

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.

Vinit Phulwani

T23-132

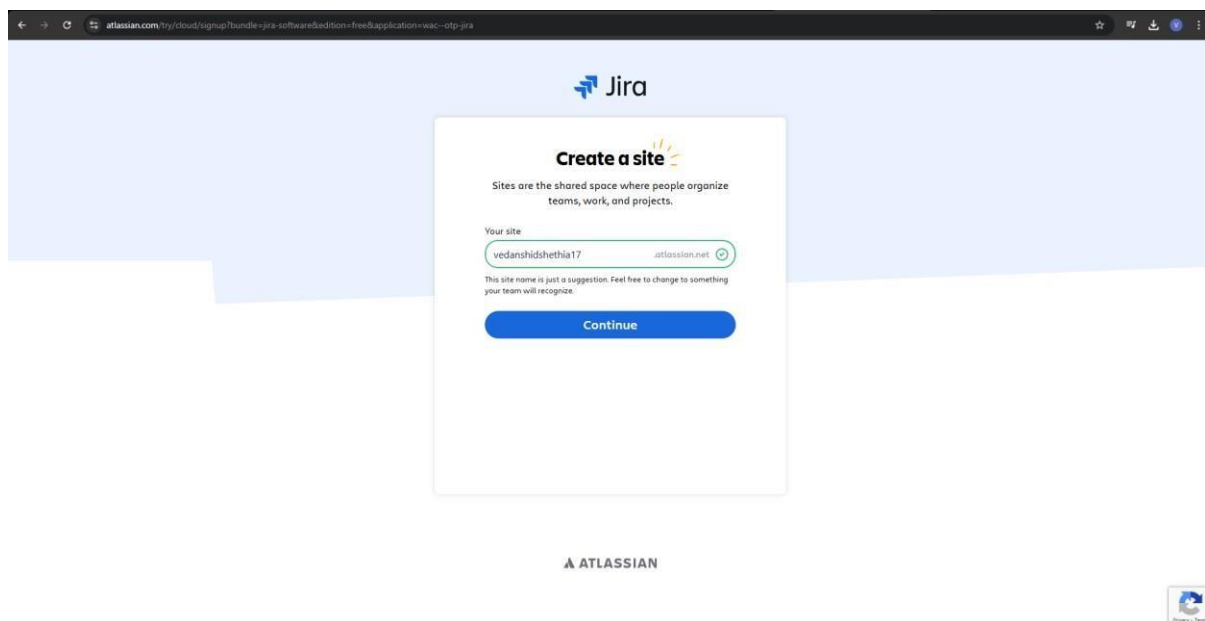
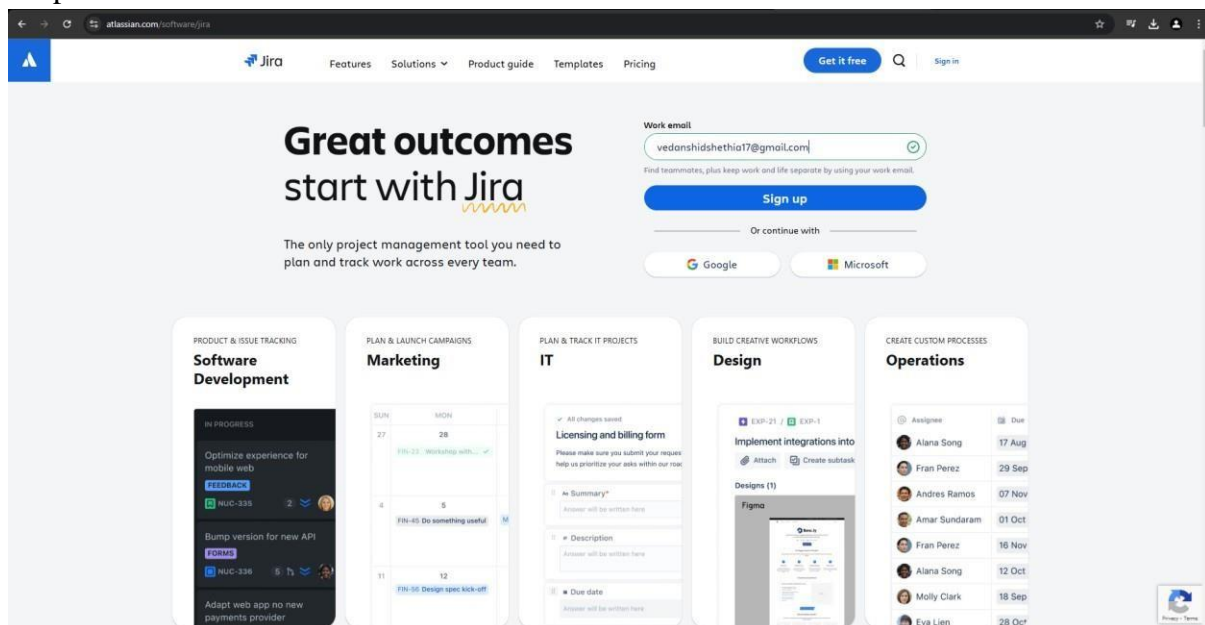
Software Engineering & Project Management Lab Experiment No: - 06 & 07 Aim:
To Study Agile Methodology and Test case Management using JIRA Tool & To
Create Scrum Board for Scrum Master using JIRA Tool.

