

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.

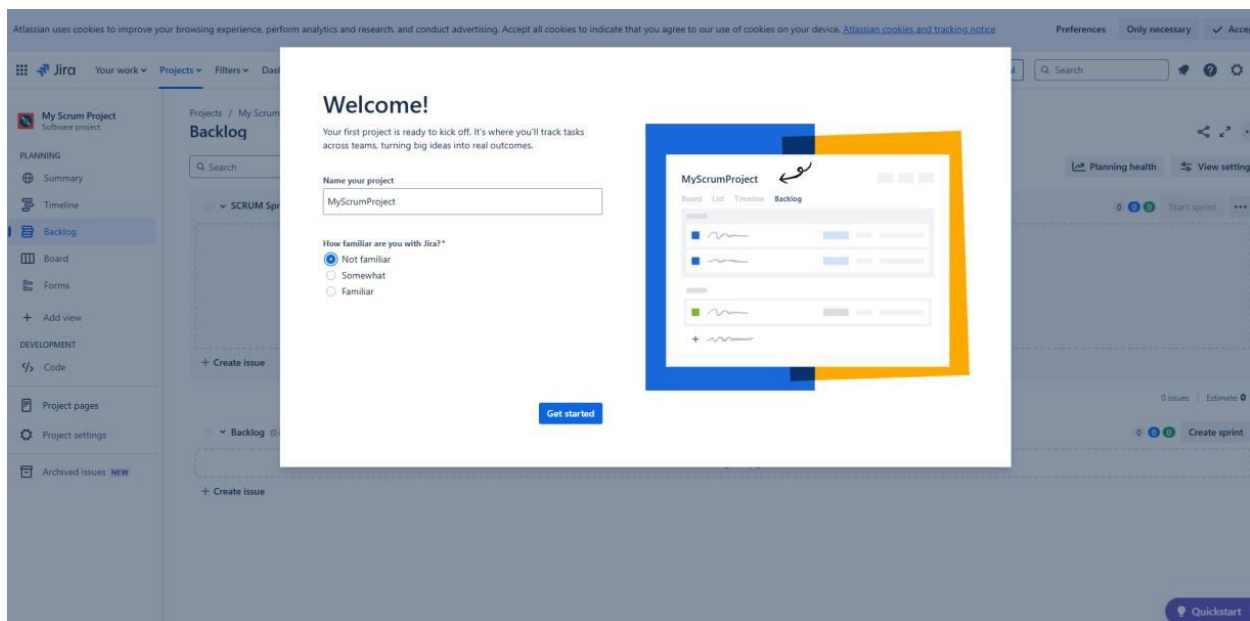
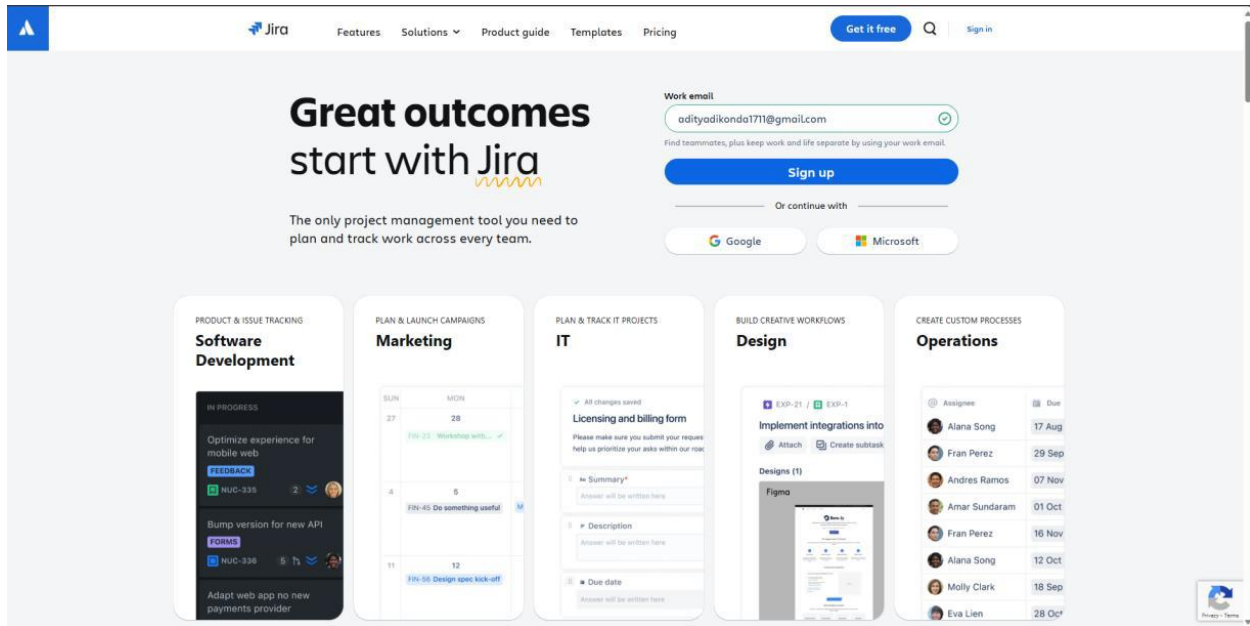
