



# JIRA

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## About the Tutorial

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JIRA is a project management tool used for issues and bugs tracking system. It is widely used as an issue-tracking tool for all types of testing. This tutorial introduces the readers to the fundamental features, usage, and advantages of JIRA.

This tutorial will guide the users on how to utilize this tool to track and report bugs in different applications.

## Audience

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This tutorial has been prepared for professionals who want to learn the uses of the JIRA tool. It will provide the readers enough understanding on the various components of JIRA with suitable examples.

## Prerequisites

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As a reader of this tutorial, you should be aware of the contents that have to be provided in a bug. Additionally, it will help if you have knowledge of the bug and testing lifecycle as well.

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# 1. JIRA – Overview

JIRA is an **Incident Management Tool** used for Project Management, Bug Tracking, Issue Tracking and Workflow. JIRA is based on the following three concepts – Project, Issue and Workflow.

## Important Points to Note

The following points explain some interesting details of JIRA.

- JIRA is an incident management tool.
- JIRA is developed by **Atlassian Inc.**, an Australian Company.
- JIRA is a platform independent tool; it can be used with any OS.
- JIRA is multi-lingual tool – English, French, German, Japanese, Spanish, etc.
- JIRA supports MySQL, Oracle, PostgreSQL and SQL server in the backend.
- JIRA can be integrated with many other tools – Subversion, GIT, Clearcase, Team Foundation Software, Mercury, Concurrent Version System and many more.

## License and Free Trial

The following points describes the legalities of the JIRA Tool.

- JIRA is a commercial tool and available as a Trial version for a limited time.
- To utilize JIRA services, a license is required.
- JIRA provides free license for academic projects.
- A 15-day trial version is available for an individual person to use.

## Use of JIRA

Following are some of the most significant uses of JIRA.

- JIRA is used in Bugs, Issues and Change Request Tracking.
- JIRA can be used in Helpdesk, Support and Customer Services to create tickets and track the resolution and status of the created tickets.
- JIRA is useful in Project Management, Task Tracking and Requirement Management.
- JIRA is very useful in Workflow and Process management.

## JIRA – Core Features

The following table explains some of the most important and commonly used features in detail for better understanding.

S. No.	Core Features	Description
1	<b>Boards</b>	<p>JIRA supports Scrum and Kanban boards.</p> <p>These boards provide an immediate snapshot of the project to the team.</p> <p>Helps to quickly review the progress of the project and see the status of the individual tasks.</p> <p>Board workflow can be customized to fulfil the way a team wants to proceed.</p>
2	<b>Business Project Template</b>	<p>JIRA supports a number of business templates to manage simple tasks and complex tasks like workflow.</p> <p>Template can be customized based on the team and their approach. Ex: Workflow can be customized based on each team's approach.</p> <p>Every step is accounted and team can move to achieve their goals.</p>
3	<b>Task Details</b>	<p>Tasks can be defined at the individual level to track the progress.</p> <p>Status of every task, comment, attachment and due dates are stored in one place.</p>
4	<b>Notifications</b>	<p>An email can be sent for a particular task to the users.</p> <p>Voting and watching features to keep an eye on the progress for the stakeholders.</p> <p>Use <b>@mention</b> to get the attention of a specific team member at Comments/Description.</p> <p>User will instantly notify if something is assigned or if any feedback is required.</p>
5	<b>Power Search</b>	<p>JIRA supports a powerful search functionality with Basic, Quick and Advanced features.</p> <p>Use the search tool to find answers like due date, when a task was last updated, what items a team member still needs to finish.</p> <p>Project information at one place, search within a project.</p>

6	<b>Reports</b>	<p>JIRA supports more than a dozen reports to track progress over a specific timeframe, deadlines, individual's contribution, etc.</p> <p>Easy to understand and generate different reports those help to analyse how the team is going on.</p> <p>Easy to configure these reports and display the matrices to the stakeholders.</p>
7	<b>Scale with Team Growth</b>	JIRA supports any business team and any project irrespective of size and complexity.
8	<b>Add -Ins</b>	<p>JIRA supports more than 100 add-ins to connect with different software to make work easy.</p> <p>Wide range of add-ins makes it as universal across the globe.</p>
9	<b>Multilingual</b>	JIRA supports more than 10 languages those are widely used as English (US, UK, India), French, German, Portuguese, Spanish, Korean, Japanese and Russian.
10	<b>Mobile App</b>	<p>JIRA is available as a Mobile Application as well.</p> <p>It is available on Google Play Store and App Store (iTunes) of Apple.</p> <p>Easy to stay connected with the team while moving anywhere with notification, comments and project activity.</p>



