



Software Requirements Tool Review

By Adam Paul

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What Complicates Selecting a Requirements Management Tool?

- Requirements management is a process that occurs throughout the full life cycle of a software project.
- As information is obtained from stakeholders, project documents, and existing goals, requirements, or business rules, the requirements set will expand and grow over time.
- Naturally, this also means that several other informational artifacts will also be extracted, such as limitations, constraints, user stories, tasks, and more.
- However, every software project is different in terms of management, process, and developer needs.
- This means that software projects need supporting requirements management software that is functional, customizable, and supports near-constant editing and revision.



What is JIRA?

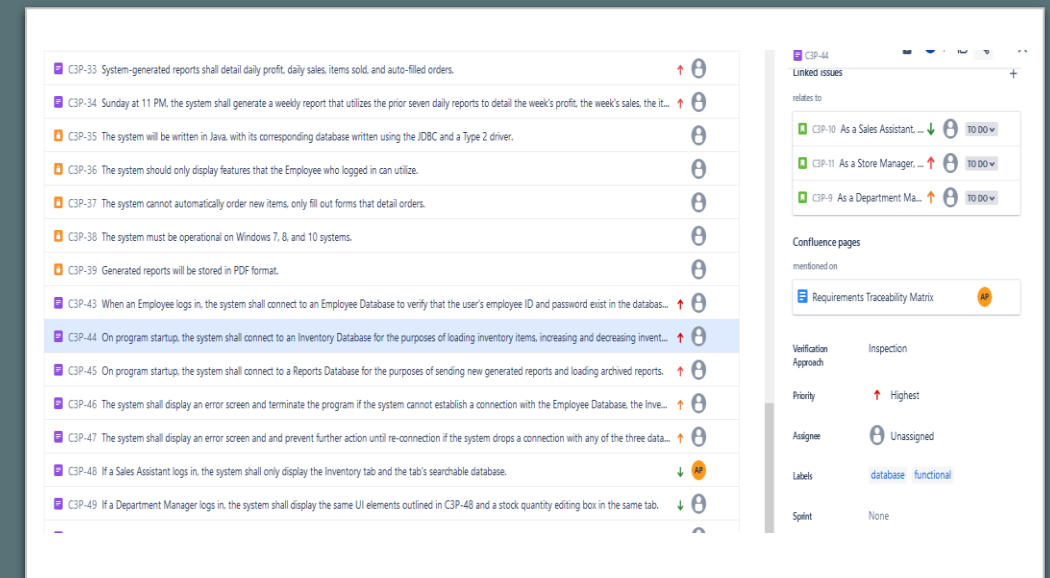
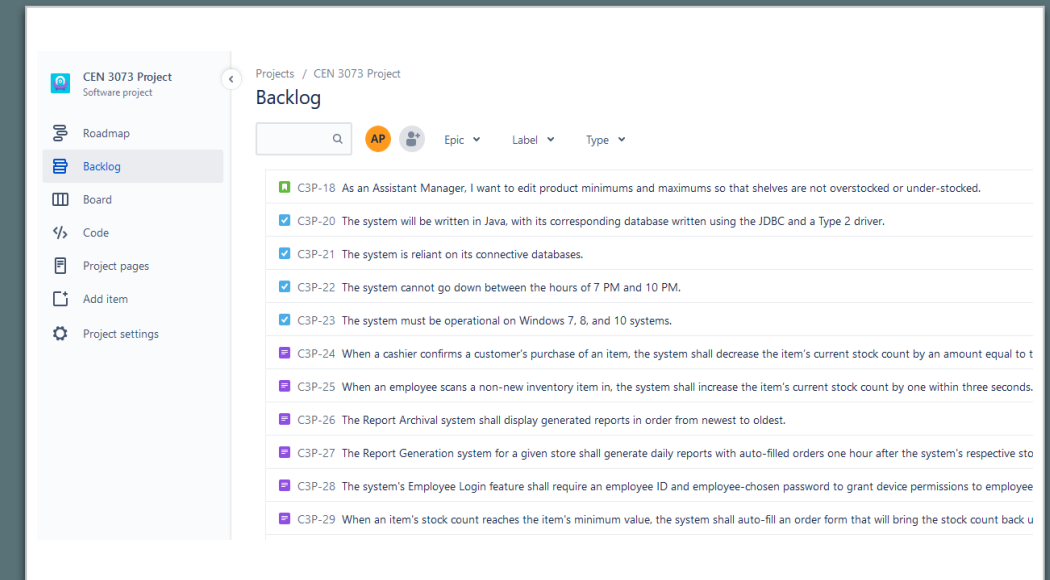
- JIRA is a issue tracking product/software tool developed by Atlassian.
- JIRA is built around three key aspects:
 - Bug tracking
 - Project management
 - Issue tracking
- JIRA's high customizability and easy-to-learn tools make it a popular choice for software projects.

