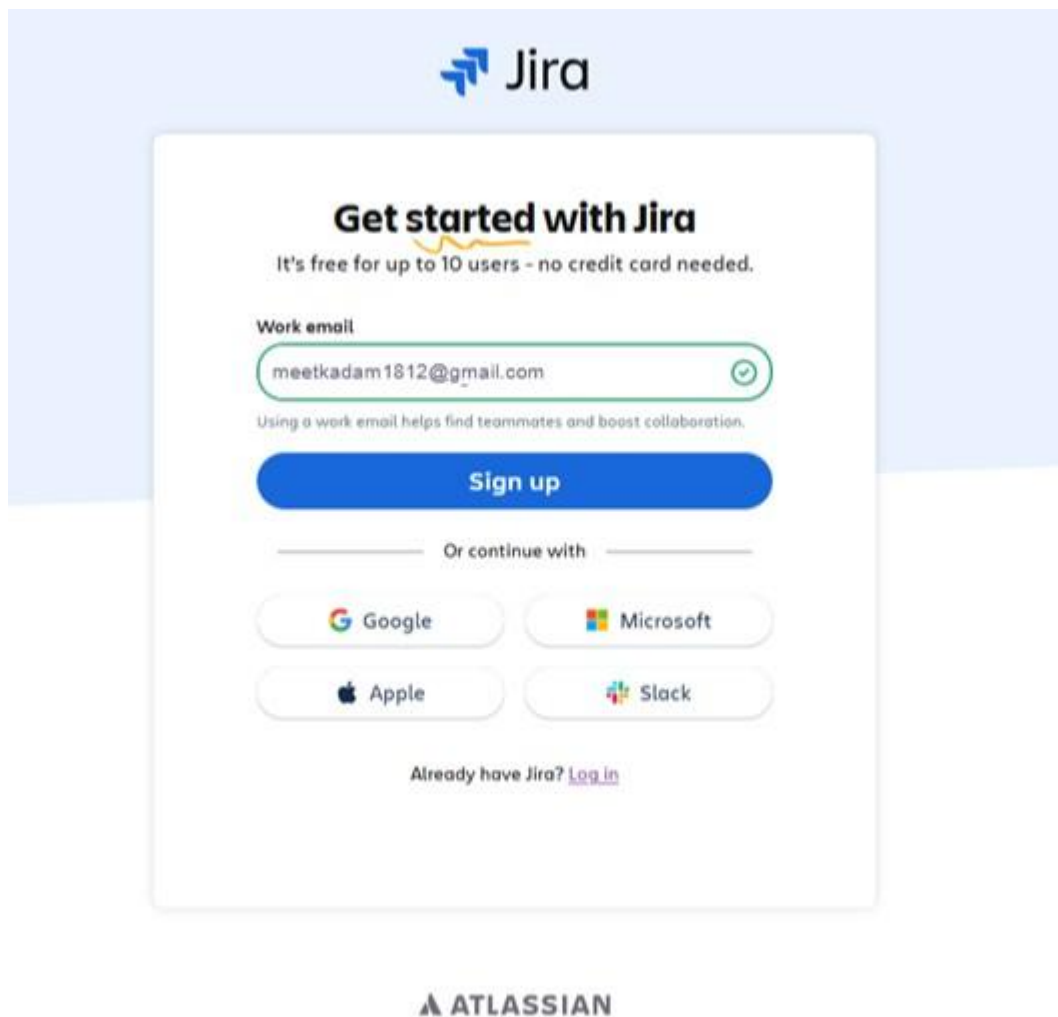
JIRA offers robust reporting and analytics capabilities, allowing teams to gain insights into their project progress, team performance, and other key metrics. Users can create custom dashboards, charts, and reports to monitor and analyze project data.

**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.



The image shows the Jira sign-up interface. At the top, the Jira logo is displayed. Below it, the heading "Get started with Jira" is followed by the text "It's free for up to 10 users - no credit card needed." A "Work email" input field contains the email address "meetkadam1812@gmail.com" and has a green checkmark icon to its right. Below the input field, a note states "Using a work email helps find teammates and boost collaboration." A large blue "Sign up" button is positioned below the note. Underneath the button, the text "Or continue with" is centered, followed by four social login buttons: Google, Microsoft, Apple, and Slack. At the bottom of the form, the text "Already have Jira?" is followed by a "Log in" link. The Atlassian logo is located at the very bottom of the page.

**Jira**

**Get started with Jira**  
It's free for up to 10 users - no credit card needed.

Work email  
meetkadam1812@gmail.com ✓

Using a work email helps find teammates and boost collaboration.