## 2. JIRA – Project

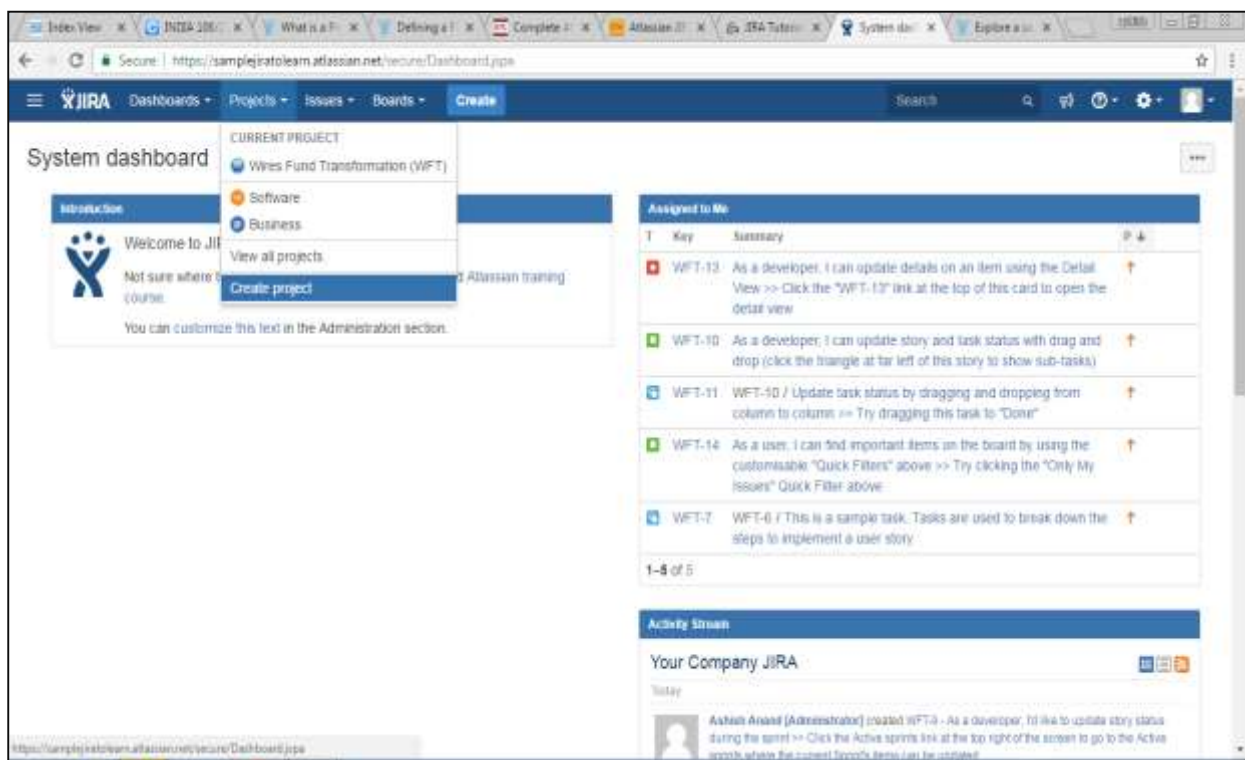
A Project contains issues; a JIRA project can be called as a collection of issues. A JIRA Project can be of several types. For example –

- Software Development Project
- Marketing Project
- Migration to other platform project
- Help Desk Tracking Project
- Leave Request Management System
- Employee Performance System
- Website Enhancement