Why JIRA?

- Atlassian's project licensing policy is clear, fair, and upfront.
- Customizability is JIRA's main selling point, being one of the most user-adaptive project management tools on the market.
- JIRA contains a plethora of compatible user-made add-ons that can enhance the tool's functionality.
- JIRA provides support for a variety of different project types, such as Scrum, Agile, and even more traditional project workflows.
- Several useful project management tools are built into JIRA, such as Kanban boards, Agile reporting, and version control connectivity.
- Many well-known companies place their trust in JIRA, utilizing it to make their latest and greatest projects.
- These companies include Domino's, Dropbox, Visa, Costco, Delta, Pfizer, Coca Cola, Samsung and more.

What Are Issues, and How Does JIRA Support Them?

- Issues are a catch-all term for the several key informational items that support a given software project.
- Often, these are items that will constantly be referred to during a software project, making their clear organization one of the top priorities of any project.
- Examples of issue types include, but are not limited to, requirements, user stories, constraints, bugs, business rules, and use cases, and testing methods.
- JIRA supports issues through the backlog feature of the software, as well as several smaller built-in shortcuts.
- JIRA distinguishes different issues by type. Several pre-built issues are available by default, but users can also create their own issue types to fit the needs of their project.
- Each issue can have several fields, such as labels, priorities, and links to other issues.
- JIRA also supports the creation of custom fields, allowing for even further customization.



What are Workflows in JIRA?

- Workflows are distinct phases of an issue's life cycle.
- Standard workflows contain three phases :
 - Created/Open/To-Do
 - WIP/In-Progress
 - Completed/Closed/Done
- However, JIRA also supports the ability to create custom workflows.
- Each issue in the user's project has the potential to be tracked using this feature.
- This feature streamlines the documentation process for the project, letting individual developers independently update the status of the project.

Projects / CEN 3073 Project

C3P Sprint 1

The screenshot displays a JIRA board for 'C3P Sprint 1' under the 'CEN 3073 Project'. The board is organized into three columns representing different stages of the workflow: 'TO DO 1 ISSUE', 'IN PROGRESS 1 ISSUE', and 'DONE 1 ISSUE'. Each column contains a single issue card. The 'TO DO' column has issue C3P-24 with the description 'When a cashier confirms a customer's purchase of an item, the system shall decrease the item's current stock count by an amount equal to the quantity purchased within three seconds.' and a 'functional' label. The 'IN PROGRESS' column has issue C3P-25 with the description 'When an employee scans a non-new inventory item in, the system shall increase the item's current stock count by one within three seconds.' and a 'functional' label. The 'DONE' column has issue C3P-26 with the description 'The Report Archival display generated re order from newest t' and a 'nonfunctional' label. Each issue card includes a menu icon, the issue ID, and a status indicator (a red arrow for 'TO DO' and 'IN PROGRESS', and a green checkmark for 'DONE').

