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Batch – T12

Roll No. - 42

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:

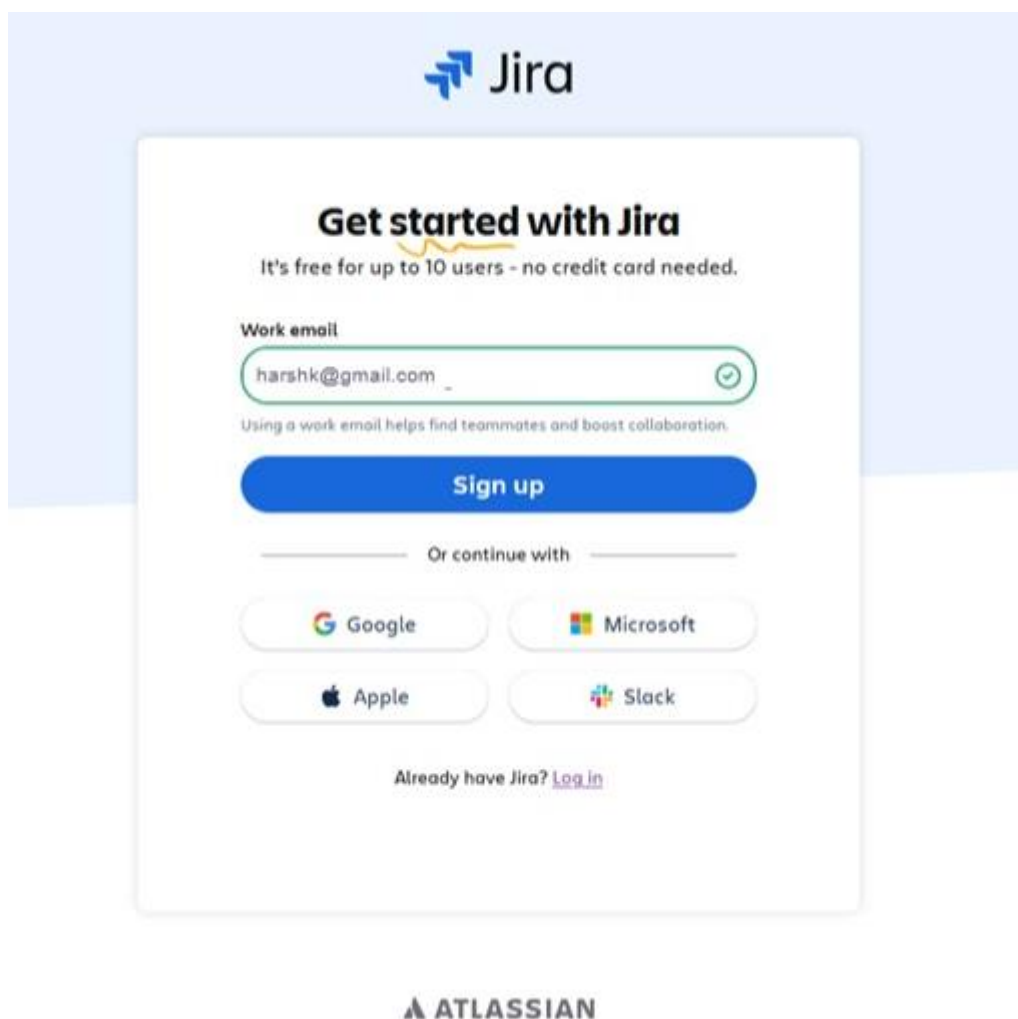
JIRA offers robust reporting and analytics capabilities, allowing teams to gain insights into their project progress, team performance, and other key metrics. Users can create custom dashboards, charts, and reports to monitor and analyze project data.

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 text "harshk@gmail.com" and has a green checkmark icon on the 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 buttons for "Google", "Microsoft", "Apple", and "Slack". At the bottom, the text "Already have Jira?" is followed by a "Log in" link. The Atlassian logo is at the very bottom.

Jira

Get started with Jira

It's free for up to 10 users - no credit card needed.

Work email

harshk@gmail.com

Using a work email helps find teammates and boost collaboration.

