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**Batch: T-11**

**Roll No: 21**

# **Software Engineering and Project Management**

## **EXPERIMENT – 6**

**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.

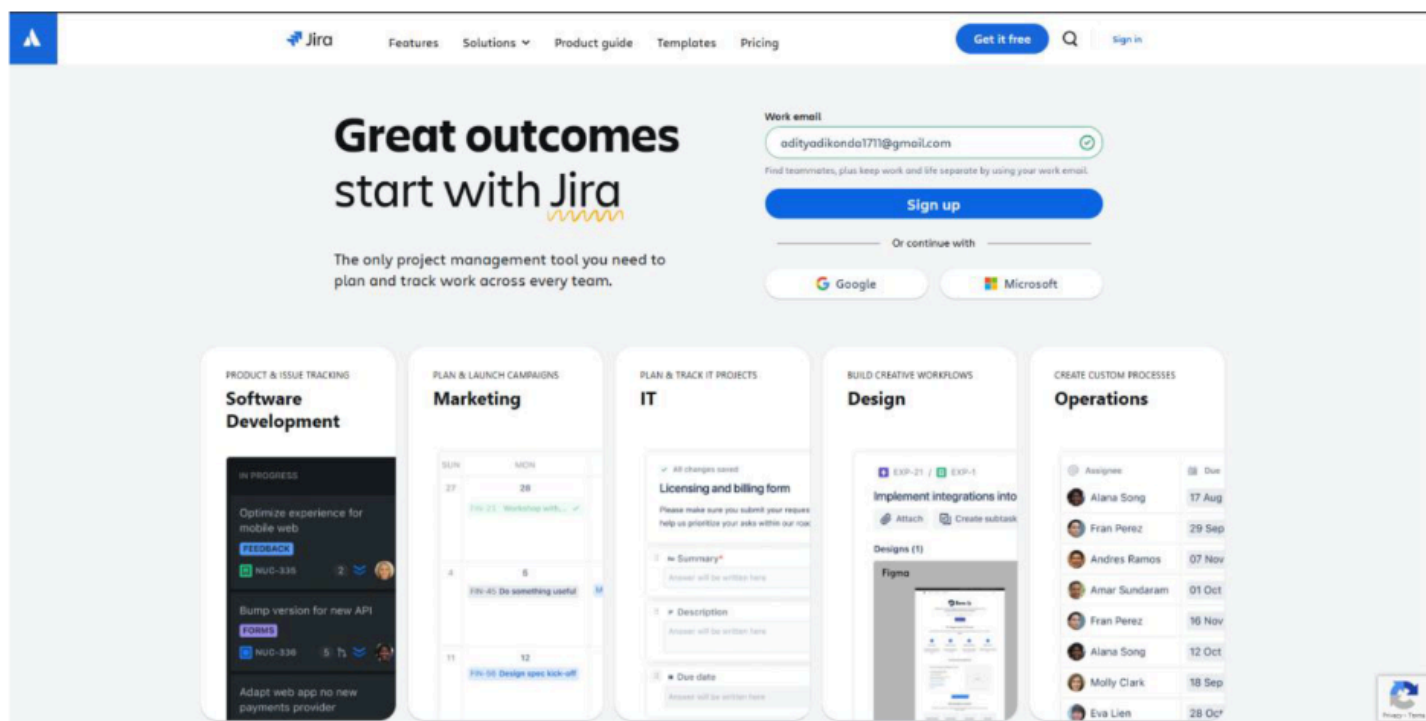