### Create a New Project

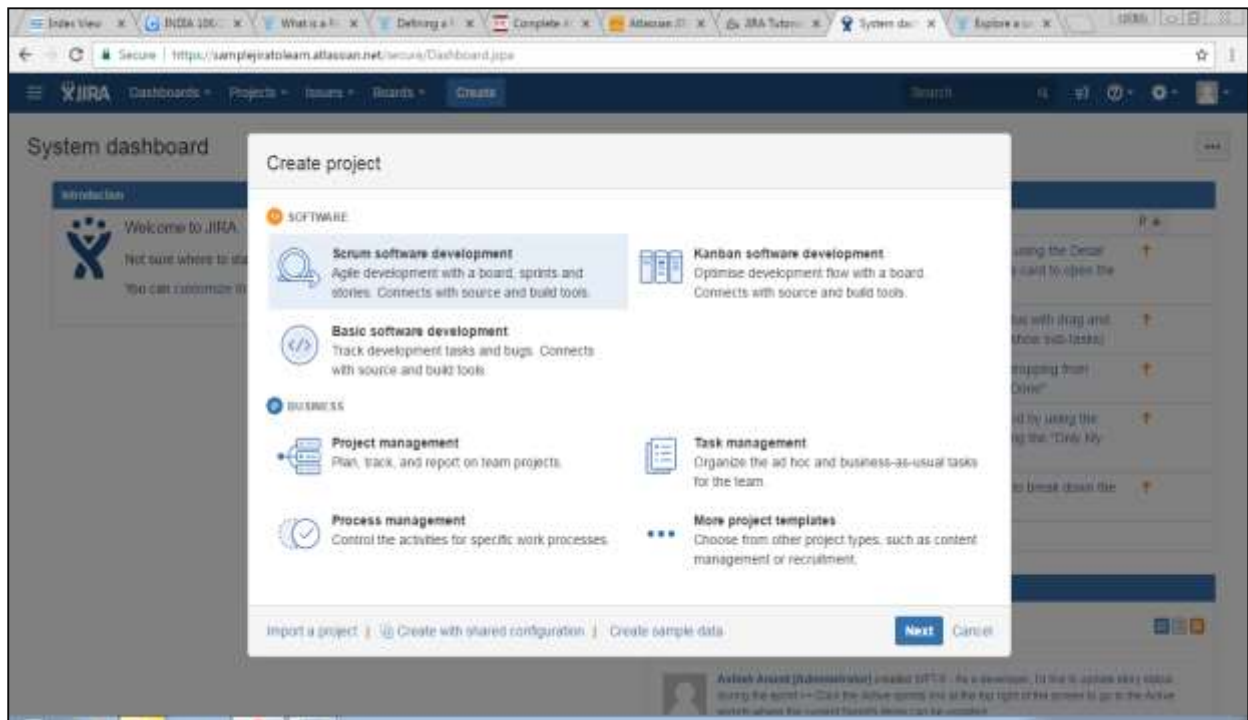
To create a project, the user should login as a JIRA Service Desk Admin and then Click on Project → Create Project.

The following screenshot shows how to reach to the **Create Project** button from the Dashboard.



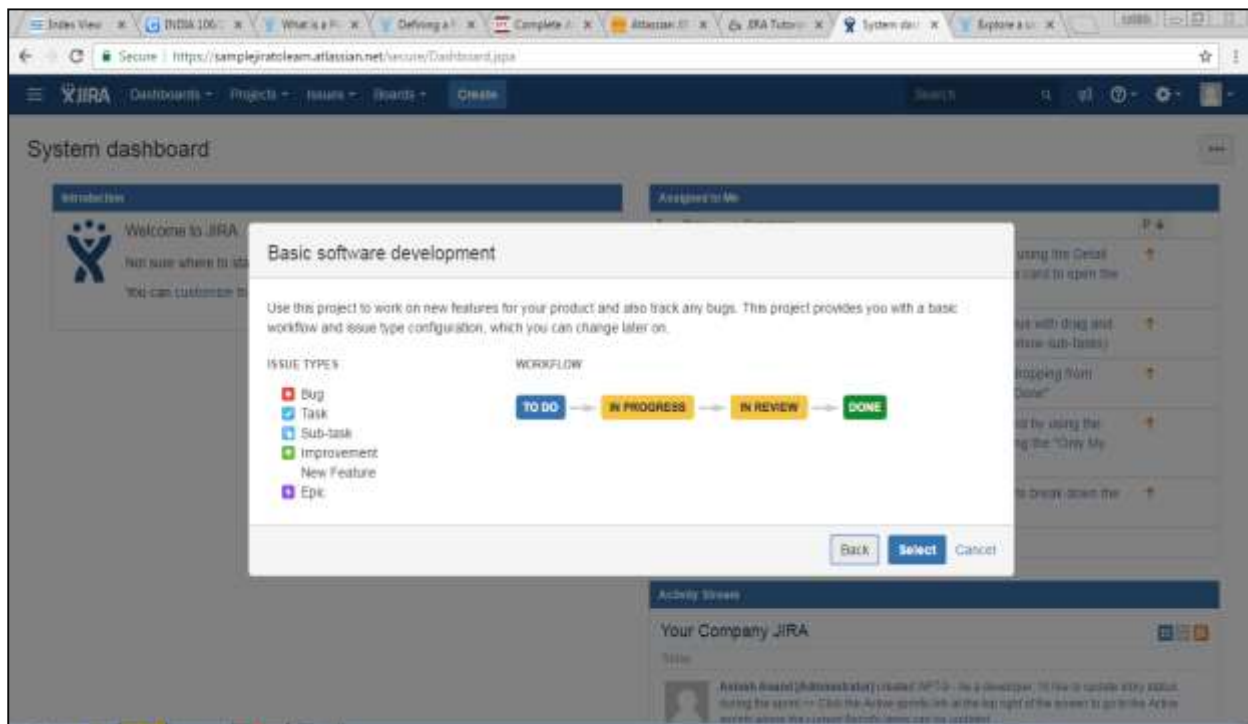
Choose the type of Project that suits your requirement and the process it should follow.