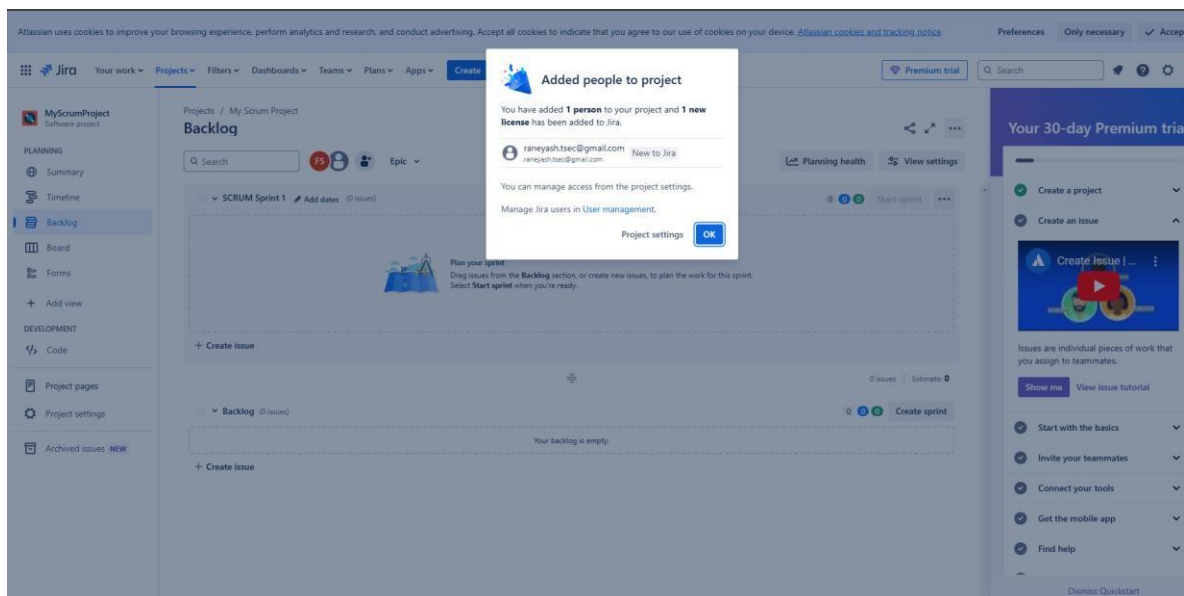
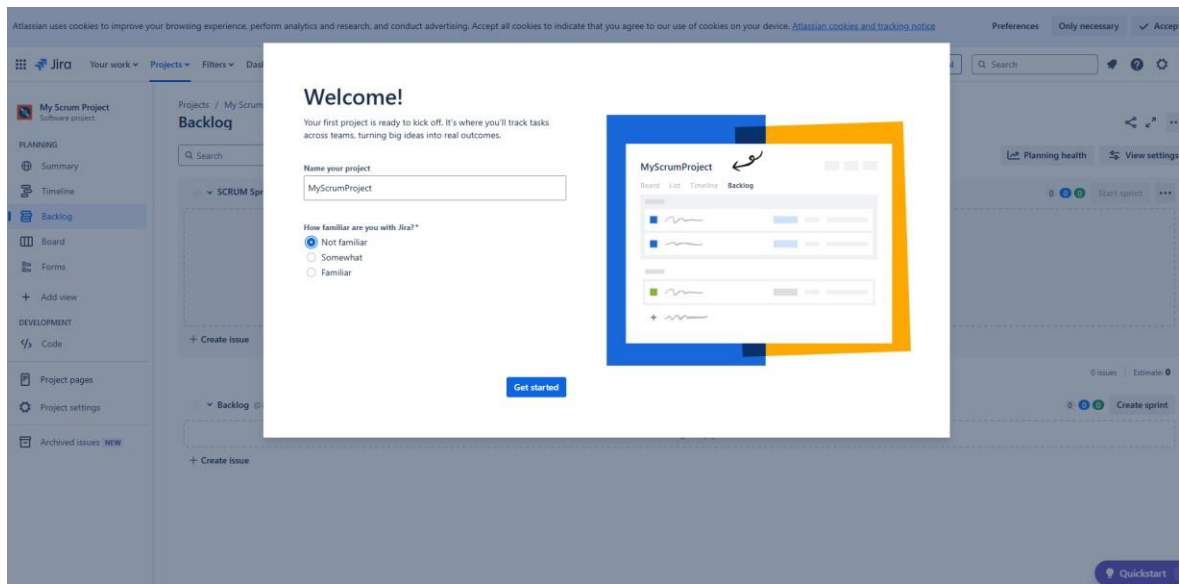
Sign up

Or continue with

Google Microsoft Apple Slack

Already have Jira? [Log in](#)

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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

16

Yash Rane updated the Sprint of [SCRUM-1](#) - issues without epic

2 minutes ago

16

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

1

0.5

0

Types of work

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

Type

Distribution

Task

100%

Epic

Bug

Story

Subtask

MyScrumProject

Software project

PLANNING

Summary

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Forms

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Add view

DEVELOPMENT

Code

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Project settings

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](#)

MyScrumProject

Software project

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Projects / MyScrumProject

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 Kane created SCRUM-3 - Gmail-1 Verify Gmail functionality3 minutes ago

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

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

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

Priority breakdown

Get a holistic view of how work is being 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

Task67%

Epic33%

Bug

Story

Subtask

Your 30-day Premium trial

Create a project

Create an issue

Create Issue I ...

