Secure Software Design and Engineering

Lab 01: Security in the SDLC

Case Study 2

**Scenario Title:** Bug Tracking and Issue Resolution in JIRA

Scenario Overview

In this scenario, you will play the role of a software development team member working on a project. Your team uses JIRA to track and manage tasks, bugs, and new feature requests. You will be assigned various tasks related to bug tracking and issue resolution using JIRA.

Scenario Steps

1. Login to JIRA

- o   Open your web browser and go to the JIRA platform.
- o   Enter the provided login credentials (username and password).
- o   Click Login to access your JIRA workspace**.**
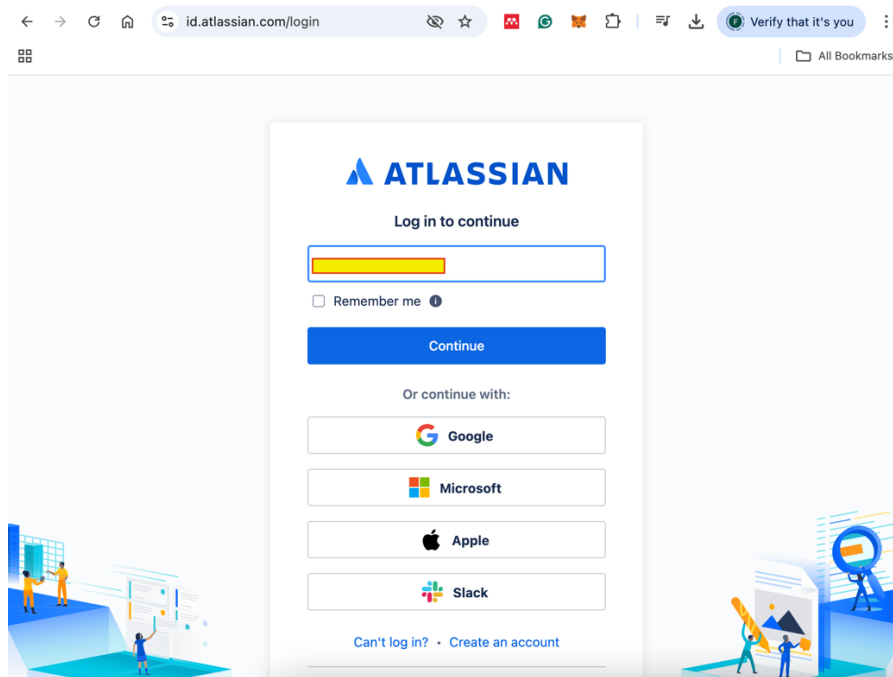
2. View the Project Dashboard

- o   After logging in, you will land on the project dashboard.
- o   Explore the layout:

  - **Project Summary** – Overview of the project's progress.

  - **Recent Issues** – List of newly created issues.

  - **Activity Feed** – Displays team updates on tasks and issues.

Add project details

Explore what's possible when you collaborate with your team. Edit project details anytime in project settings.

Required fields are marked with an asterisk *

Name *

Bug_tracking

Key ⓘ *

BT

Access *

🔒 Private   ⌄

Template   Change template

🔄   Scrum
      🔧 Jira
      Sprint toward your project goals with a board,
      backlog, and timeline.

Type   Change type

●—●   Team-managed
■—▲   Control your own working processes and
       practices in a self-contained space.

Cancel   **Create project**

3. Create a New Issue

- o   Click the **Create** button at the top of the page.
- o   In the issue creation form:

Create   _   ⤢   ✕

Required fields are marked with an asterisk *   👁 1   •••

Project *

📝 Bug_tracking (BT)   ⌄

Issue type *

🟥 Bug   ⌄

Learn about issue types ↗

Status

To Do   ⌄

This is the initial status upon creation

Summary *

Login Button Not Working

4. Assign an Issue

- o   Open the issue you just created from the **Issues** section.
- o   Click on the **Assignee** field.
- o   Select a team member from the dropdown list. Save the changes.