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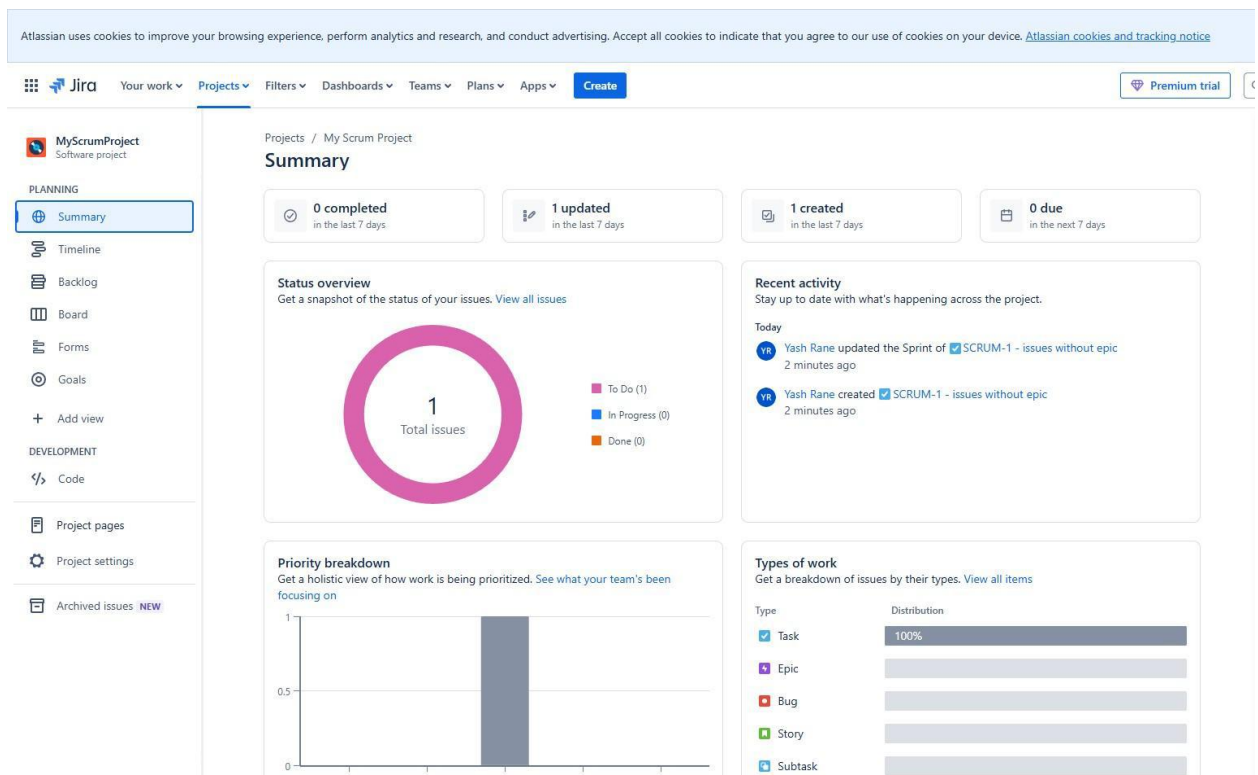
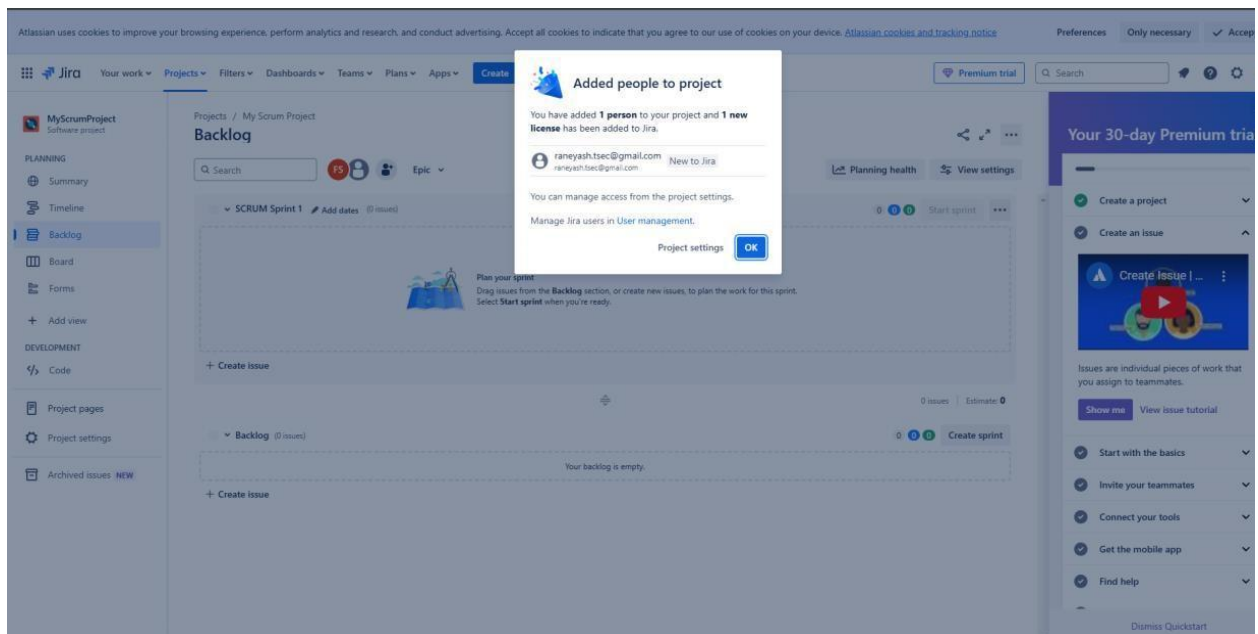
One of the key strengths of JIRA is its flexibility and customization options. Teams can tailor JIRA to their specific needs by creating custom issue types, fields, workflows, and project configurations.