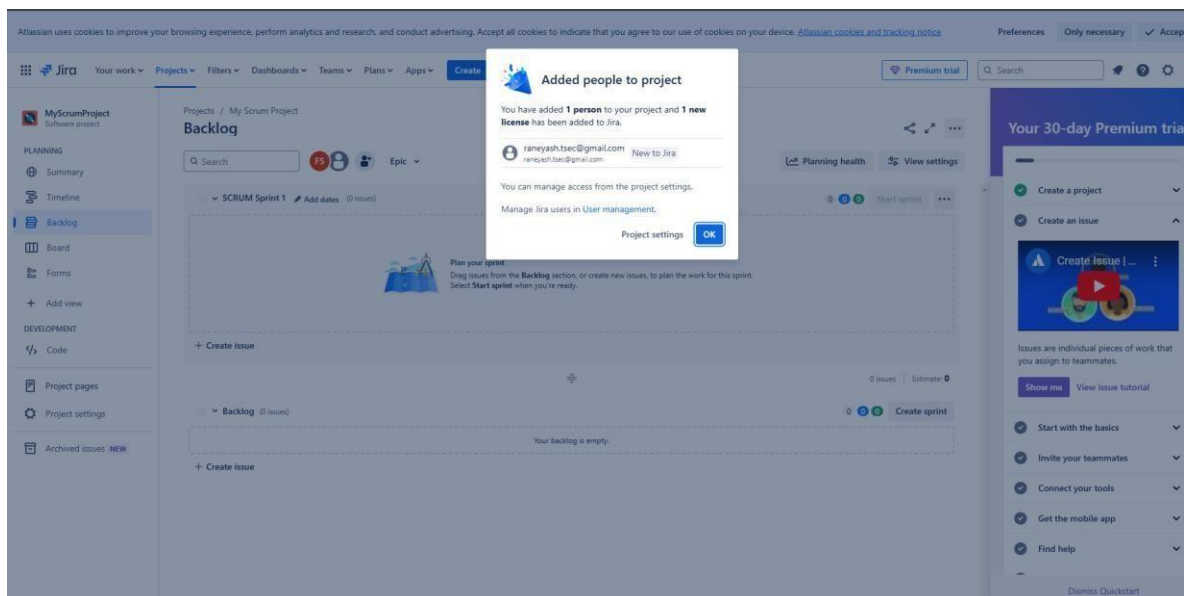
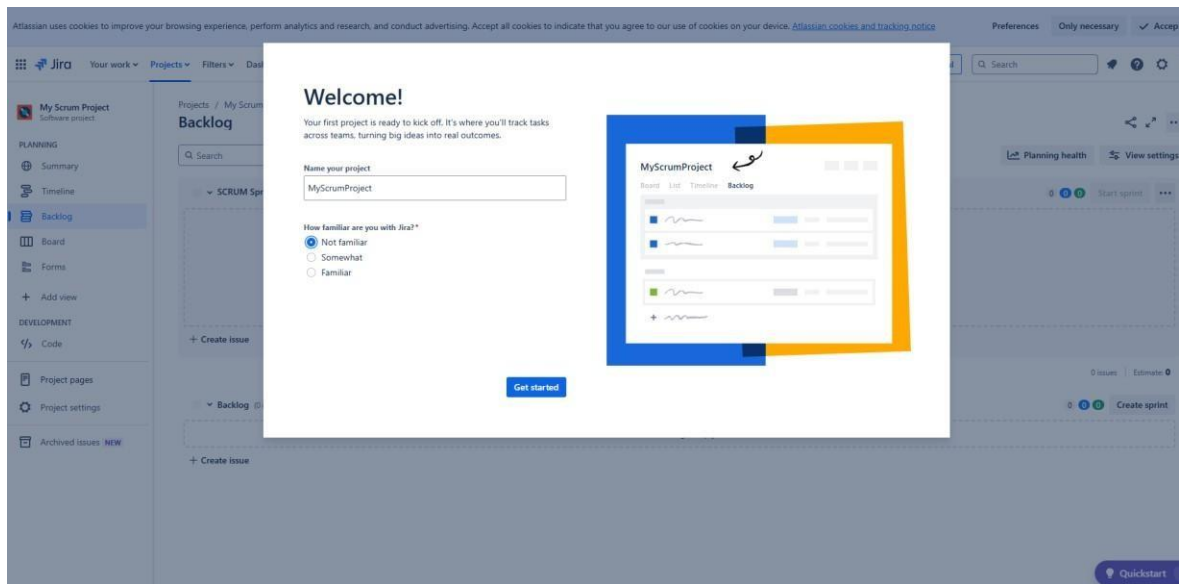
**Sign up**

Or continue with

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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**

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)

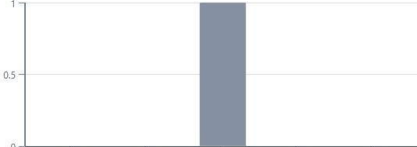
Done (0)

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

Today

- 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



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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Software project

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Archived issues **NEW**

Projects / MyScrumProject

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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PreferencesOnly necessary✓ Accept

