

Employee ID: ACFS2395

Name: Pavankumar Y G

Role: Jr.Software Engineer

BUG TRACKING IMPLEMENTATION

What is a bug and issue tracking tool?

Bug and issue tracking tools help software teams find, record, and track bugs in their software. It's critical that everyone on your team is able to find and record bugs, and even more important, assign them to the right team members at the right time. A great bug and issue tracking tool gives your team a single view of all items in the backlog, regardless of whether the work item is a bug or a task related to new feature development. Having a single source of truth of all issue types helps teams prioritize against their big picture goals, while continually delivering value to their customers.

1. **Issue Identification:** The process begins with identifying and documenting issues within the software. This includes not only technical glitches but also usability problems, design flaws, and feature requests.
2. **Bug Reporting:** Team members or users report bugs through a dedicated bug tracking system. These reports should include detailed information about the issue, such as steps to reproduce it, expected behavior, and actual results.
3. **Issue Classification:** Each reported issue is categorized based on its severity, impact on the system, and priority. This helps in prioritizing which bugs to address first.
4. **Assignment:** Bugs are assigned to developers or teams responsible for fixing them. Clear ownership ensures accountability and efficient resolution.

5. Tracking and Monitoring: A central bug tracking tool is used to record and track the progress of each issue. This tool provides a dashboard that displays the status of all reported bugs, making it easy to monitor the overall health of the project.

6. Resolution: Developers work on fixing the identified bugs. They may collaborate with testers to verify the fixes and conduct regression testing to ensure that resolving one bug doesn't introduce new ones.

7. Verification: After a bug is fixed, it undergoes a verification process to confirm that the issue has been successfully resolved. Testers validate the fix by retesting the software.

8. Documentation: Detailed records of bug reports, fixes, and testing results are maintained for future reference. This documentation aids in learning from past mistakes and improving software quality over time.

9. Release Planning: Bug tracking also influences release planning. Project managers use the bug backlog to decide when to release new versions of the software, balancing the need for new features with the resolution of critical issues.

10. Continuous Improvement: Bug tracking implementation is an iterative process. Teams continually refine their bug tracking procedures to enhance efficiency and minimize the occurrence of defects in future releases.

In summary, bug tracking implementation is an integral part of software development that ensures the identification, prioritization, and resolution of issues to deliver high-quality software products to users. It promotes collaboration, accountability, and continuous improvement within development teams.

Create an issue for bug

The screenshot shows the Jira Projects page in a web browser. The URL is `naturalnurturesmartproject.atlassian.net/jira/projects?selectedProjectType=software`. The page displays a list of recommended templates for teams like yours, including Kanban, Scrum, Bug tracking, Project management, and Personal task planner. Below the templates, there is a table of existing projects:

Name	Key	Type	Lead
My Scrum Project	SCRUM	Team-managed software	Pavankumar Y G
Natural Natures Mart	NAT	Team-managed software	Suresh Kokkanti
	NNM	Team-managed software	Suresh Kokkanti

A notification pop-up is visible on the left side of the page, stating: "Tap into your network. The Atlassian Community is full of authentic, relevant, and useful advice about Atlassian products and their use cases shared by real people and teams around the world. Join in."

Giving Project name for bug tracking

The screenshot shows the 'Add project details' form in Jira. The form is titled 'Add project details' and includes a description: 'Explore what's possible when you collaborate with your team. Edit project details anytime in project settings.' The form fields are:

- Name: `NaturalNurturesMartproject`
- Key: `NT`
- Share settings with an existing project: ☐

On the right side of the form, there is a 'Template' section with a 'Change template' button. The selected template is 'Bug tracking' by Jira Software, with the description 'Manage a list of development tasks and bugs.' The 'Create project' button is visible at the bottom right of the form.

Giving summary of the bug problem

The screenshot shows the Jira Software interface for the 'NaturalNurturesMartproject'. The 'Issues' page is displayed, showing a search bar and filters. A 'New bug' modal is open on the right side of the screen. The modal contains the following fields:

- Project:** NaturalNurturesMartproject (NT)
- Issue type:** Bug
- Status:** TO DO
- Summary:** (Empty text box)
- Components:** None
- Description:** (Empty text box)
- Create another issue:** (Checkbox)
- Create:** (Button)

The background shows the Jira Software interface with the 'Issues' page. The search bar is empty, and the filters are set to 'Project: NaturalNurturesMartproject'. The 'New bug' modal is open, and the 'Summary' field is highlighted.

The screenshot shows the Jira Software interface for the 'NaturalNurturesMartproject'. The 'Issues' page is displayed, showing a search bar and filters. A 'login' modal is open on the right side of the screen. The modal contains the following fields:

- Components:** None
- Description:** work on login page because validations are not working
- Reporter:** Pavankumar Y G
- Fix versions:** None
- Create another issue:** (Checkbox)
- Create:** (Button)

The background shows the Jira Software interface with the 'Issues' page. The search bar is empty, and the filters are set to 'Project: NaturalNurturesMartproject'. The 'login' modal is open, and the 'Description' field is highlighted.

Create another issue

This screenshot shows the Jira interface for the 'NaturalNurturesMartpr...' project. The issue 'login' (NT-1) is selected. The description is 'work on login page because validations are not working'. The environment is 'None'. The activity shows a comment from Pavankumar Y G. The issue is created 1 minute ago and updated 1 minute ago.

Projects / NaturalNurturesMartpr...

Issues

Search issues [] Project: NaturalNurturesMartproject Type Status Assignee Status Category: To Do More + Go back to filter Save filter BASIC JQL

Created [] 1 of 1

login NT-1

Attach Create subtask Link issue ...

Description
work on login page because validations are not working

Environment
None

Activity
Show: All Comments History Work log Newest first 17

Add a comment...
Pro tips: press [] to comment

To Do Actions

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

Details

Assignee Pavankumar Y G
Reporter Pavankumar Y G
Labels None
Priority Medium

More fields Original estimate, Time tracking, Epic Link, Components, ...

Created 1 minute ago
Updated 1 minute ago
Configure

This screenshot shows the Jira interface for the 'NaturalNurturesMartpr...' project. The issue 'registration' (NT-2) is selected. The description is 'validations are not working'. The environment is 'None'. The activity shows a comment from Pavankumar Y G. The issue is created 9 seconds ago and updated 9 seconds ago.

Projects / NaturalNurturesMartpr...

Issues

Search issues [] Project: NaturalNurturesMartproject Type Status Assignee More + Save filter BASIC JQL

Created [] 1 of 2

registration NT-2

Attach Create subtask Link issue ...

Description
validations are not working

Environment
None

Activity
Show: All Comments History Work log Newest first 17

Pavankumar Y G logged 1d 8 hours ago
Edit Delete

To Do Actions

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

Details

Assignee Pavankumar Y G
Reporter Pavankumar Y G
Labels None
Original estimate []
Time tracking 1d logged 1d remaining
Priority Medium

More fields Epic Link, Components, Fix versions, Affects versions, ...

Created 9 seconds ago
Updated 9 seconds ago
Configure

Successfully logged work
You've logged work to NT-2.

Thank You