

EXPERIMENT NO : 07

Aim: Create Scrum Board for Scrum Master using JIRA Tool.

Theory:

Introduction to Agile Methodology

Agile methodology is an iterative approach to software development that focuses on flexibility, collaboration, and customer feedback. It follows principles from the Agile Manifesto, emphasizing working software, customer collaboration, and responsiveness to change. Agile methodologies include Scrum, Kanban, and Extreme Programming (XP).

Test Case Management in Agile

Test case management in Agile ensures that testing is integrated throughout the development process rather than being a separate phase. JIRA, a widely used project management tool, supports test case management through plugins like Zephyr and Xray. Key aspects include:

- **Creating Test Cases:** Test cases are written in JIRA to verify software functionality.
- **Executing Tests:** Test execution is tracked within sprints to ensure quality assurance.
- **Defect Tracking:** Bugs and defects are logged and linked to user stories.
- **Continuous Integration:** Automated tests can be integrated with JIRA for real-time tracking.

Creating a Scrum Board in JIRA

A Scrum Board in JIRA helps Scrum Masters manage sprint tasks efficiently. The process includes:

1. **Creating a New Scrum Project:** JIRA provides templates for Agile projects.
2. **Defining Backlog Items:** Product backlog items (PBIs) or user stories are added.
3. **Sprint Planning:** Tasks are assigned to sprints, ensuring proper workload distribution.
4. **Tracking Progress:** The board visually represents tasks in "To Do," "In Progress," and "Done" columns.
5. **Sprint Review & Retrospective:** After each sprint, progress is reviewed, and

improvements are discussed.

By utilizing JIRA for Agile project management, teams improve efficiency, collaboration, and project transparency.

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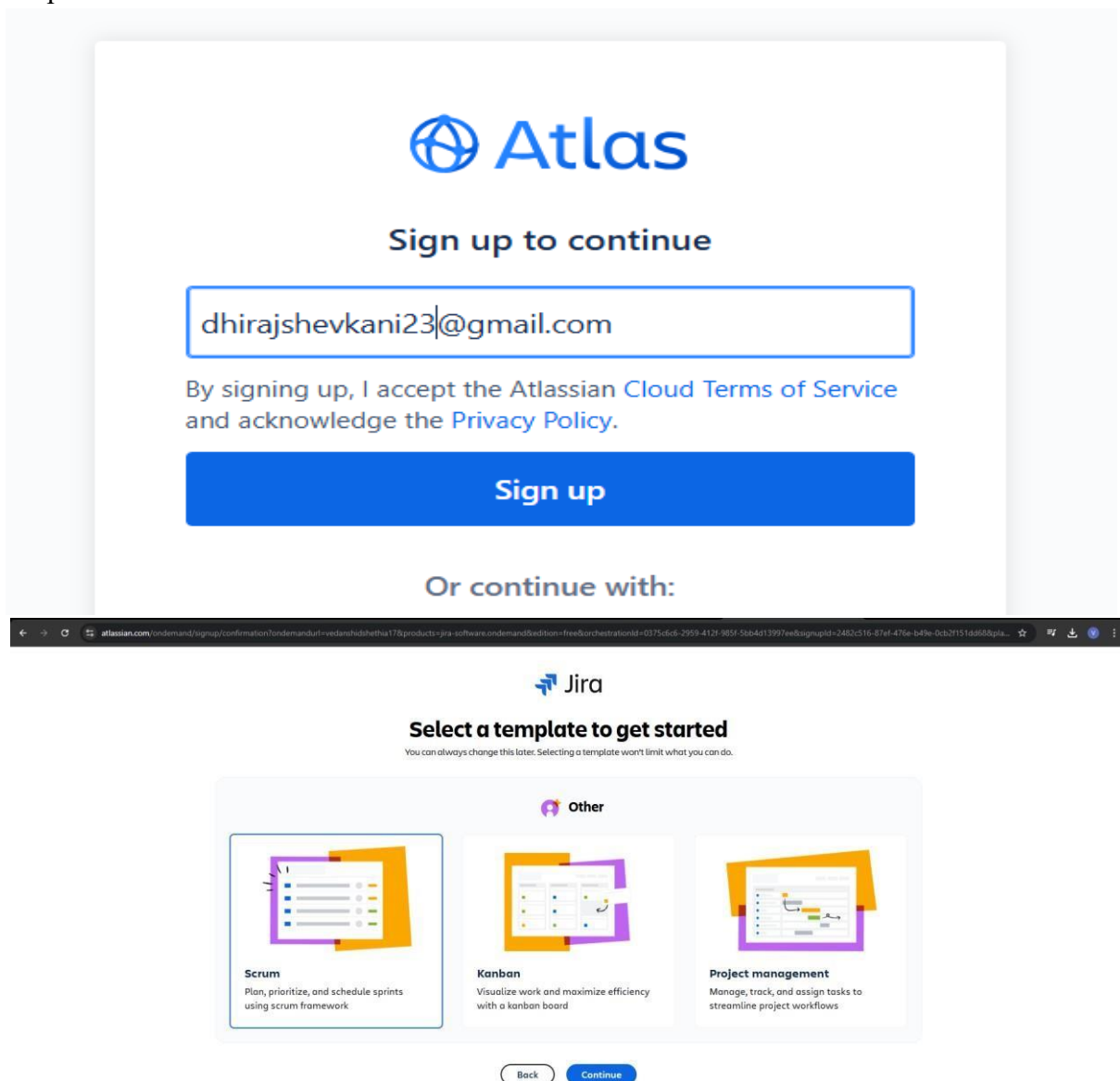
Software Engineering & Project Management Lab Experiment No: - 06 & 07 Aim:
To Study Agile Methodology and Test case Management using JIRA Tool & To
Create Scrum Board for Scrum Master using JIRA Tool.