Projects / CEN 3073 Project

C3P Sprint 1

Search [] AP [] Label [v]

TO DO 1 ISSUE

When a cashier confirms a customer's purchase of an item, the system shall decrease the item's current stock count by an amount equal to the quantity purchased within three seconds.

functional

C3P-24

IN PROGRESS 1 ISSUE

When an employee scans a non-new inventory item in, the system shall increase the item's current stock count by one within three seconds.

functional

C3P-25

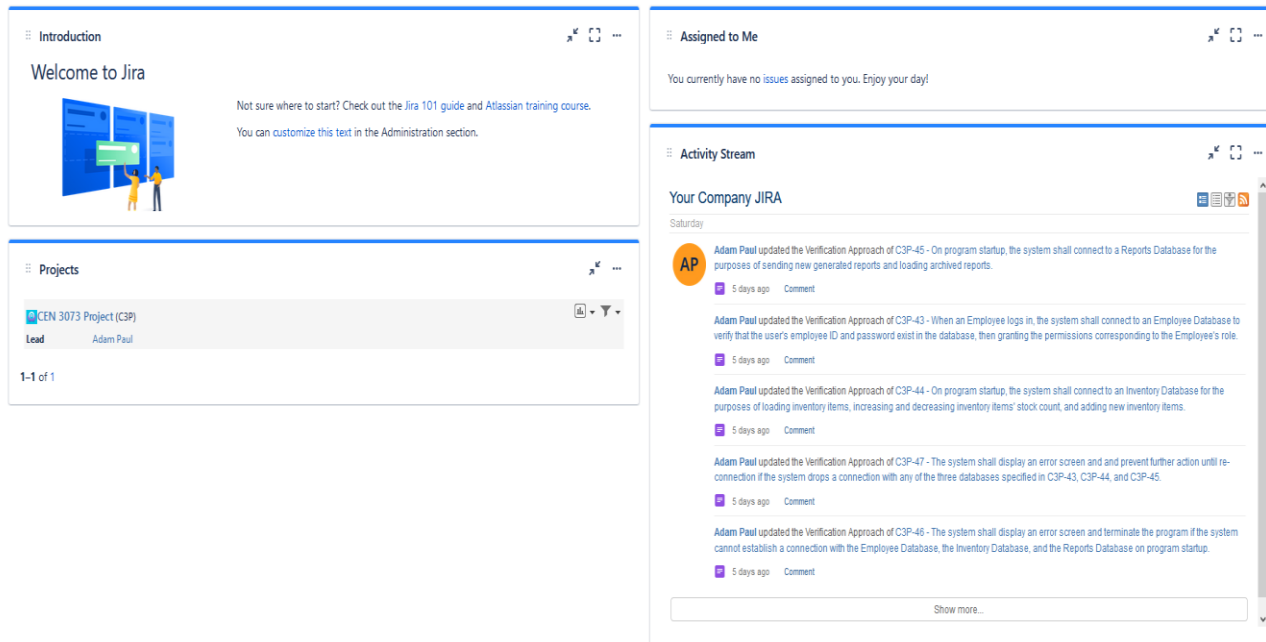
DONE 1 ISSUE ✓

The Report Archival display generated re order from newest t

nonfunctional

C3P-26

What is the JIRA Dashboard?





- The JIRA dashboard is a screen that essentially serves as the hub for any given JIRA user.
- This screen is highly customizable, giving the user to add many different gadgets to their page that display various pieces of information.
- For example, the Projects gadget lists all the software projects you're currently assigned to, giving you easy access to several pages within each project.
- The Assigned To Me gadget displays a list of all the issues within software projects that are currently assigned to you, giving you an easy way to measure your workload.
- The Activity Stream gadget displays a list of edits made to projects that you're a part of, ensuring that you don't fall out of the loop as to what your team has been working on.

How Does JIRA Support Requirements Management?

- JIRA supports the creation of a fully-customizable “Requirement” issue type.
- Using the editable nature of issues, you can edit this issue type to include many useful requirements tracking elements.
 - These include workflow status, description, priority, labels, and other linked requirements, user stories, or issues.
- JIRA also gives users the ability to specify assignees, making it easy for project managers to keep track of their developers and assign them to issues on the spot.
- As requirements evolve over time, JIRA supports the ability to go back and revise existing requirements to fit stakeholder or project needs.
 - Nothing is final or irreversible, allowing for adaptations to be made without harming other portions of the project.
- JIRA also supports the ability to sort requirements by their respective fields.
 - For example, one could display a list of every single non-functional requirement in a project in a matter of seconds by searching by label.
- Requirements from the backlog can be directly imported into tables for use on any page in the project.