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

Dismiss Quickstart

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Give feedback

Share

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Search timeline

FS

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Sprints

SCRUM-2 - Issues without epic2025/02/042025/02/1815d

SCRUM-8 - Verify Gmail

+ Create Epic

Today

Weeks

Months

Quarters

1

4

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All sprints

9 days

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Complete sprint

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Q Search

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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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+ Add view

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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

MyScrumProject

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You're in a team-managed project

Learn more

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Epic

Planning health

View settings

Epic

X

SCRUM Sprint 1

Add dates

(1 issue)

Start sprint

...

SCRUM-1

issues without epic

TO DO

+ Create issue

1 issue

Estimate 0

Backlog

(0 issues)

Create sprint

Your backlog is empty.

+ Create issue

+ Create epic

Plan and prioritize large chunks of work.

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

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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.

Show me

View issue tutorial

Start with the basics

Invite your teammates

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Q Search

YR

Epic

Planning health

View settings

Epic

X

Issues without epic

No issues

Start date

None

Due date

None

View all details

+ Create epic

SCRUM Sprint 1

Add dates

(1 issue)

Start sprint

...

SCRUM-1

issues without epic

TO DO

+ Create issue

1 issue

Estimate 0

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

Issues are individual pieces of work that you assign to teammates.

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Connect your tools

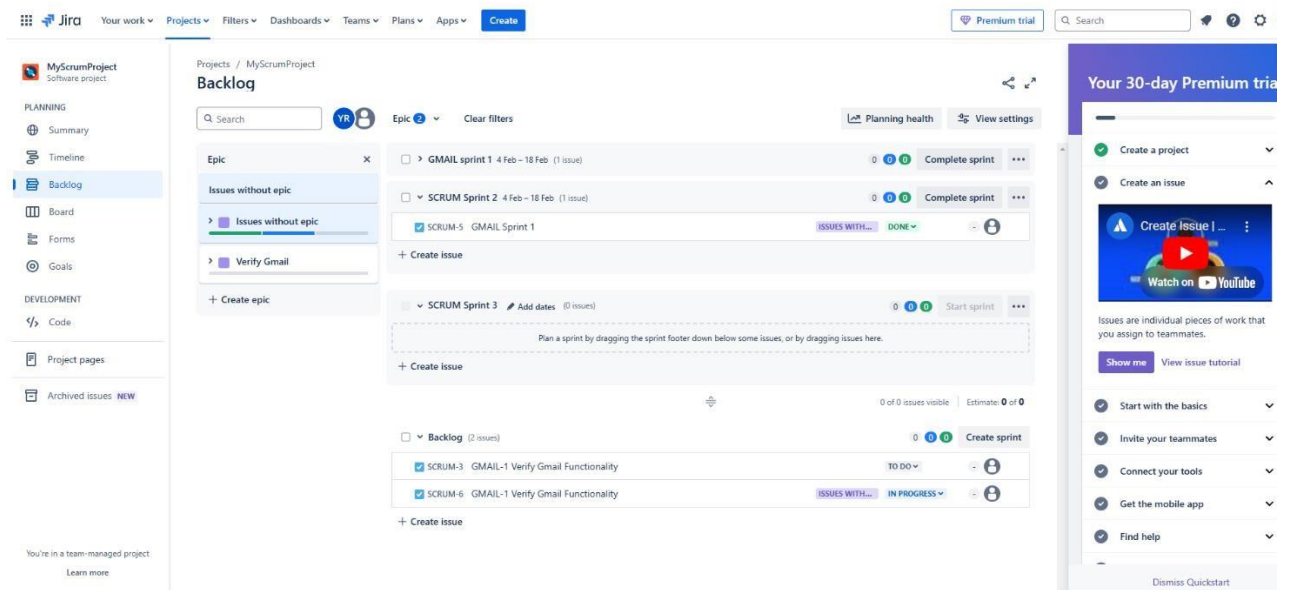
Get the mobile app

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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.