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# **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.

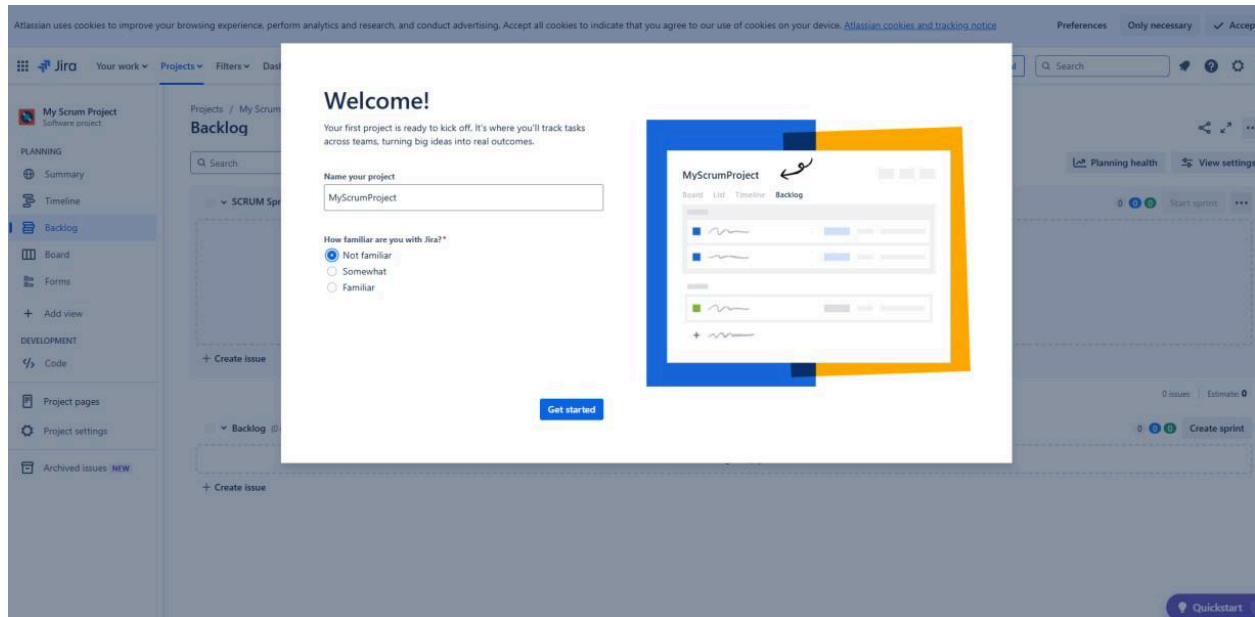
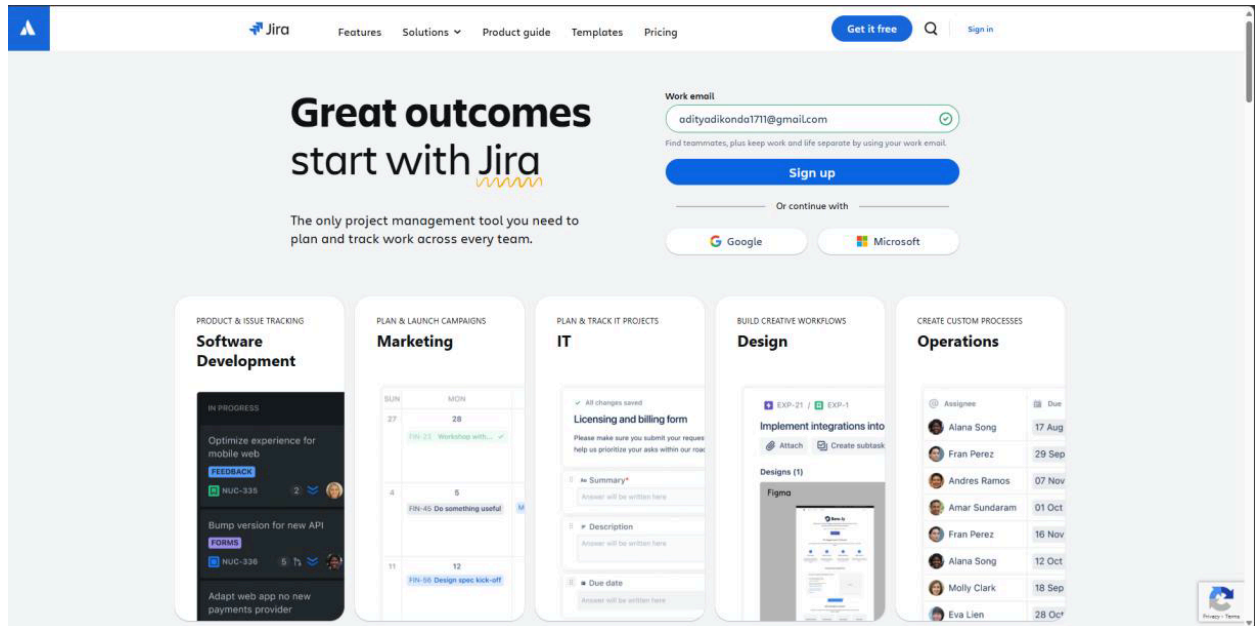
**Customization:**