Approach

Priority  Highest

Assignee  Unassigned

Labels functional

Sprint None

Reporter  Adam Paul

Created March 6, 2021, 4:24 PM
Updated 5 days ago

 Configure

Activity

Show: Comments History Newest first 

 AP

Add a comment...

Pro tip: press **M** to comment

 Add epic /   1   ... 

 C3P-27

The Report Generation system for a given store shall generate daily reports with auto-filled orders one hour after the system's respective store closes.

   ...

To Do 

Description

Sets an exact time for when daily reports will be generated so that backup records are guaranteed.

Linked issues

+

relates to

How Does JIRA Support Requirements Documents?

- JIRA contains built-in spaces for pages and blog posts.
- Pages are project artifacts that one would share with their project's stakeholders, such as the BRS or SRS.
- Blog posts are typically for informal documents not shown to stakeholders, either for the benefit of the user or the team.
- Both types of documentation spaces have a selection of several templates to choose from.
- Once a template is selected, users can edit and update their document using a Microsoft Word-esque text editor that allows for unlimited revisions.
- Special commands can be used to integrate project tables, images, or even other JIRA pages or blog posts.
- Once done, users can publish their document, allowing them to either export it to a PDF or .doc file.

Business Requirements Specifications (BRS)



Created by Adam Paul
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Introduction

Business Purpose

On the store level, Earth Origins faces two large issues with how its inventory is currently managed. One such issue is that low-demand items have their stock replenished at the same rate as high-demand items. This fast rate of replenishment causes issues, as the store is spending more replenishing this stock than they are profiting from sales of it. On the opposite end of the spectrum, high-demand items are being sold too quickly. This results in a loss of sales due to under-stocking. The current inventory system set in place cannot keep track of item stock when a given item is being sold, meaning that employees have to vigilantly watch stock. The proposed system would decrease spending by not ordering items with plentiful stock, increase profit by ordering high-demand items when their stock is depleted, and allow for workers to focus more of their attention on tasks other than stock watching.

Business Scope

The work done by this company is entirely in the business domain of retail. Standard activities include selling products, providing information on sold items, assisting customers in finding items, preparing and selling health foods meals, keeping track of item inventory, and ordering shipments of inventory items. The developed system would primarily help with the latter two items on the list. It would electronically track item stock and automatically order new shipments of items that are low in supply.



Share

How Does JIRA Secure My Projects?

- JIRA offers several tools to secure your projects, allowing you to rest easy.
- When it comes to built-in features, the primary feature of use is the project whitelist feature.
 - Projects can be designated as private.
 - Project leads can designate who has access to what parts of the software project
 - This includes designating who can edit particular issues, should that functionality be necessary.
 - Those who aren't whitelisted have no access to your company's project.
- JIRA Access, an additional subscription-based service, offers the following:
 - Single Sign-On support
 - 2-Factor Authentication
 - API access controls
 - An audit log for the organization
 - Other security integrations
 - Pricing that scales based on company size



JIRA Summary

- JIRA is a highly-customizable project/issue management tool developed by Atlassian.
- JIRA supports the creation of issues, highly-customizable informational items that apply to many areas within a given software project.
- Workflows allow for easy tracking of what issues are incomplete, in-progress, and finished.
- Dashboards make it easy for users to keep track of their work on all the existing projects they're assigned to.
- JIRA's advanced text editor makes the creation, editing, and sharing of project artifacts simple and efficient.
- Requirements management is made easy, as existing requirements can either be revised or expanded upon with new fields at any time in the project's lifespan.
- On top of its built-in access restrictions, JIRA has additional add-on subscriptions that can take the security of your project to the next level.