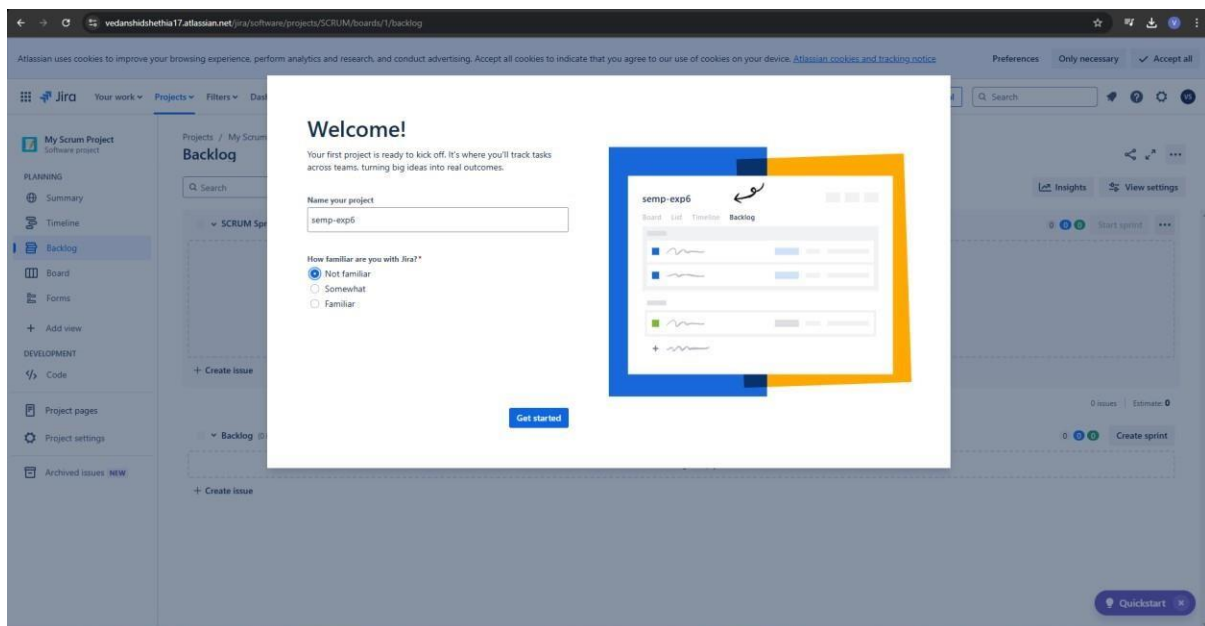
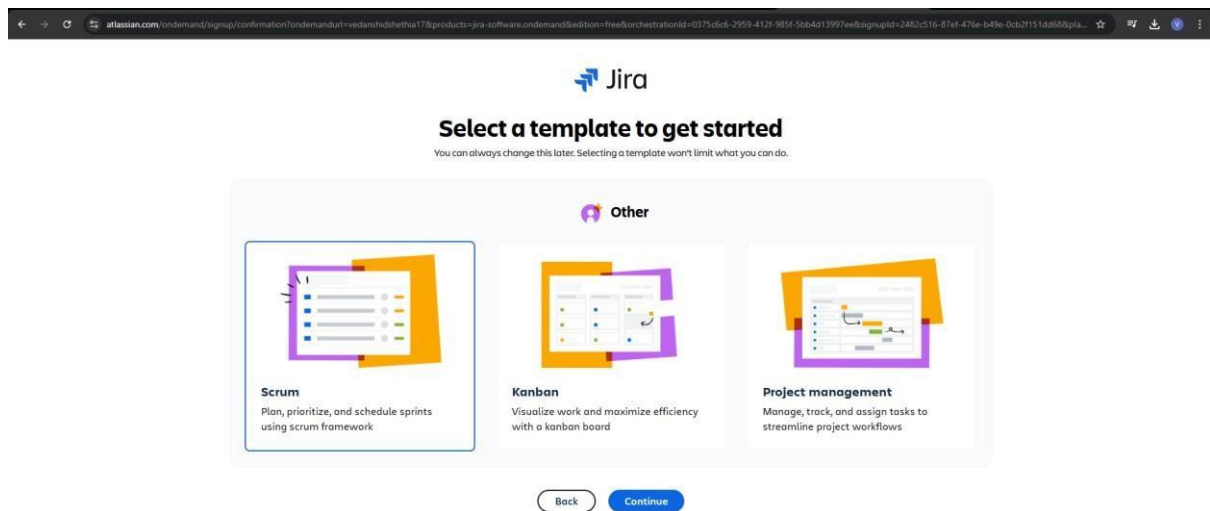
Implementation:

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

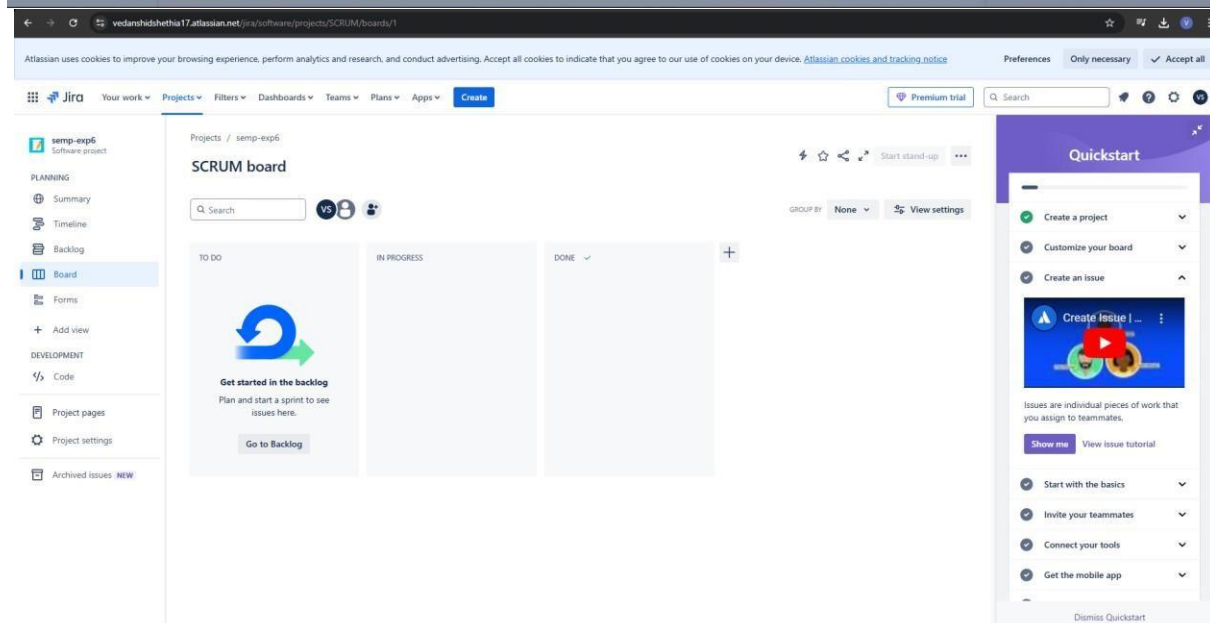
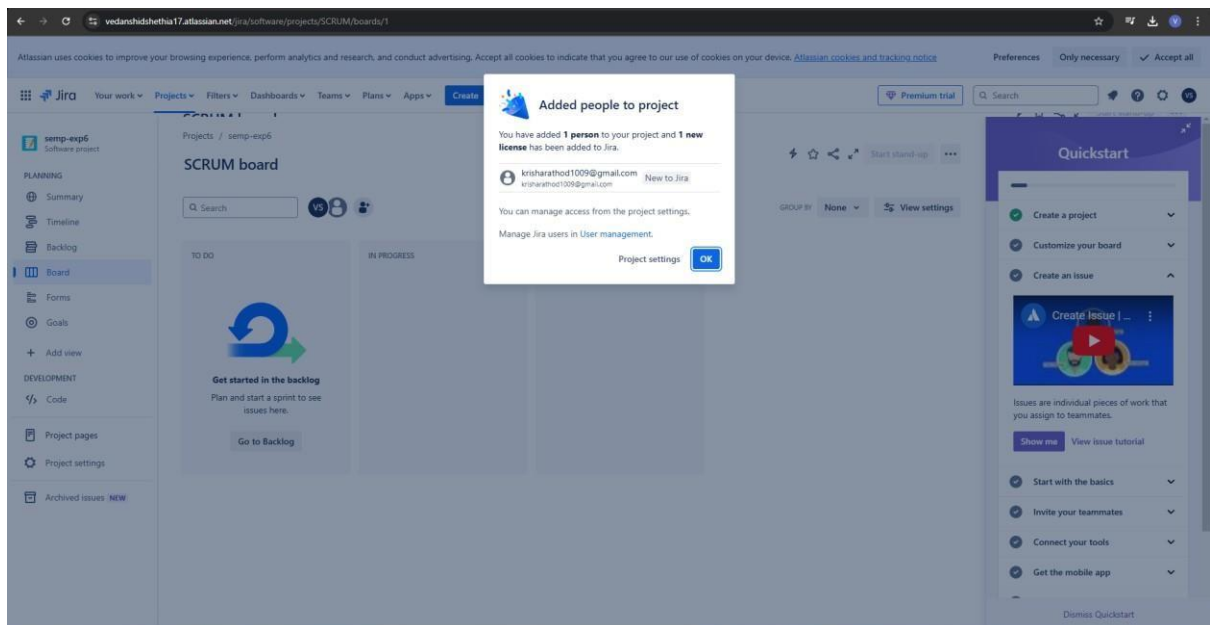
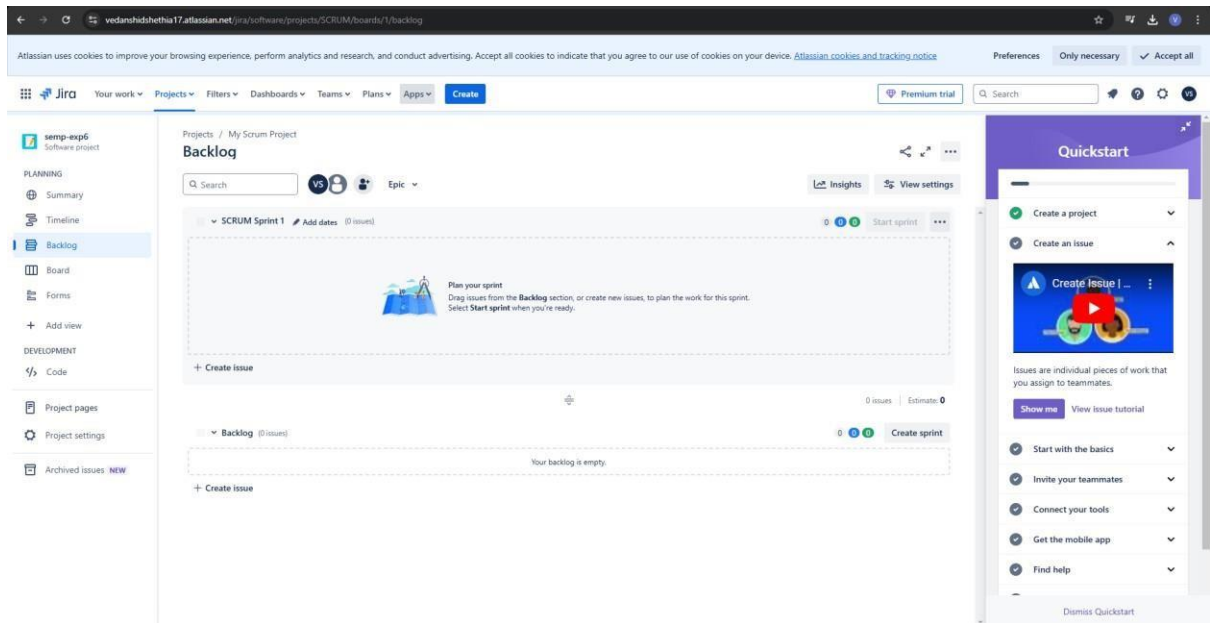
Output:



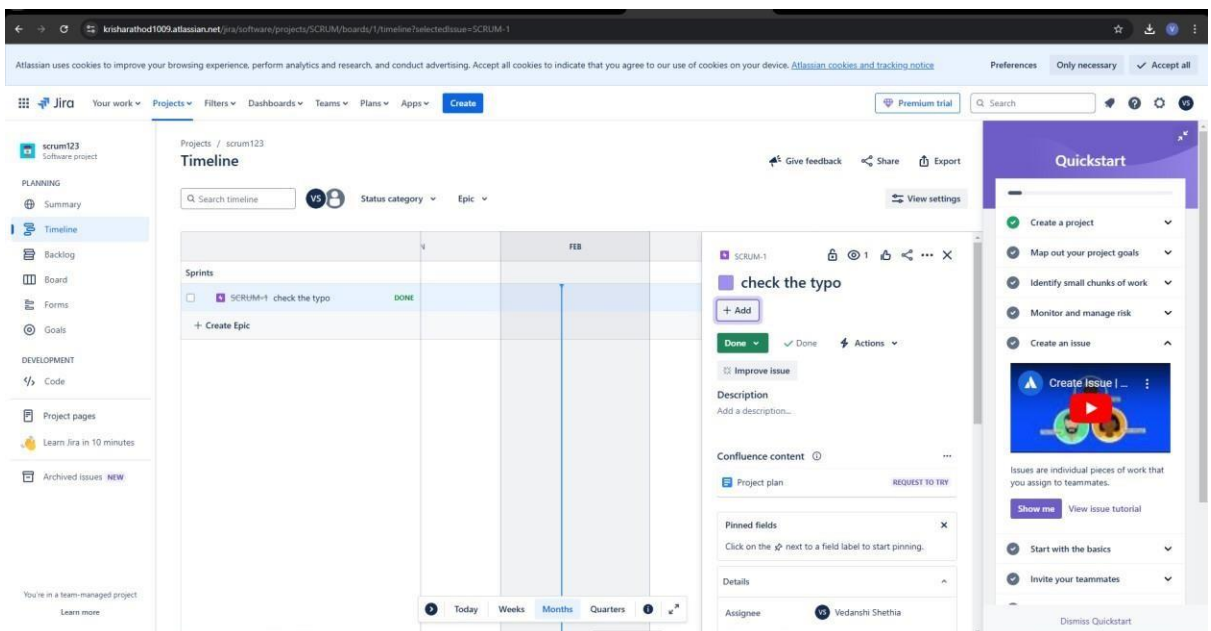
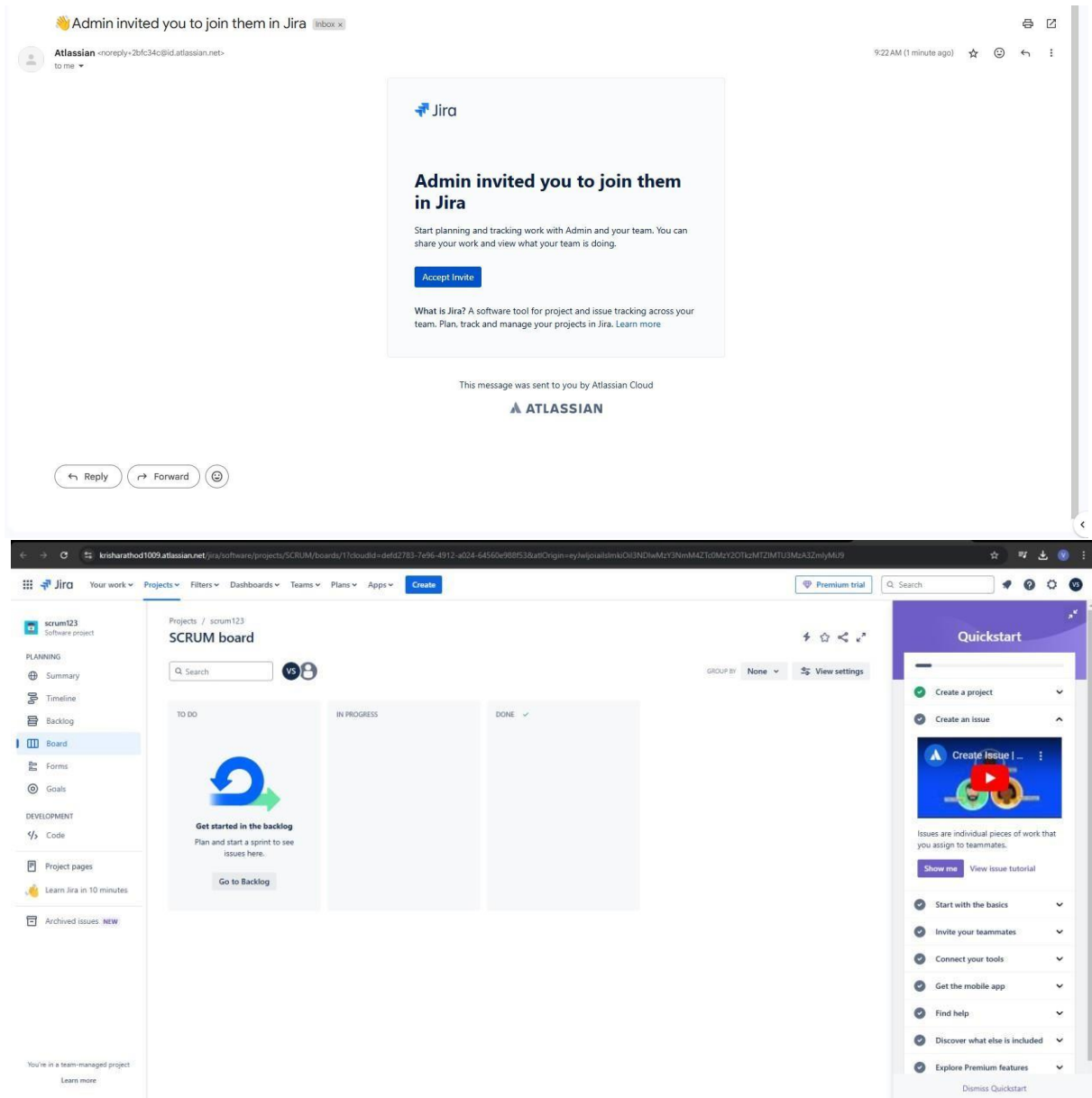