Implementation:

JIRA Account Creation:

1. Open atlassian.com webpage
2. Select products and click on Jira Software
3. Click on “Get it free”
4. Select Continue with Google

Output:



The screenshot displays the Jira account creation process. The top section shows the 'Atlas' sign-up page with the email 'dhirajshevkani23@gmail.com' entered and a 'Sign up' button. The bottom section shows the 'Select a template to get started' screen with three options: Scrum, Kanban, and Project management. The 'Scrum' option is selected.

Atlas

Sign up to continue

dhirajshevkani23@gmail.com

By signing up, I accept the Atlassian Cloud Terms of Service and acknowledge the Privacy Policy.

Sign up

Or continue with:

Jira

Select a template to get started

You can always change this later. Selecting a template won't limit what you can do.

Other

Scrum
Plan, prioritize, and schedule sprints using scrum framework

Kanban
Visualize work and maximize efficiency with a kanban board

Project management
Manage, track, and assign tasks to streamline project workflows

Back Continue

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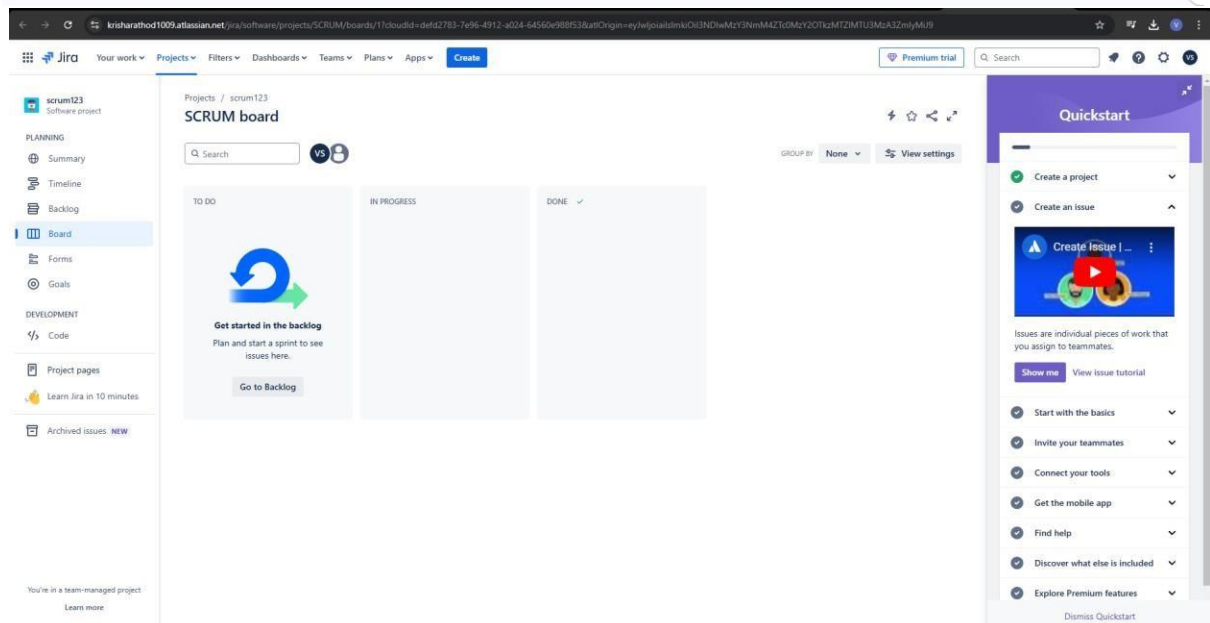
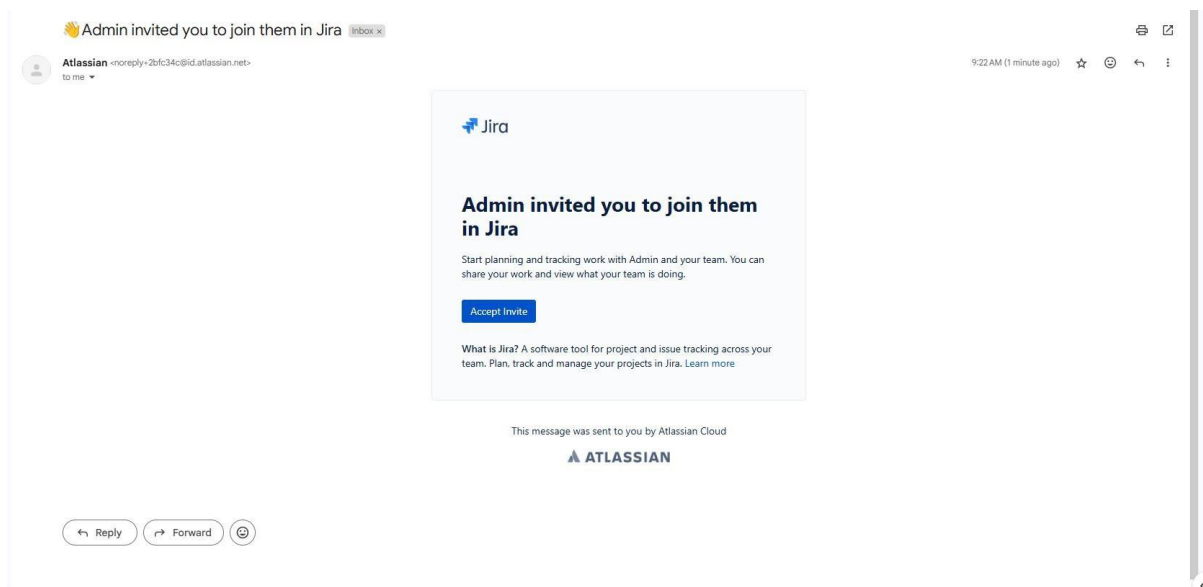
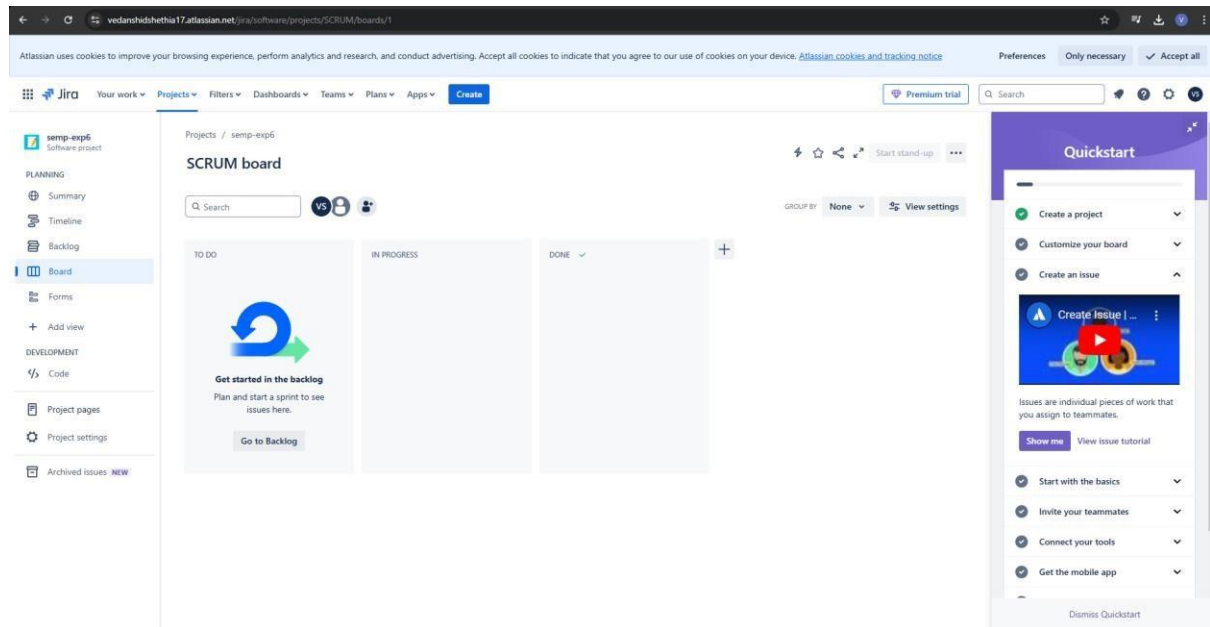
The image displays three sequential screenshots of the Jira web interface, illustrating the initial setup and configuration of a new project.