The following screenshot displays the type of projects available in JIRA.



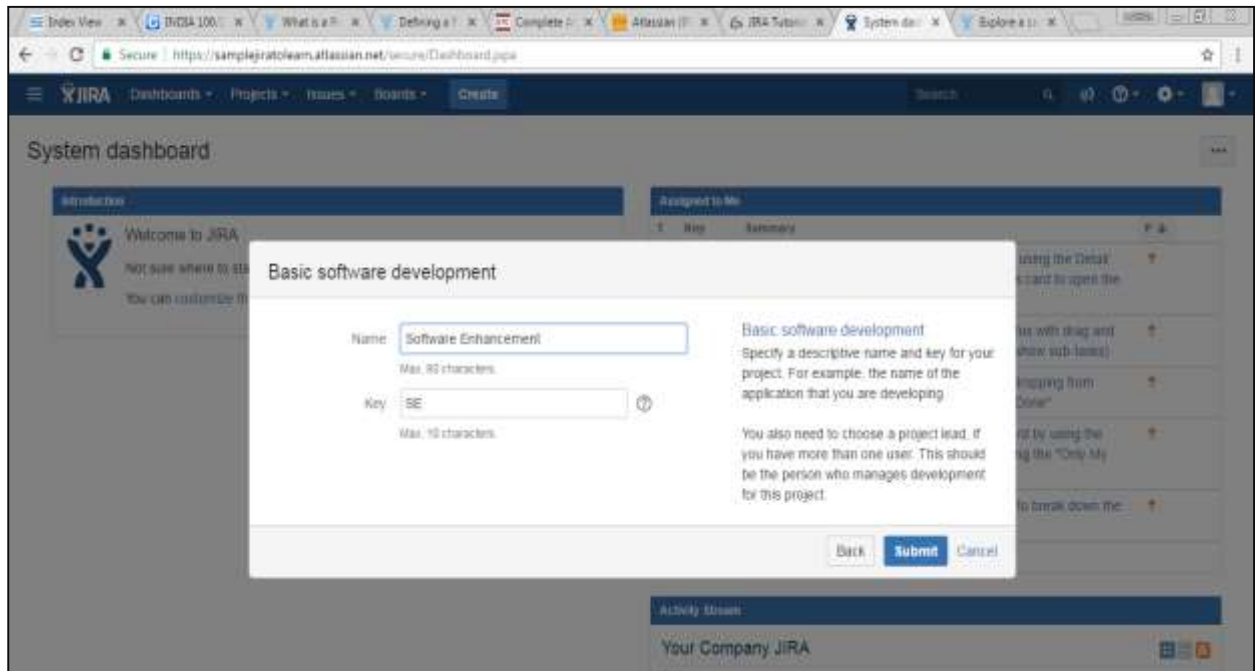
Once the type of project is selected, click on Next. The user will see the flow of the project based on the selection. Here, we have selected **Basic Software development**.

The following screenshot displays the available issue types and the workflow for the chosen project in the step mentioned above:

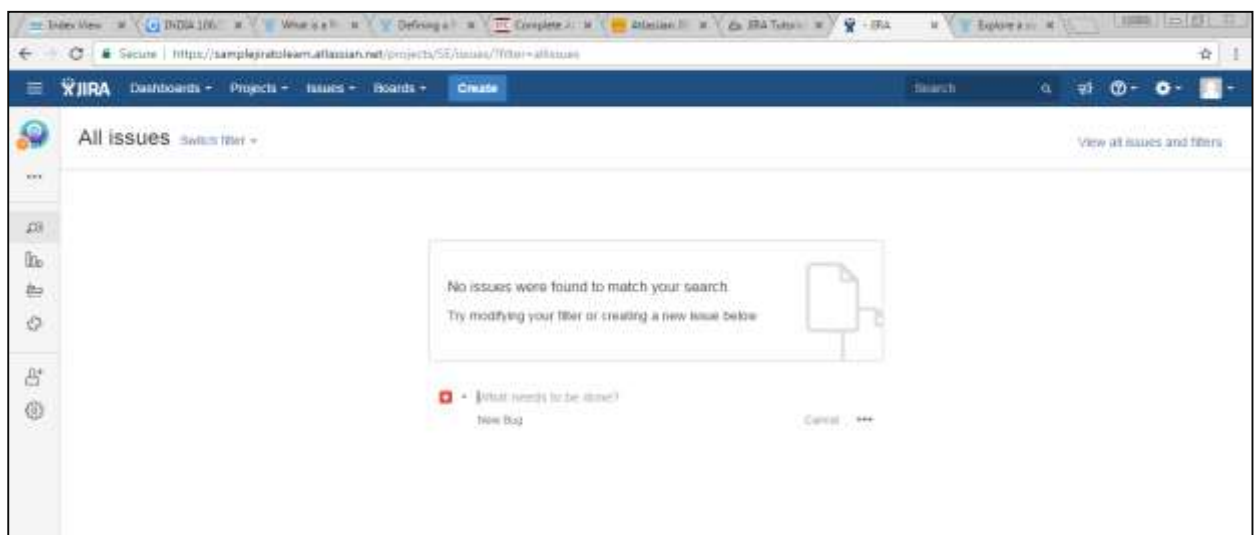


Click on the Select button, enter the name of the project and confirm the Key that the user wants to display as a reference in all the issues. Once this is done, click on the Submit button.

The following screenshot displays the fields to provide details before the creation of a project.



The page having issues will display. The following screenshot displays whether any issues are linked with a new created project.



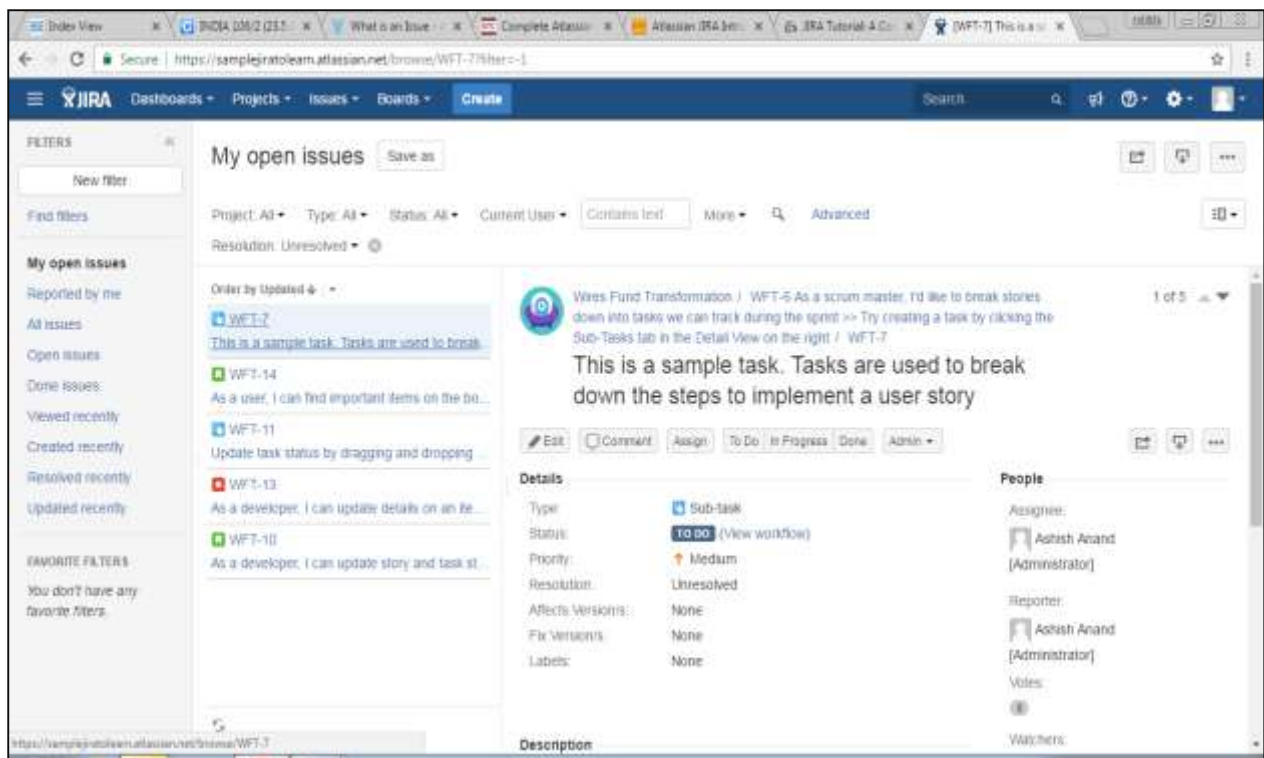
### 3. JIRA – Issues

JIRA is a project management tool and uses issues to track all the tasks. An issue helps to track all works that underlie in a project. In real time, every work or task either technical, non-technical, support or any other type of a project in JIRA are logged as an issue.

