

Name: Vinay Dawani

Roll No: 22

Batch: T11

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:

Atlassian Jira interface showing the "SEP Sprint 1" board. The board is divided into columns: TO DO, IN PROGRESS, and DONE 1. A card titled "backend development" is visible in the DONE 1 column. The left sidebar shows the project structure, including Planning, Development, and Archived issues. The top navigation bar includes options like "Your work", "Projects", "Filters", "Dashboards", "Teams", "Plans", "Apps", and "Create".

Atlassian Jira interface showing the "backend development" issue details. The issue is assigned to Ansh Chughria and is in the "In Progress" state. The details panel on the right shows fields like Assignee, Labels, Parent, Team, Sprint, Story point estimate, Development, Reporter, and Automation. A notification at the bottom left states "Sprint started" with the message "We've filtered the board to show your new sprint. Good luck, team!".

anishchughria49.atlassian.net/jira/software/projects/SEPM/boards/1/backlog

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SEPM_T11 Software project

PLANNING Summary Timeline Backlog Board Forms

DEVELOPMENT Code Project pages Archived issues NEW

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Projects / SEPM_T11 Backlog

Search +2 Epic Type Insights View settings

SEPM Sprint 2 6 Feb - 6 Mar (2 issues) Complete sprint

Verify emails

- SEPM-3 Verify Login functionality VERIFY FUNCTIONALITI... DONE
- SEPM-5 Verify inbox functionality VERIFY FUNCTIONALITI... DONE

+ Create issue

Backlog (5 issues) Create sprint

- SEPM-1 Dashboard UI needs to be changes TO DO
- SEPM-4 Verify compose functionality VERIFY FUNCTIONALITI... TO DO
- SEPM-6 verify draft functionality VERIFY FUNCTIONALITI... TO DO
- SEPM-7 verify sent mail functionality VERIFY FUNCTIONALITI... TO DO
- SEPM-13 verification of login with invalid credentials failed VERIFY FUNCTIONALITI... TO DO

+ Create issue

Quickstart

Air: Moderate Now Search ENG US 1:04 PM 2/13/2025

anishchughria49.atlassian.net/jira/software/projects/SEPM/boards/1/timeline?selectedIssue=SEPM-4

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SEPM_T11 Software project

PLANNING Summary Timeline Backlog Board Forms

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Projects / SEPM_T11 Timeline

Search timeline VD AC KC M Status category Epic Type Give feedback Share Export View settings

Sprints

- SEPM-2 Verify functionalities
- SEPM-3 Verify Login functional... DONE
- SEPM-5 Verify inbox function... DONE
- SEPM-6 Verify compose funct... DONE
- SEPM-7 verify draft functiona... DONE
- SEPM-13 verification of login with... DONE
- SEPM-14 security check
- SEPM-15 module check
- SEPM-16 Add Responsive DONE
- SEPM-17 check responsiveness... DONE

+ Create Epic

SEPM-2 / SEPM-4 Verify compose functionality

+ Add

Done Done Actions Improve issue

Description Add a description...

Confluence content

Product requirements REQUEST TO TRY

Pinned fields Click on the next to a field label to start pinning.

Details

Assignee Vinay Dawani

Labels None

Today Weeks Months Quarters

Top Stories View Bill Tabled...

ENG US 1:01 PM 2/13/2025

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Projects / SEPM_T11

Timeline

Search timeline VO AC KC M Status category Epic Type View settings

Sprints

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- SEPM-13 verification of login with... DONE
- SEPM-14 security check
- SEPM-15 module check
- SEPM-16 Add Responsive DONE
- SEPM-17 check responsive... DONE

+ Create Epic

SEPM Sprint 1, SEPM Sprint 2

Today Weeks Months Quarters 1

SEPM-15 module check

+ Add

To Do Actions Improve issue

Description Add a description...

Confluence content Project plan REQUEST TO TRY

Pinned fields Click on the next to a field label to start pinning.