Top Screenshot: Welcome to Jira
This screenshot shows the Jira 'Welcome!' dialog box. It prompts the user to name their project (e.g., 'semp-exp6') and select how familiar they are with Jira (Not familiar, Somewhat, or Familiar). A 'Get started' button is visible. In the background, the 'Backlog' view for the 'My Scrum Project' is visible, showing a 'SCRUM Sprint 1' and a 'Backlog' section.

Middle Screenshot: Backlog Management
This screenshot shows the 'Backlog' view for the 'semp-exp6' project. The 'SCRUM Sprint 1' section is active, displaying a 'Plan your sprint' instruction. Below it, the 'Backlog' section is empty, with a 'Your backlog is empty' message. A 'Quickstart' sidebar on the right provides a list of actions: 'Create a project', 'Create an issue', 'Start with the basics', 'Invite your teammates', 'Connect your tools', 'Get the mobile app', and 'Find help'.

Bottom Screenshot: Added people to project
This screenshot shows the 'SCRUM board' view for the 'semp-exp6' project. A modal dialog titled 'Added people to project' is displayed, indicating that 1 person has been added to the project and 1 new license has been added to Jira. The user 'krisharathod1009@gmail.com' is listed as 'New to Jira'. The dialog also provides instructions on how to manage access from the project settings and a 'Project settings' button.