An issue can be dependent on the organization and requirements:

- Story of a project
- Task of a story
- Sub-task of a story
- A defect or bug can be an issue
- Helpdesk Ticket can be logged as issue
- Leave Request

The following screenshot shows the basic page and information of an open issue.



## 4. JIRA – Workflow

In JIRA, workflow is used to **track the lifecycle of an Issue**. Workflow is a record of statuses and transitions of an issue during its lifecycle. A status represents the stage of an issue at a particular point. An issue can be in only one status at a given point of time like Opened, To Do, Done, Closed, Assigned, etc.

A transition is a link between two statuses when an issue moves from one status to another. For an issue to move between two statuses, a transition must exist. In a simple way, a transition is some kind of work done on the issue, while status is the impact of work on that issue.

### Example

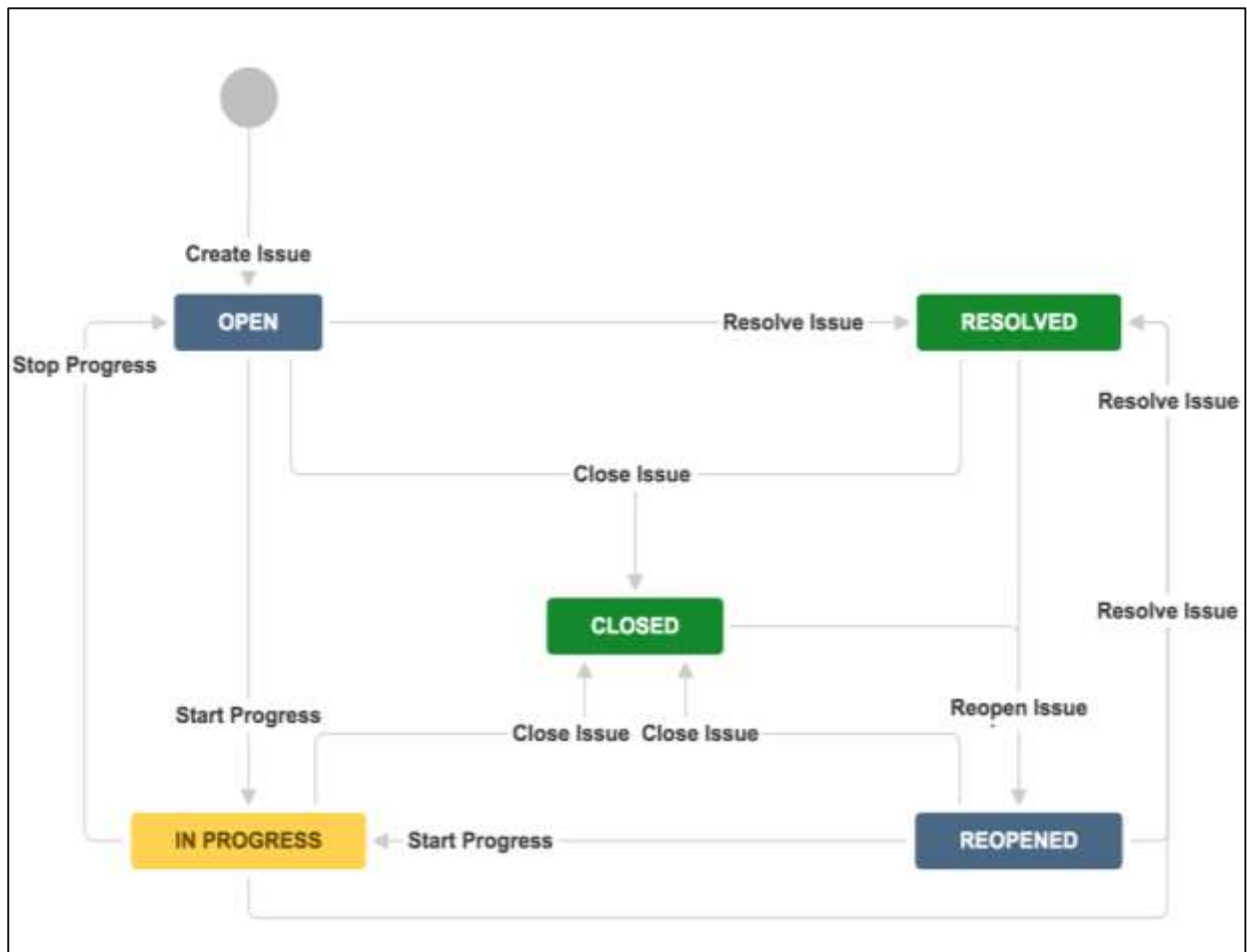
As of now, an issue is created and opened. When the assignee starts working on the issue, the issue moves to the **In Progress status**. Here, the transition is starting the work, while the status of the issue is now progressive.