Summary *

Login Button Not Working

Description

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- **Steps to Reproduce:**
    - a. Open the web application.
    - b. Enter a valid username and password.
    - c. Click the "Login" button.
- **Expected Result:** The user should be logged in successfully.
- **Actual Result:** Nothing happens when clicking the "Login" button.

5. Add Comments

- o   Open the issue and scroll down to the **Comments** section.

r this

Automation ⚡ Rule executions   ∨

Created 8 minutes ago   ⚙ Configure
Updated 8 minutes ago

Activity

Show: Comments ∨   ✷   Newest first ⬇

Estimate: **0**

eate sprint

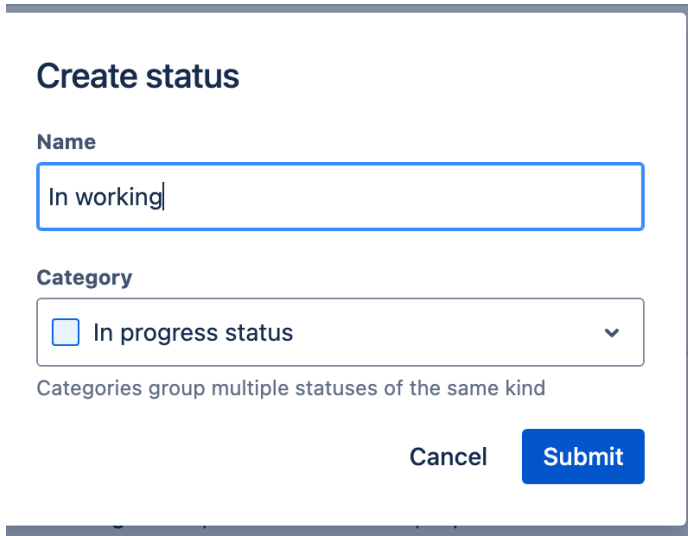Ⓝ   Aa∨ | ⋯ | A ∨ | ☰ ∨ | + ∨ | ✷

fix the bug

📹 Record a Loom video   Use...   **TRY**   ⋯

Save   Cancel

6. Transition the Issue

- o Open the issue and locate the **Status** field.
- o Change the status from **Open** to **In Progress** to indicate work has started.
- o If necessary, reassign the issue to a developer working on the fix.
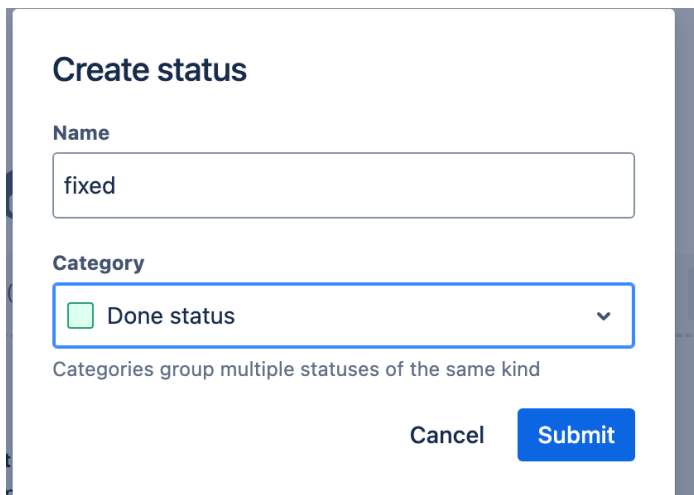
7. Resolve the Issue

o Once you believe the bug is fixed, change the issue status to "Resolved."

Activity

Show: Comments ∨   ⁝   Newest first ↓=

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Fixed the issue by adding an event listener to the login button. The missing reference in JavaScript was corrected. |

◻️ **Record a Loom video**   Use…   **TRY**   ⋯

Save   Cancel

N   Noor-ul-ain   8 minutes ago

fix the bug

Edit · Delete · 😊

8. Create a Sub-Task

o Create a sub-task related to the issue you resolved. This could be a task for testing the fix.