### **Customization:**

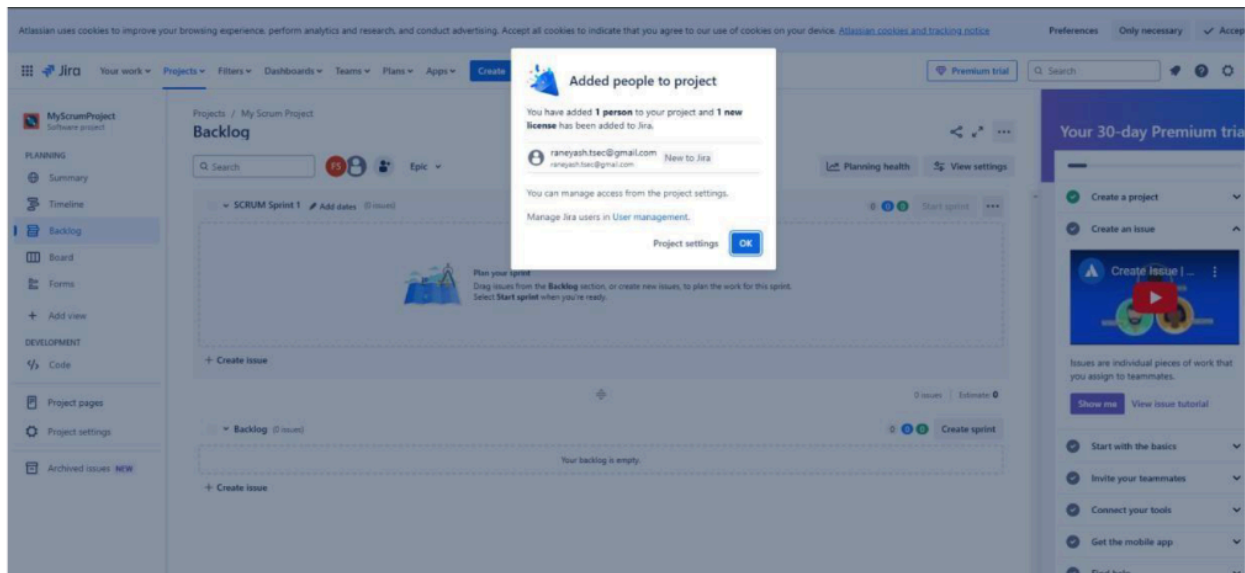
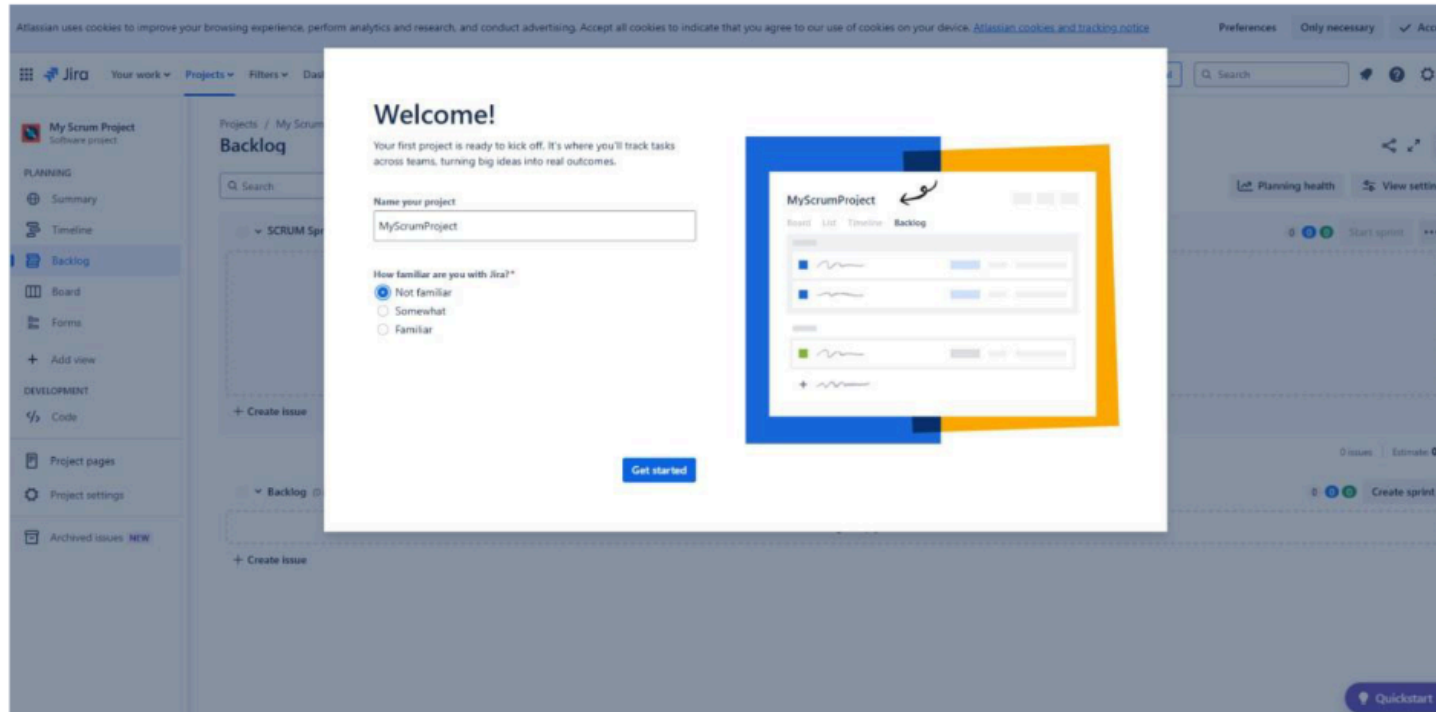
One of the key strengths of JIRA is its flexibility and customization options. Teams can tailor JIRA to their specific needs by creating custom issue types, fields, workflows, and project configurations.