JIRA workflow has the following stages to track as soon as an issue is created:

- **Open Issue:** After creation, the issue is open and can be assigned to the assignee to start working on it.
- **In Progress Issue:** The assignee has actively started to work on the issue.
- **Resolved Issue:** All sub-tasks and works of that Issue are completed. Now, the issue is waiting to be verified by the reporter. If verification is successful, it will be closed or re-opened, if any further changes are required.
- **Reopened Issue:** This issue was resolved previously, but the resolution was either incorrect or missed a few things or some modifications are required. From Reopened stage, issues are marked either as assigned or resolved.
- **Close Issue:** The issue is considered as finished, resolution is correct as of now. Closed issues can be re-opened later based on the requirement.

JIRA Workflow can be referred as a **Defect Lifecycle**. It follows the same concepts; the only difference is that it is generic for all issues rather than limited to Defects only.

The following diagram shows a standard workflow:



A transition is a one-way link, if an issue moves back and forth between two statuses; two transitions should be created.

**Example:** There are two-way transitions between closed and re-opened statuses. A closed issue can be reopened if any modifications are required at any time until the project completes, while a re-opened issue can be closed directly if additional work is taken care in another issue and no specific work has been done on the re-opened issue.

# 5. JIRA – Installation

In this chapter, we will learn how to install JIRA on your system.

## Important Points to Note

- JIRA is a web application that provides a private website to an individual or a set of requested users belonging to the same company/project.
- JIRA can be run as a Windows Service at the server side.
- JIRA is a pure Java based application and supports all OS platforms like Windows, Linux of different versions or MAC, etc., those satisfy JDK/JRE requirements.
- JIRA supports all famous browsers like Chrome, IE, Mozilla and Safari.
- It supports Mobile browsers as well in mobile views.

## System Requirements

Since JIRA is a web-application, it follows the concept of client/server. It means that JIRA can be installed centrally on a server and users can interact with it through web-browsers using a website from any computer.

- **Browser:** JavaScript should be enabled, the user is recommended not to use any script-blocking tool like **NoScript** to access full functionality of JIRA.
- **JDK/JRE:** It is recommended to update JRE/JDK with the latest version. JIRA 6.4 recommends using JRE/JDK version 8.

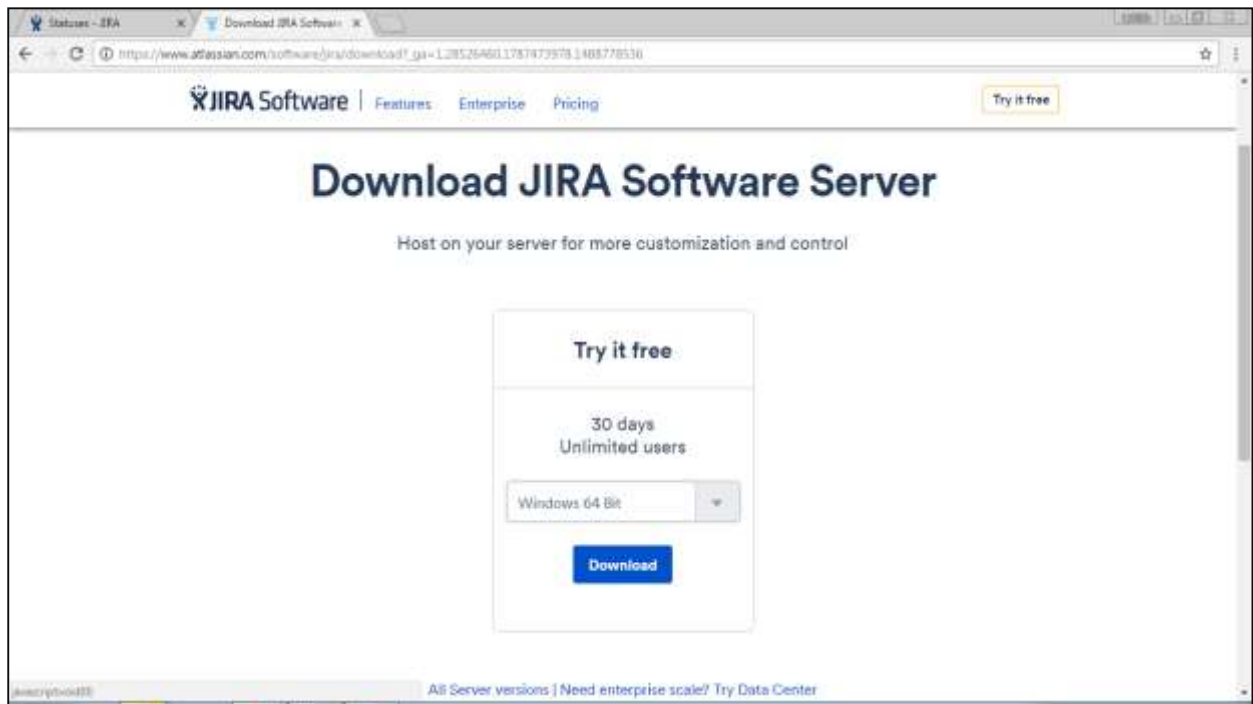
Since our scope is to consume the JIRA application as end users, we can ignore the server side requirements.