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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MyScrumProject Software project

PLANNING

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

DEVELOPMENT

- Code

Project pages

- Project settings
- Archived issues NEW

Added people to project

You have added 1 person to your project and 1 new license has been added to Jira.

raneyash1sec@gmail.com New to Jira  
raneyash1sec@gmail.com

You can manage access from the project settings.  
Manage Jira users in User management.

Project settings OK

Projects / My Scrum Project

## Backlog

Q Search

FS Epic

SCRUM Sprint 1 Add dates (0 issues)

Plan your sprint  
Drag issues from the Backlog section, or create new issues, to plan the work for this sprint.  
Select Start sprint when you're ready.

+ Create issue

0 issues Estimate 0

Backlog (0 issues)

Your backlog is empty.

+ Create issue

0 issues Estimate 0

Create sprint

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

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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.

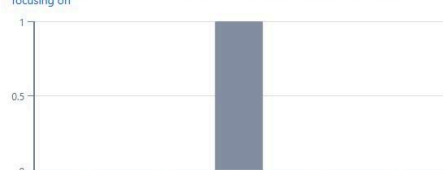
Today

- 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

Types of work  
Get a breakdown of issues by their types. [View all items](#)

Type	Distribution
<input checked="" type="checkbox"/> Task	100%
<input type="checkbox"/> Epic	
<input type="checkbox"/> Bug	
<input type="checkbox"/> Story	
<input type="checkbox"/> Subtask	

Priority breakdown  
Get a holistic view of how work is being prioritized. [See what your team's been focusing on](#)



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Projects / MyScrumProject

List

Search list

FS

F

Share

1 filter applied

Group

Format

More

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

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Archived issues NEW

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.

Yash Rane created SCRUM-3 - GMAIL-1 Verify Gmail Functionality 3 minutes ago

Yash Rane created SCRUM-2 - Issues without epic 5 minutes ago

Yash Rane updated the Sprint of SCRUM-1 - issues without epic 7 minutes ago

Yash Rane created SCRUM-1 - issues without epic 7 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	67%
Epic	33%
Bug	
Story	
Subtask	

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Create a project

Create an issue

Create issue | ...

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Timeline

Give feedback

Share

Export

...

Search timeline

FS

Status category

Epic

View settings

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

Today

Weeks

Months

Quarters

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All sprints

9 days

Complete sprint

...

Search

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

Teams

Plans

Apps

Create

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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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Backlog

Q Search

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

Start sprint

SCRUM-1

Issues without epic

10:00

Create issue

Backlog

0 issues

Create sprint

Your backlog is empty.