Vinit Phulwani

T23-132

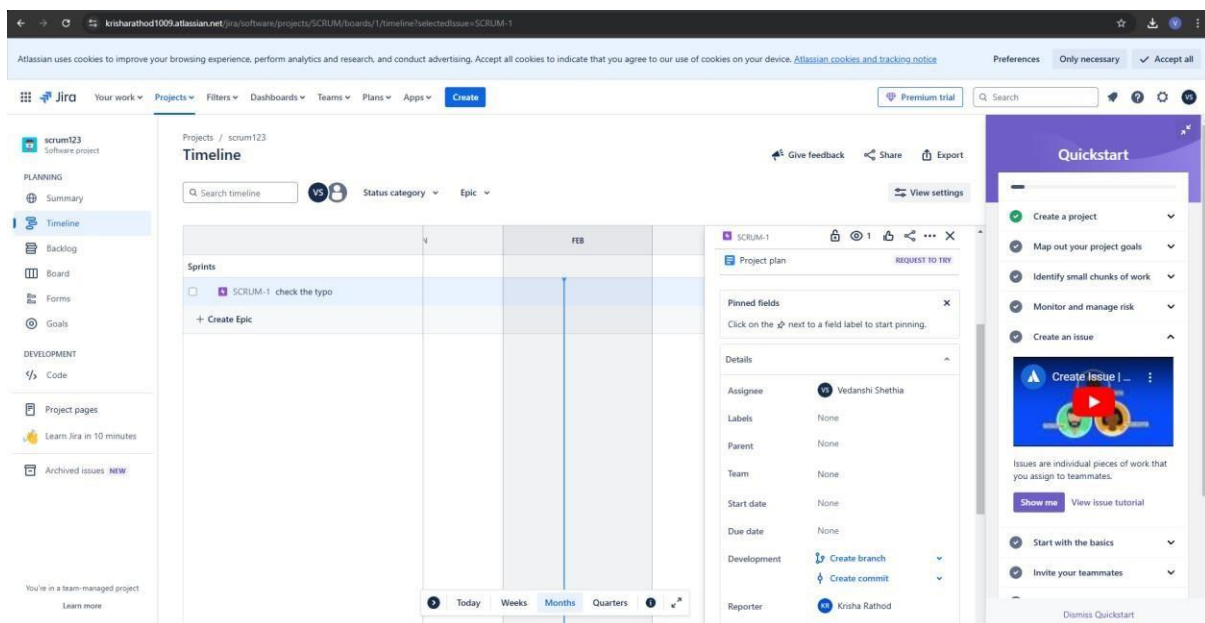
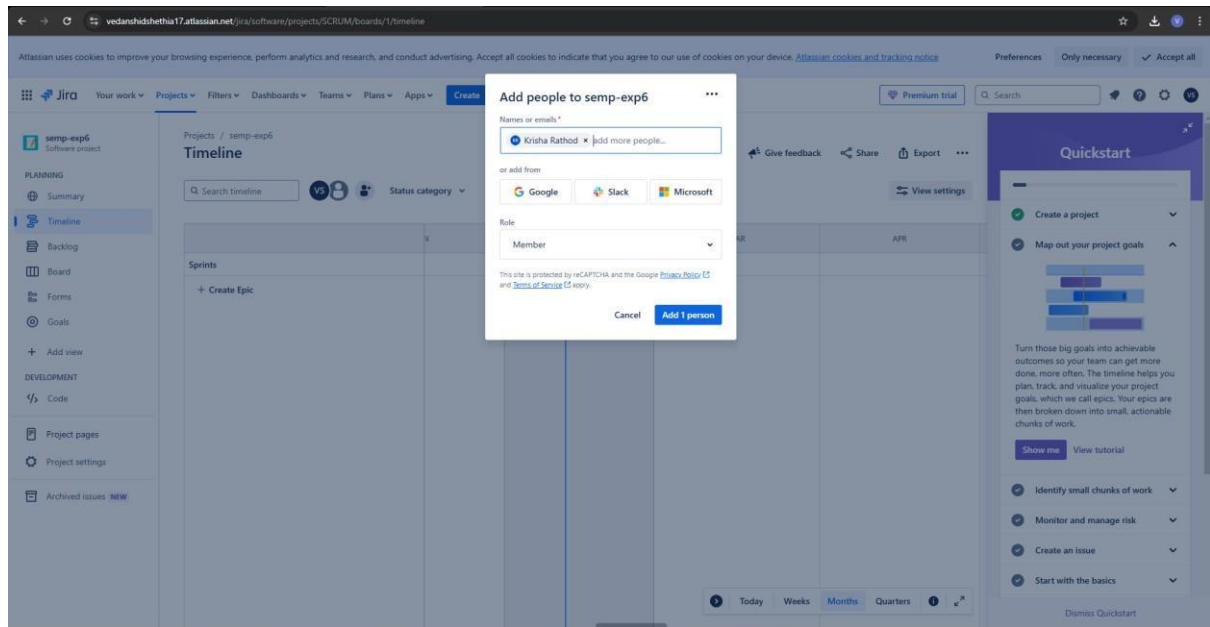