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

Timeline

Give feedback Share Export View settings

Search timeline FS

Status category Epic

	FEB	MAR	APR
Sprints			
<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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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 ✓
<p>GMAIL Sprint 1</p> <p>ISSUES WITHOUT EPIC</p> <p><input checked="" type="checkbox"/> SCRUM-5</p> <p>+ Create issue</p>	<p>issues without epic</p> <p><input checked="" type="checkbox"/> SCRUM-1</p>	

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Project pages

Project settings

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 Premium trial Search

MyScrumProject Software project

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DEVELOPMENT

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Project pages

Archived issues NEW

You're in a team-managed project Learn more

Projects / MyScrumProject

Backlog

Search VS 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) Start sprint

SCRUM-1 issues without epic TO DO

+ Create issue

Backlog (0 issues) Create sprint

Your backlog is empty.

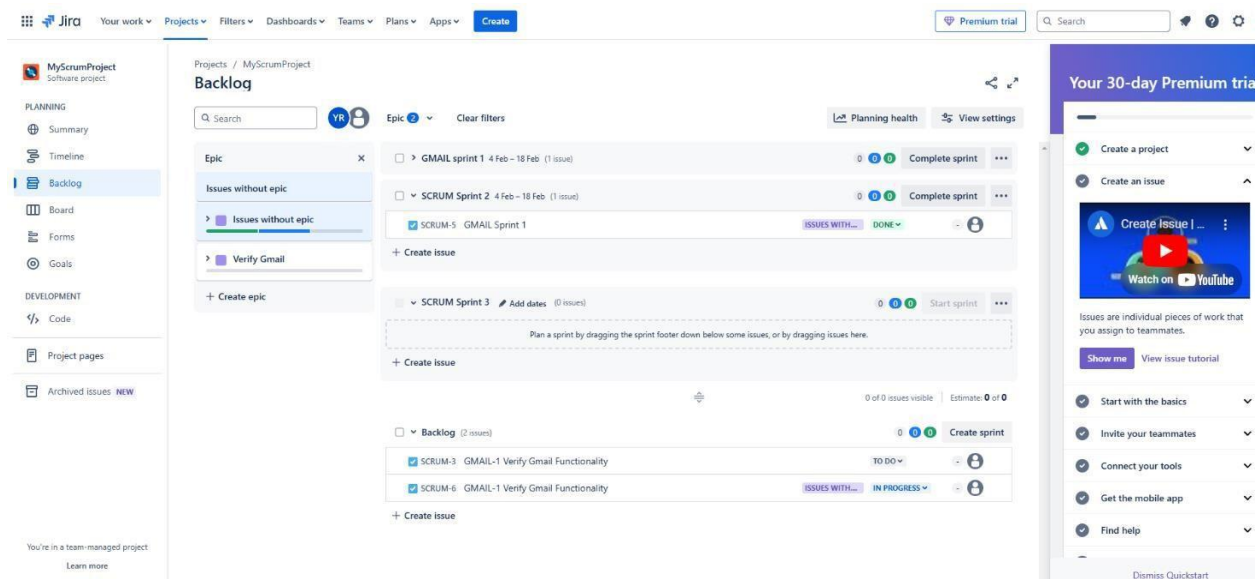
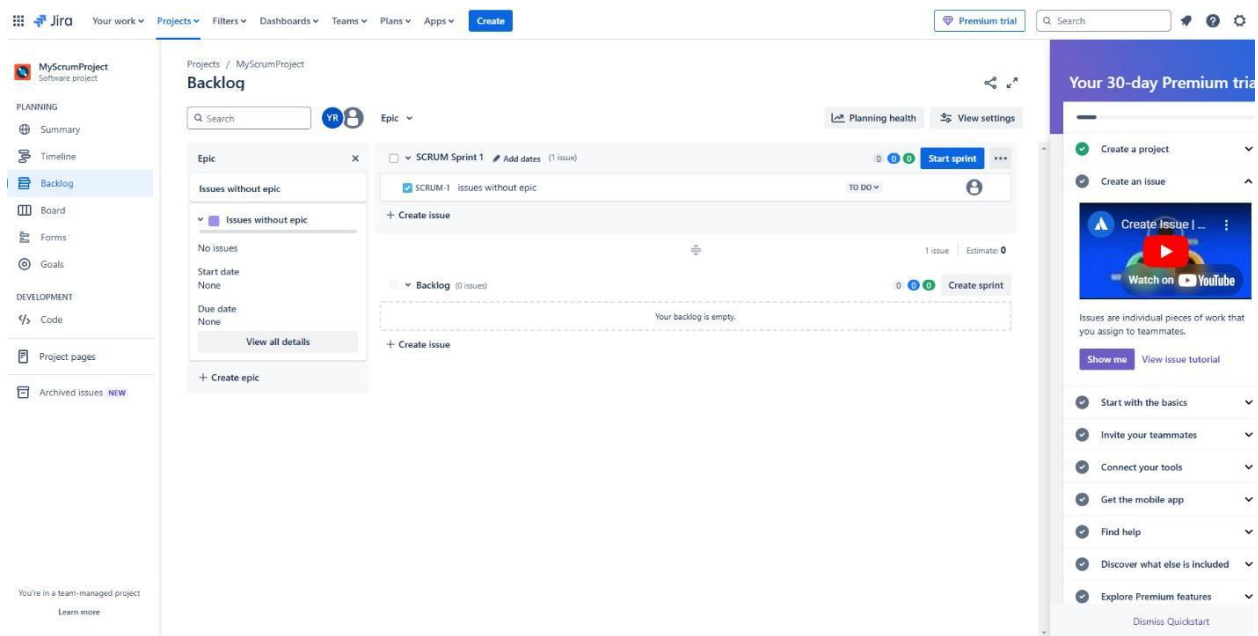
+ Create issue

1 issue Estimate 0

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



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.