Details Assignee Krish Chatwani Assign to me

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DEVELOPMENT Code Project pages Archived issues NEW

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Projects / SEPM_T11

Timeline

Search timeline VO AC KC M Status category Epic Type View settings

Sprints

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- SEPM-14 security check
- SEPM-15 module check
- SEPM-16 Add Responsive DONE
- SEPM-17 check responsive... DONE

+ Create Epic

SEPM Sprint 1, SEPM Sprint 2

Today Weeks Months Quarters 1 Quickstart

SEP-11 Sprint 2 - SEP-11 Project

anishchughria49@atlassian.net/jira/software/projects/SEP-11/boards/1

Jira Your work Projects Filters Dashboards Teams Plans Apps Create Premium trial Search

SEP-11 Software project

PLANNING Summary Timeline Backlog Board Forms Add view

DEVELOPMENT Code Project pages Project settings Archived issues NEW

Projects / SEP-11

SEP-11 Sprint 2

Verify emails

14 days 100% Complete sprint

GROUP BY None Insights View settings

TO DO

+ Create issue

IN PROGRESS

DONE 2

- Verify Login functionality
VERIFY FUNCTIONALITIES
SEP-3
- Verify inbox functionality
VERIFY FUNCTIONALITIES
SEP-5

Quickstart

SEP-11 Software project

PLANNING Summary Timeline Backlog Board Forms Add view

DEVELOPMENT Code Project pages Project settings Archived issues NEW

Projects / SEP-11

Summary

10 completed in the last 7 days

17 updated in the last 7 days

0 due soon in the next 7 days

0 overdue in the last 7 days

Status overview

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

17 Total issues

To Do 7 In Progress 0 Done 10

Recent activity

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

Today

- Anish Chughria changed the status to Done on SEP-14 - security check with a resolution of 'Done' less than a minute ago
- Anish Chughria changed the status to In Progress on SEP-14 - security check less than a minute ago
- Anish Chughria changed the status to Done on SEP-15 - module check with a resolution of 'Done' less than a minute 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

- Subtask 71%
- Epic 14%
- Task 14%
- Bug
- Story

Quickstart

Projects / SEPM_T11
Timeline

Q Search timeline

AC KC M VD

Status category Epic Type

Give feedback Share Export View settings

Sprints

- SEPM-2 Verify functionalities
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+ Create Epic

Today Weeks Months Quarters Quickstart

Projects / SEPM_T11
Timeline

Q Search timeline

AC KC M VD

Status category Epic Type

Give feedback Share Export View settings

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- SEPM-14 security check DONE
- SEPM-15 module check DONE
- SEPM-16 Add Responsive DONE
- SEPM-17 check responsiveness... DONE

+ Create Epic

Today Weeks Months Quarters

SEPM-16 Add Responsive

+ Add Apps

Done Done Actions Improve issue

Description

Add a description...

Child issues

Order by Suggest child issues

SEPM-17 check responsiveness for all possible d... DONE

Confluence content

Project plan TRY TEMPLATE

Details

Assignee Ansh Chughria

Labels None

Parent None

Team None

The top screenshot displays the Jira 'Timeline' view for the 'SEPM_T11' project. The interface includes a sidebar with navigation options like Summary, Timeline, Backlog, Board, Forms, and Add view. The main area shows a Gantt chart with sprints 'SEPM Sprint 1' and 'SEPM Sprint 2'. Tasks are listed on the left, including 'SEPM-2 Verify functionalities', 'SEPM-3 Verify Login functionality...', 'SEPM-4 Verify inbox function...', 'SEPM-5 Verify compose function...', 'SEPM-6 verify draft function...', 'SEPM-7 verify sent mail function...', 'SEPM-13 verification of login with...', 'SEPM-14 security check', 'SEPM-15 module check', 'SEPM-16 Add Responsive', and 'SEPM-17 check responsiveness for all possible devices'. The right sidebar shows details for 'SEPM-17', including assignee 'Ansh Chughria' and parent 'SEPM-16 Add Responsive'.

The bottom screenshot shows the 'Verify Login functionality' issue page. The sidebar is similar to the top view. The main area displays the issue description, child issues (SEPM-8 analyze story, SEPM-9 prepare test case, SEPM-10 execute test case, SEPM-11 analyze result, SEPM-12 bug tracking), and activity. The right sidebar shows details for 'SEPM-2 Verify functionalities', including assignee 'Unassigned', parent 'SEPM-2 Verify functionalities', and sprint 'SEPM Sprint 2'.

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.