T23-132



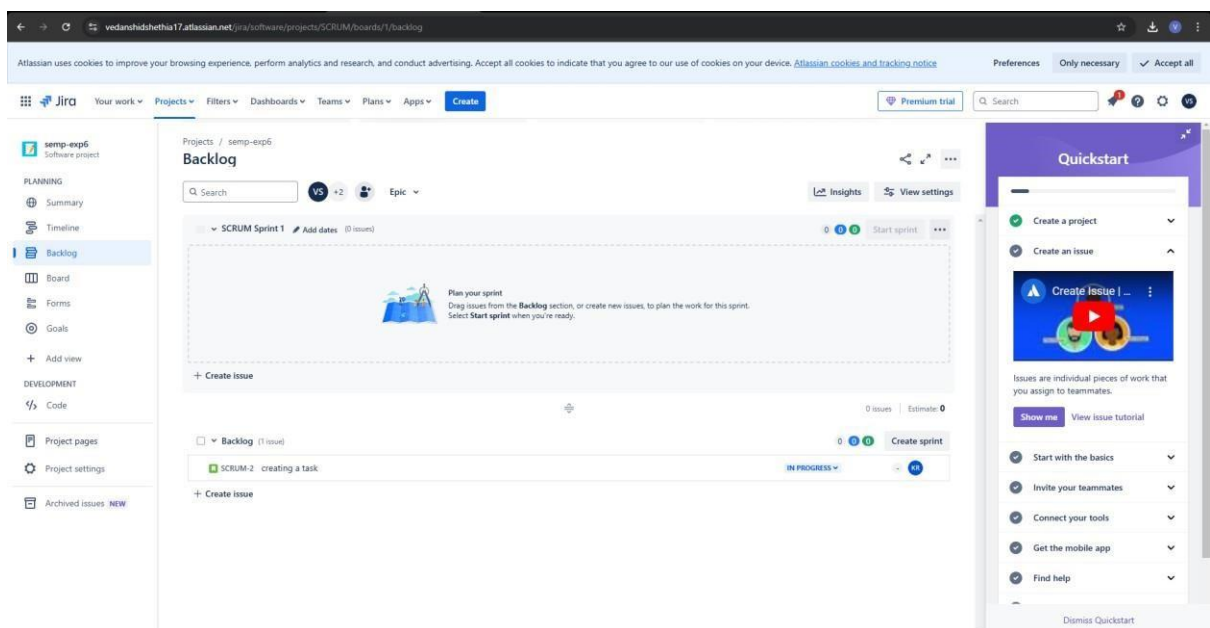
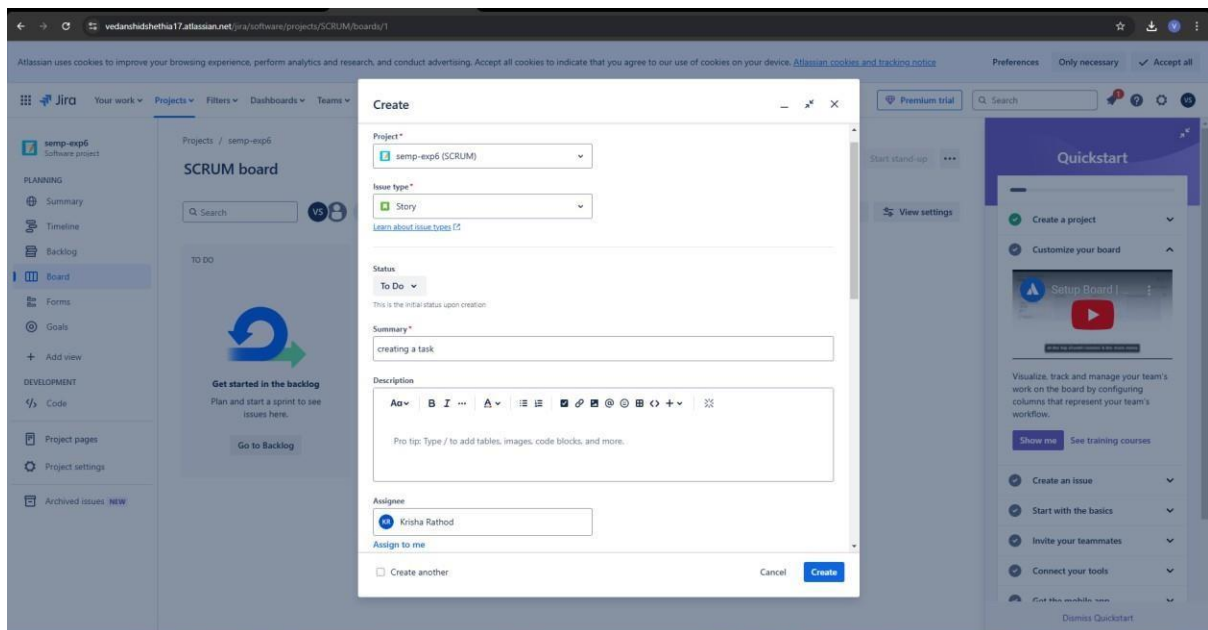
Vinit Phulwani