**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:**





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Jira

Your work

Projects

Filters

Dashboards

Teams

Plans

Apps

Create

Premium trial

MyScrumProject

Software project

PLANNING

Summary

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Backlog

Board

Forms

Goals

Add view

DEVELOPMENT

Code

Project pages

Project settings

Archived issues NEW

Projects / MyScrumProject

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

Jira

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List

Search list

FS

Give feedback

Share

1 filter applied

Group

Format

More

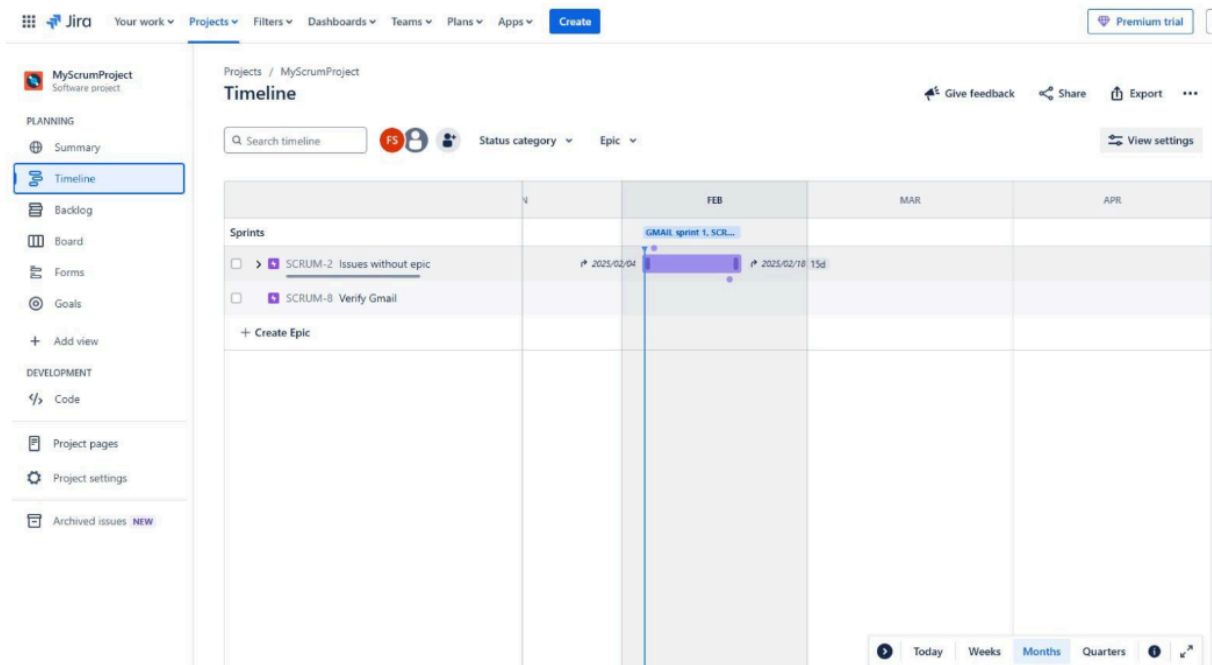
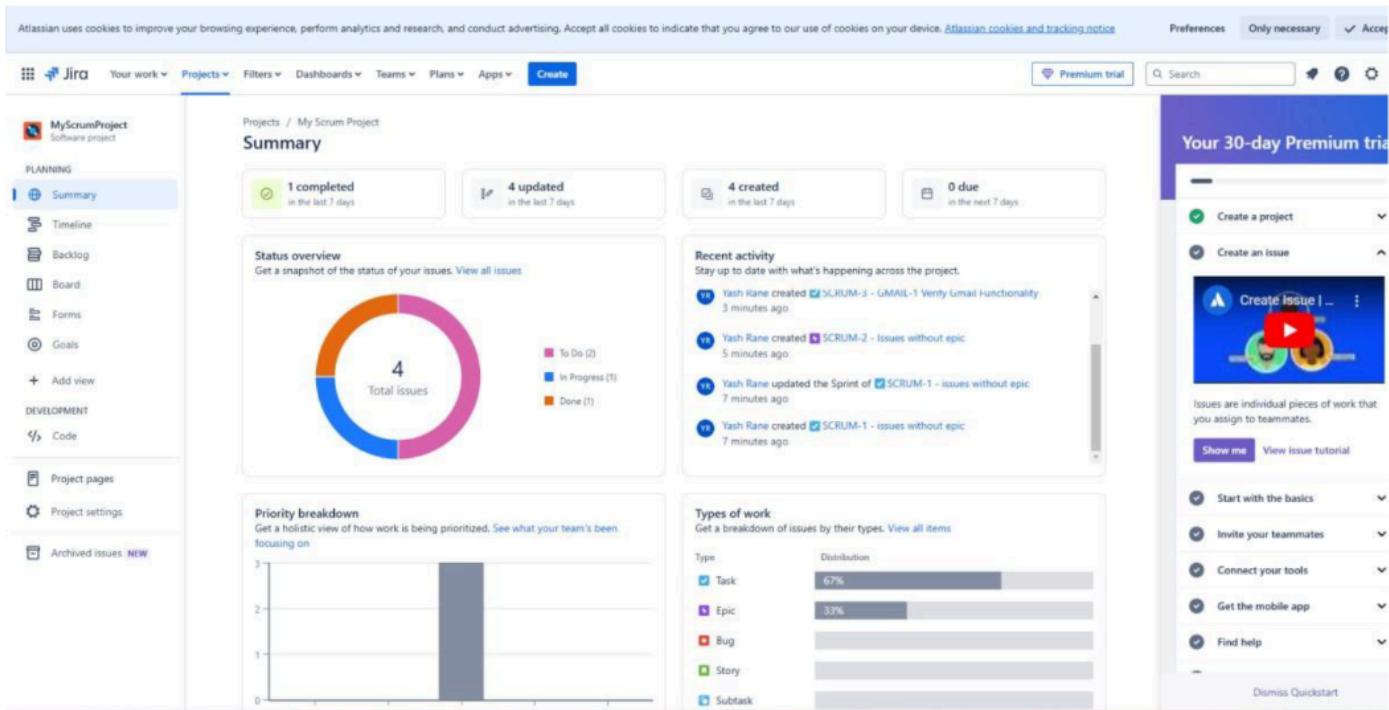
	Type	#	Key	Summary	Status	Sprint	Assignee	Due date	
<input type="checkbox"/>			SCRUM-2	Issues without epic	TO DO				
<input type="checkbox"/>			SCRUM-3	GMAIL-1 Verify Gmail Functionality	TO DO				

+ Create

Nice one!