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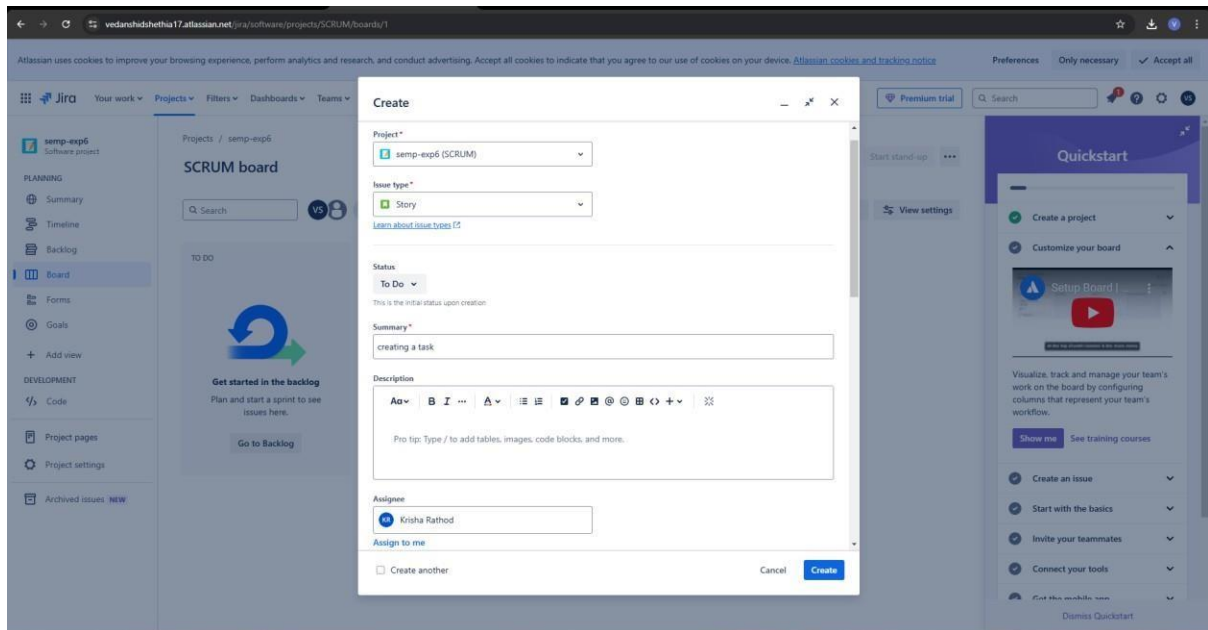


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This screenshot shows the Jira interface for a project named 'scrum123'. The main view is the 'Timeline' board, which displays a calendar-like view of sprints. A sprint titled 'SCRUM-1 check the typo' is highlighted in blue and marked as 'DONE'. To the right of the timeline, a sidebar shows the details of the selected issue, 'SCRUM-1'. The issue details include a description, a project plan, pinned fields, and details such as the assignee (Vedanshi Shethia) and the reporter (Krisha Rathod). On the far right, a 'Quickstart' panel provides a list of tasks to help new users get started with Jira, including 'Create a project', 'Map out your project goals', 'Identify small chunks of work', 'Monitor and manage risk', 'Create an issue', 'Start with the basics', and 'Invite your teammates'.