T23-132



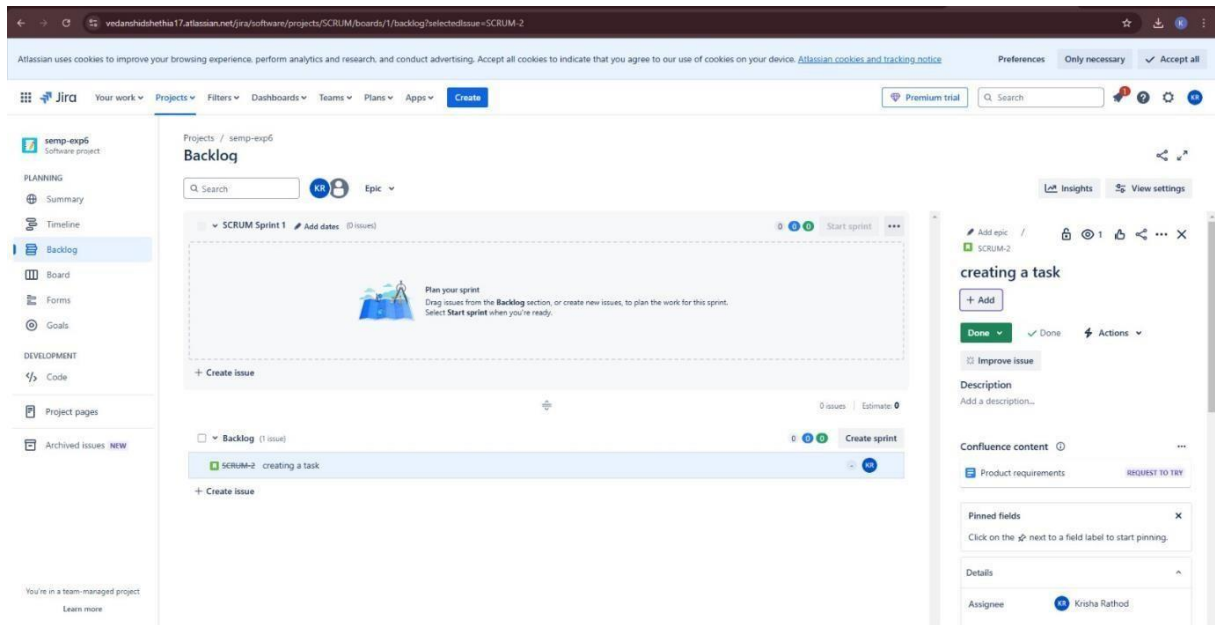
Vinit Phulwani

T23-132

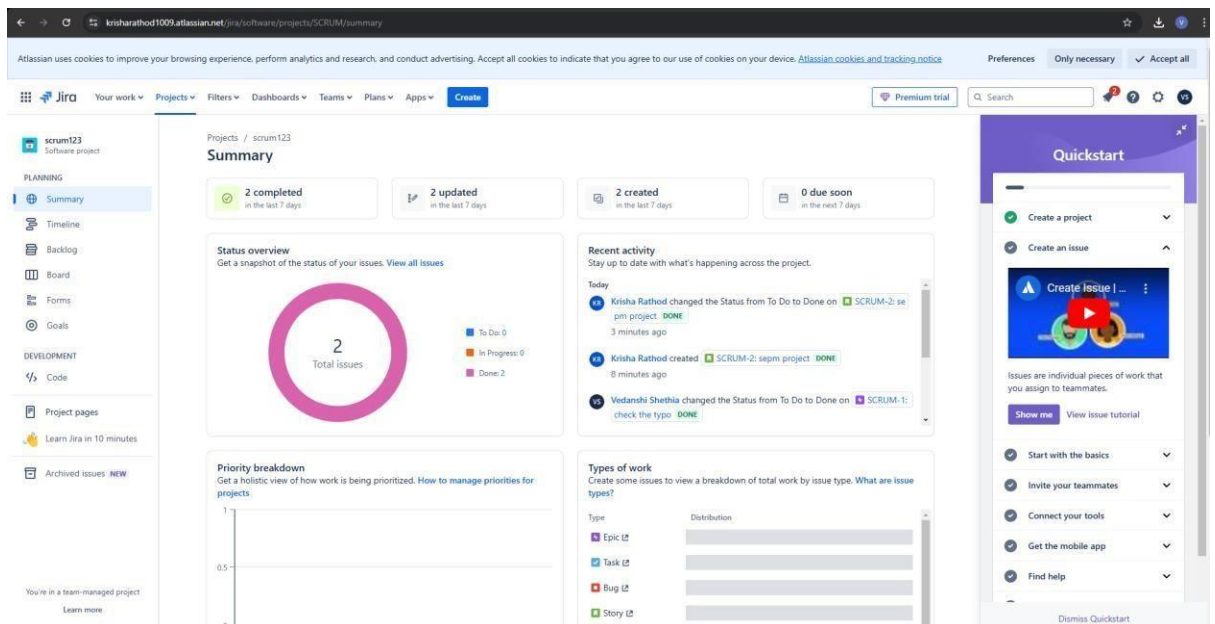


Vinit Phulwani

T23-132

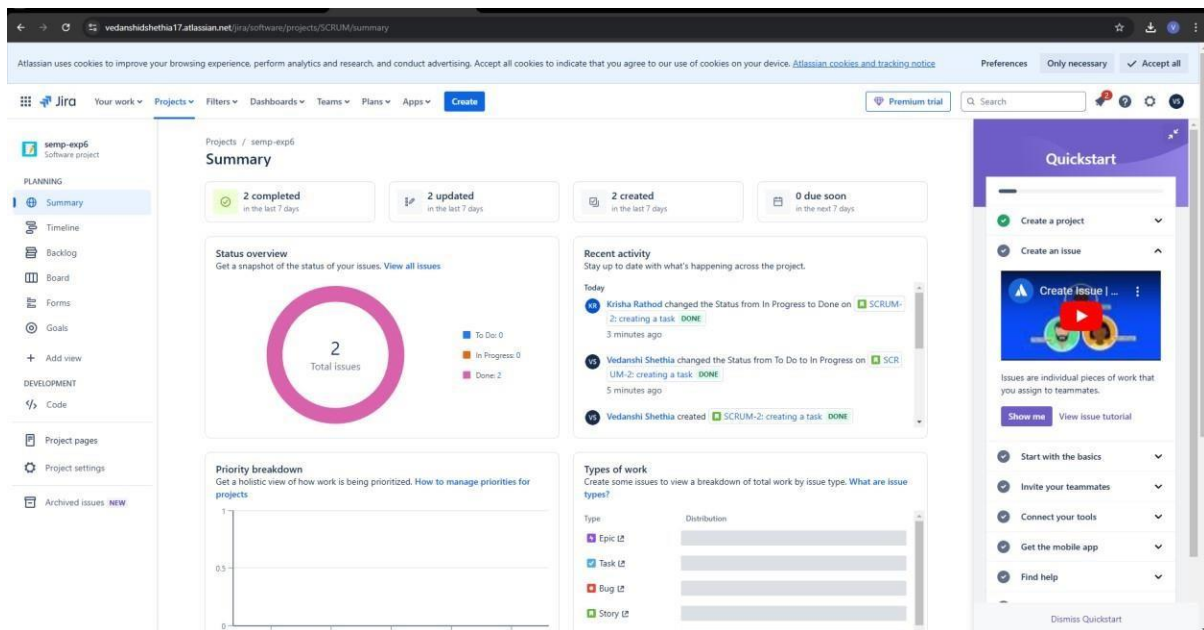


This screenshot shows the Jira Backlog for project 'temp-exp6'. The interface includes a left sidebar with navigation options like Planning, Summary, Timeline, Backlog, Board, Forms, Goals, Development, Code, Project pages, and Archived issues. The main area displays the 'SCRUM Sprint 1' backlog with a search bar, filters, and a 'Create issue' button. A task titled 'SCRUM-2 creating a task' is visible. The right sidebar shows a 'creating a task' form with fields for description, pinned fields, and details like assignee (Krishna Rathod).



This screenshot shows the Jira Summary view for project 'scrum123'. The interface includes a left sidebar with navigation options like Planning, Summary, Timeline, Backlog, Board, Forms, Goals, Development, Code, Project pages, and Archived issues. The main area displays a summary of project status with metrics: 2 completed, 2 updated, 2 created, and 0 due soon. It also shows a status overview with a donut chart indicating 2 total issues, a recent activity log, a priority breakdown chart, and a types of work section. The 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
2311137



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.