Create issue

Your 30-day Premium trial

Create a project

Create an issue

Create issue | Watch on YouTube

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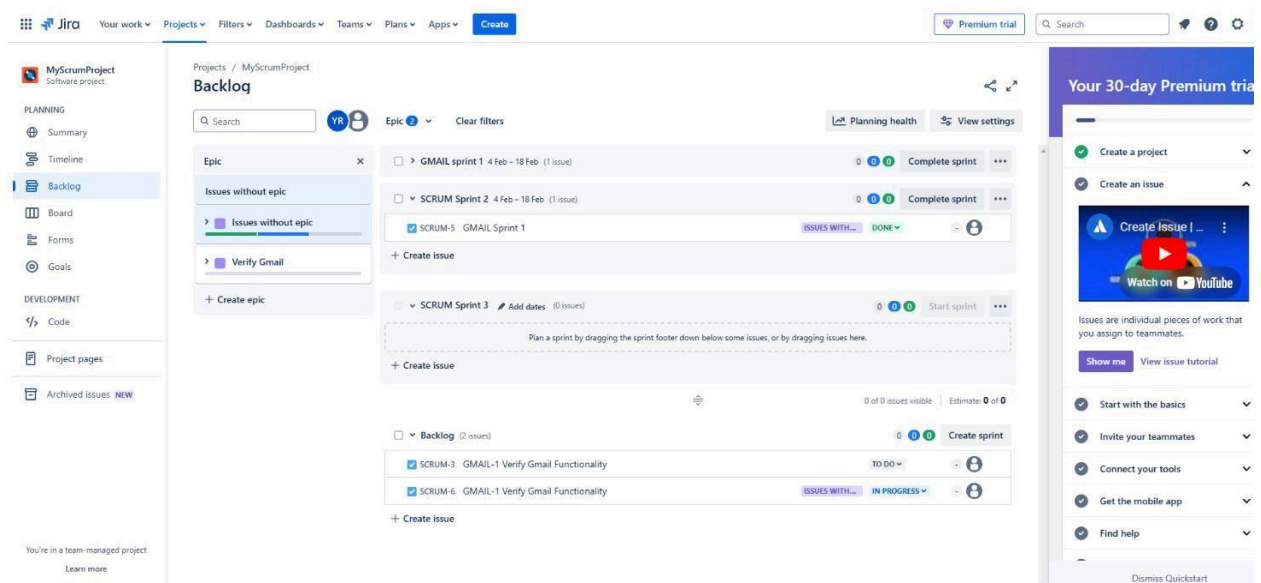
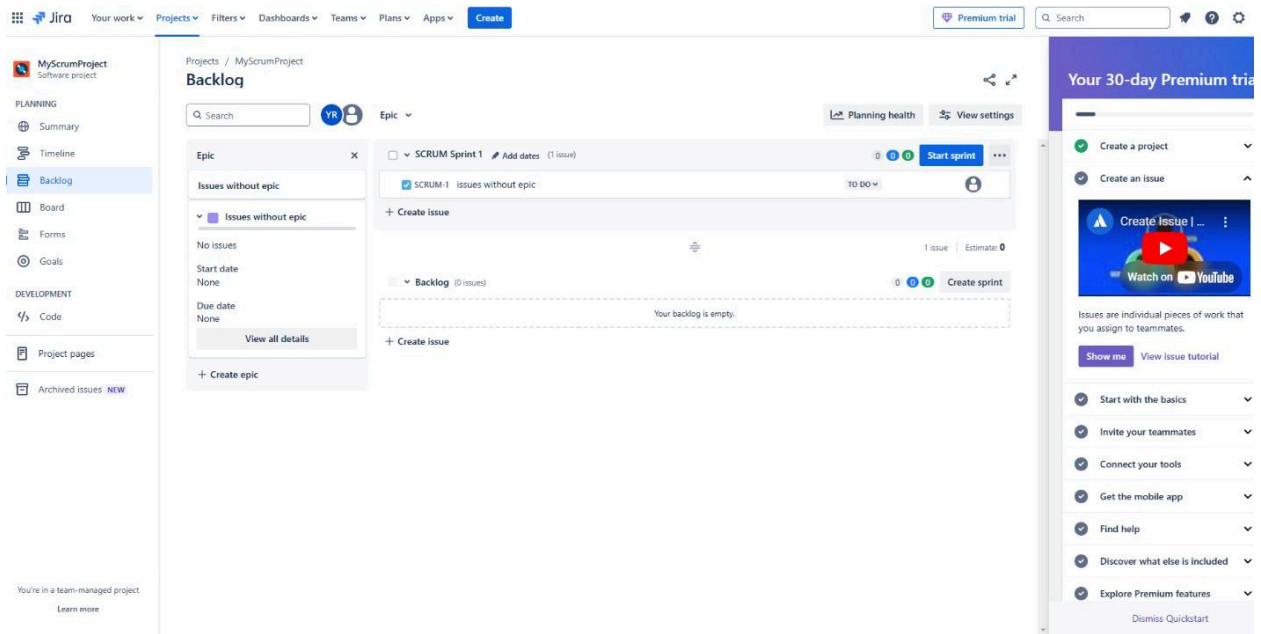
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**CONCLUSION:** Thus, we have successfully studied agile methodology and test case management using JIRA tool and create scrum board for scrum master using JIRA tool.