Marked "SCRUM-4" as Done

[View issue](#)



Jira

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Premium trial

MyScrumProject

Software project

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

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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

MyScrumProject

Software project

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Archived issues NEW

You're in a team-managed project.

Learn more

Projects / MyScrumProject

Backlog

Q Search

YR

Avatar

Epic

Planning health

View settings

Epic

Plan and prioritize large chunks of work.

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

+ Create epic

SCRUM Sprint 1

Add dates

(1 issue)

0

0

0

Start sprint

...

SCRUM-1

Issues without epic

TO DO

Avatar

+ Create issue

Backlog

(0 issues)

0

0

0

Create sprint

Your backlog is empty.

+ Create issue

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

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Epic

Planning health

View settings

Epic

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)

0

0

0

Start sprint

...

SCRUM-1

Issues without epic

TO DO

Avatar

+ Create issue

Backlog

(0 issues)

0

0

0

Create sprint

Your backlog is empty.

+ Create issue

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

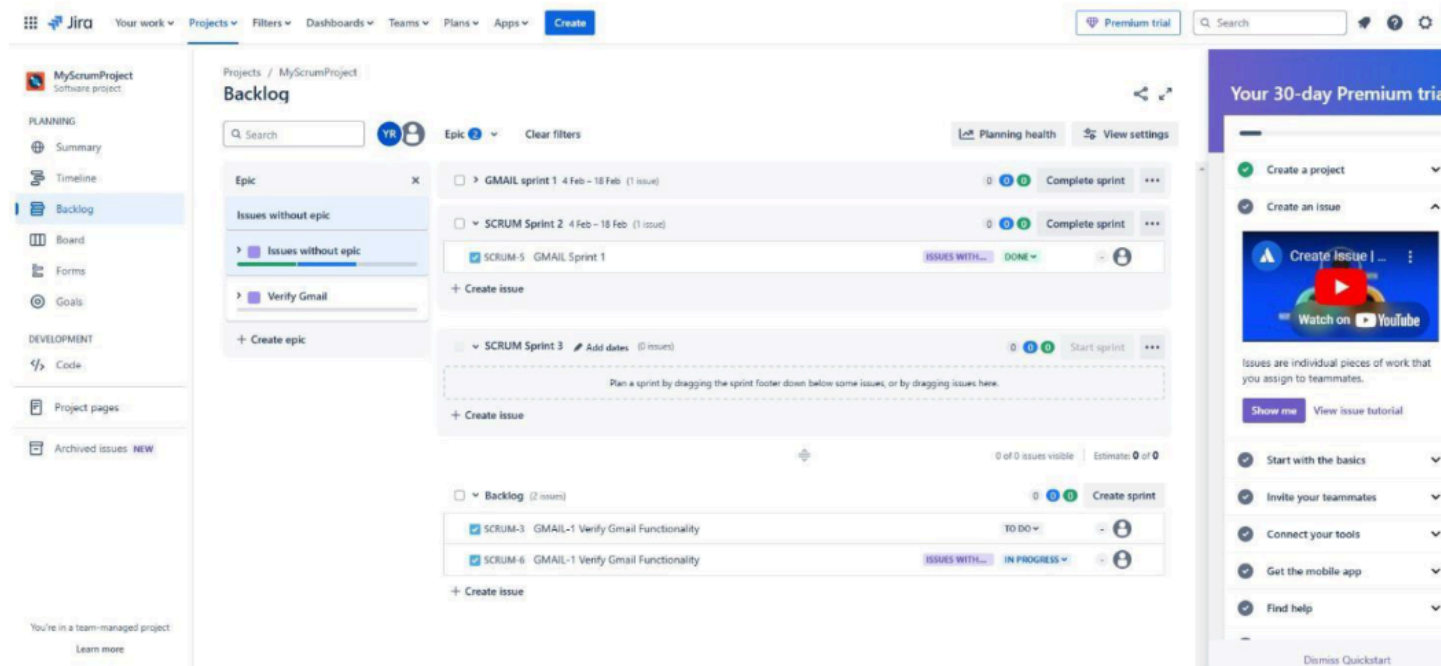
Get the mobile app

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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.