MyScrumProjectSoftware project

SummaryTimelineBacklogBoardFormsGoalsAdd viewProject pagesProject settingsArchived issuesNEW

Projects / MyScrumProjectSummary

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

4Total issues

To Do (2)

In Progress (1)

Done (1)

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

Yash Rane created SCRUM-3 - Gmail-1 Verify (gmail functionality)3 minutes ago

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

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

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

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

3

2

1

0

Types of workGet a breakdown of issues by their types. View all items

TypeDistribution

Task67%

Epic33%

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 meView issue tutorial

Start with the basics

Invite your teammates

Connect your tools

Get the mobile app

Find help

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MyScrumProjectSoftware project

SummaryTimelineBacklogBoardFormsGoalsAdd viewProject pagesProject settingsArchived issuesNEW

Projects / MyScrumProjectTimeline

Give feedbackShareExportView settings

Search timelineFS

Status categoryEpic

	FEB	MAR	APR
Sprints	GMAIL sprint 1, SCR...		
<input type="checkbox"/> > SCRUM-2 - Issues without epic	2025/02/042025/02/1815d		
<input type="checkbox"/> SCRUM-8 - Verify Gmail			
<div>+ Create Epic</div>			

TodayWeeksMonthsQuarters1

Jira

Your work

Projects

Filters

Dashboards

Teams

Plans

Apps

Create

Premium trial

MyScrumProject

Software project

Projects / MyScrumProject

All sprints

9 days

Complete sprint

Q 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

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Create

MyScrumProject

Software project

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

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Archived issues NEW

You're in a team-managed project

Learn more

Projects / MyScrumProject

Backlog

Q Search

YR

EPIC

SCRUM Sprint 1

Add dates (1 issue)

0

0

0

Start sprint

...

SCRUM-1

issues without epic

TO DO

+ Create issue

Backlog (0 issues)

0

0

0

Create sprint

Your backlog is empty.

+ Create issue

Planning health

View settings

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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.

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Backlog

Q Search

YR

EPIC

SCRUM Sprint 1

Add dates (1 issue)

0

0

0

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

Planning health

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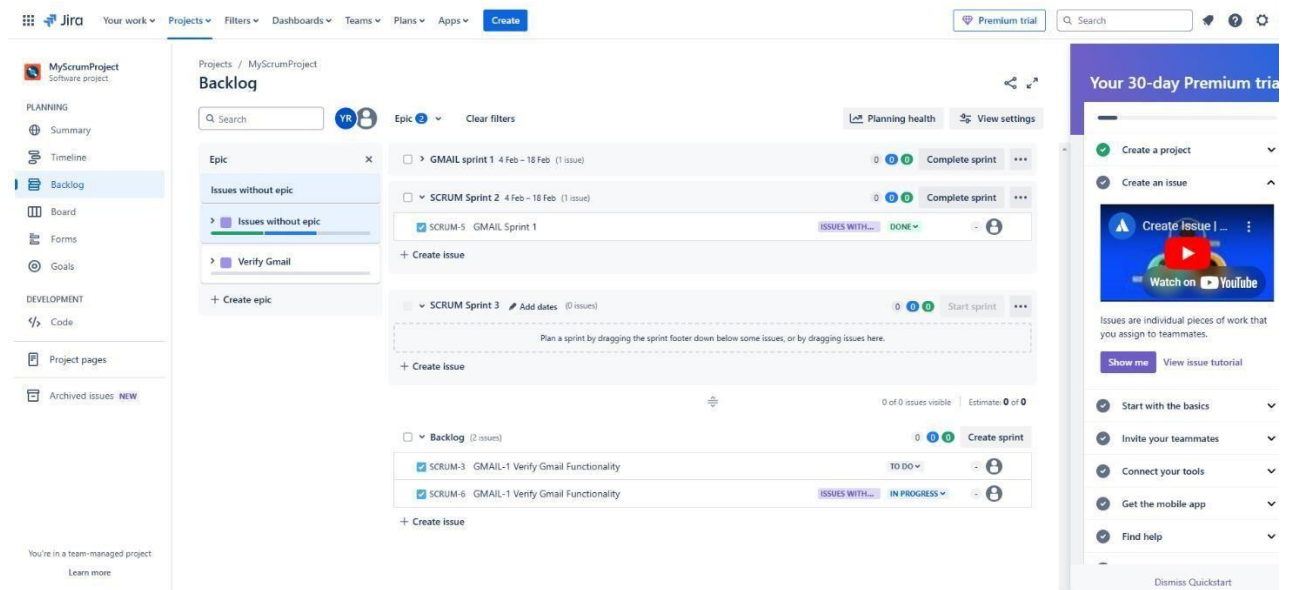
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**Conclusion:** Thus, we have successfully studied agile methodology and test case management using JIRA tool and create scrum board for scrum master using JIRA tool.