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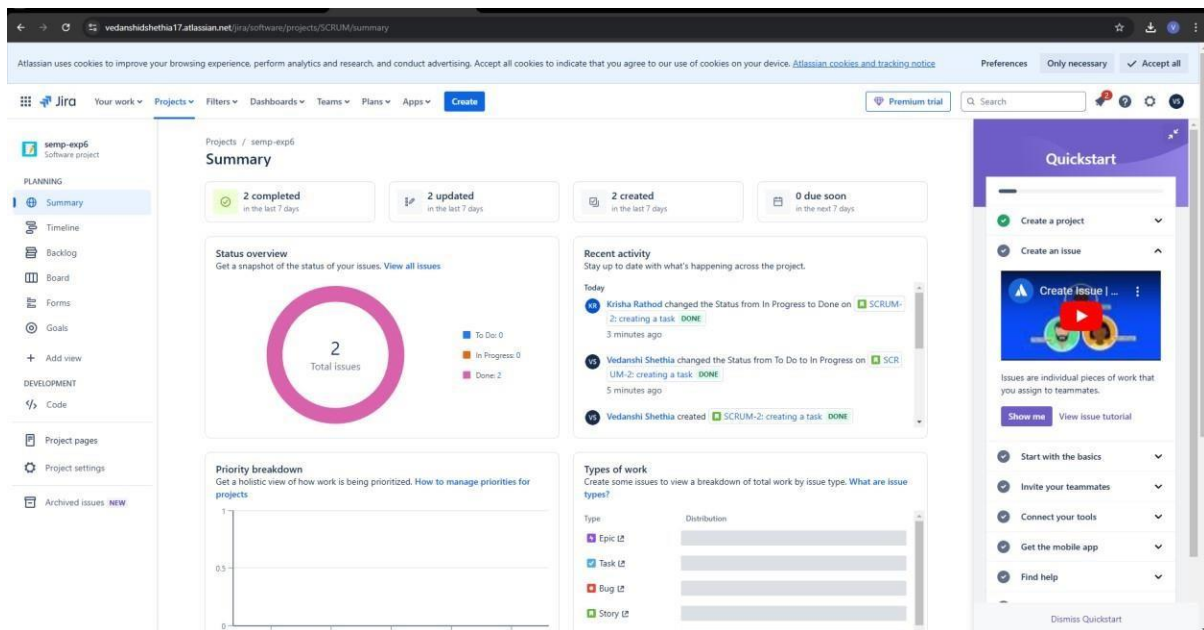


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This screenshot shows the Jira Backlog for project 'semp-exp6'. The interface includes a left sidebar with navigation options like Summary, Timeline, Backlog, Board, Forms, Goals, Code, Project pages, and Archived issues. The main area displays the 'Backlog' section with a search bar and a 'Start sprint' button. A 'SCRUM Sprint 1' is active, showing a 'Plan your sprint' instruction. Below the sprint, there is a 'Backlog (1 issue)' section with one issue titled 'SCRUM-2 creating a task'. A right sidebar shows 'creating a task' details, including a description, pinned fields, and an assignee 'Krishna Rathod'.

This screenshot shows the Jira Summary view for project 'scrum123'. The interface includes a left sidebar with navigation options like Summary, Timeline, Backlog, Board, Forms, Goals, Code, Project pages, and Archived issues. The main area displays the 'Summary' section with a search bar and a 'Create' button. A 'Status overview' section shows a donut chart with 2 total issues, 0 To Do, 0 In Progress, and 2 Done. A 'Recent activity' section shows a list of recent changes. A 'Priority breakdown' section shows a bar chart. A 'Types of work' section shows a table with issue types and their distribution. A right sidebar shows a 'Quickstart' guide with steps like 'Create a project', 'Create an issue', 'Start with the basics', 'Invite your teammates', 'Connect your tools', 'Get the mobile app', and 'Find help'.

Vedanshi Shethia
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Conclusion

Jira is a powerful, flexible, and highly customizable project management tool that has become the go-to solution for Agile teams, particularly in software development. With its support for Scrum, Kanban, and other methodologies, Jira enables teams to organize, prioritize, and track work efficiently. Through its rich set of features, customizable workflows, and seamless integrations with other tools, Jira helps teams improve collaboration, streamline processes, and deliver high-quality projects on time.