## Installation at the Server Side

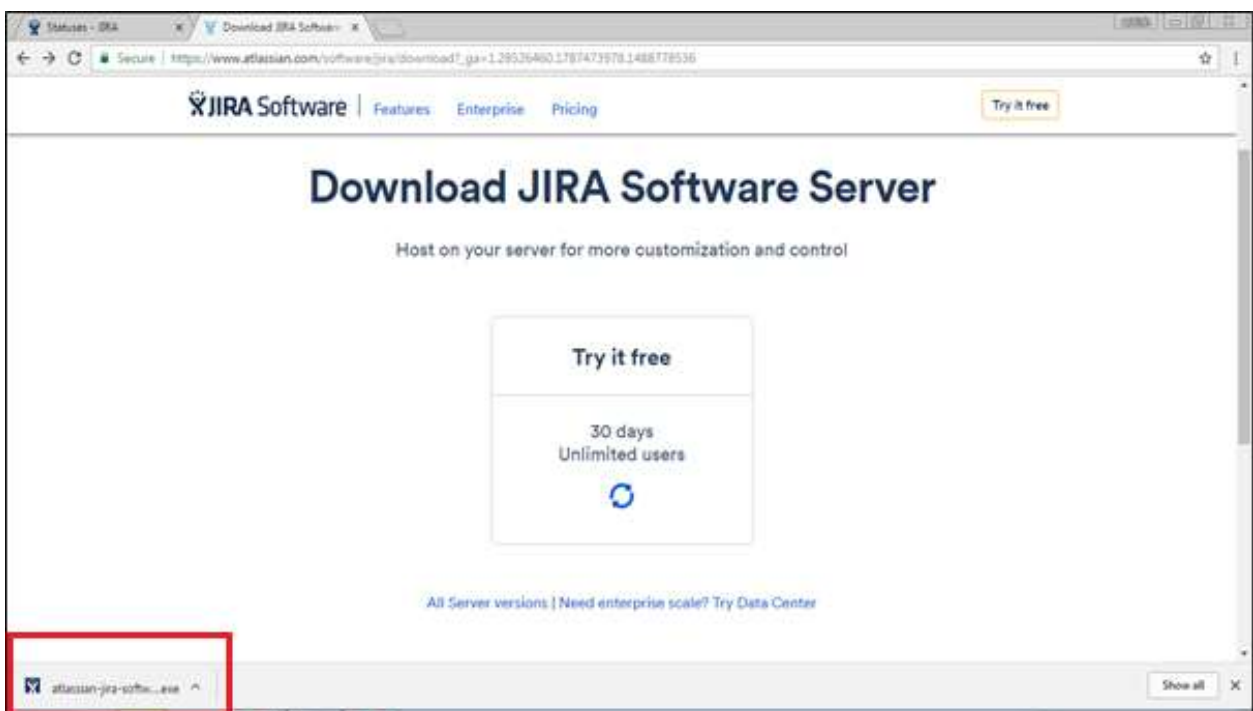
- JIRA follows the Client/Server concept. At the server side, JIRA must be installed before using it as end user.
- At the server side, JIRA must connect with relation database to store issues/application data.
- Download the JIRA **Windows Installer.exe** file from the following link – [https://www.atlassian.com/software/jira/download?\\_ga=1.28526460.1787473978.1488778536](https://www.atlassian.com/software/jira/download?_ga=1.28526460.1787473978.1488778536)
- Select the OS type and click on Download



The following screenshot shows how to download the **.exe** file for a specific OS.

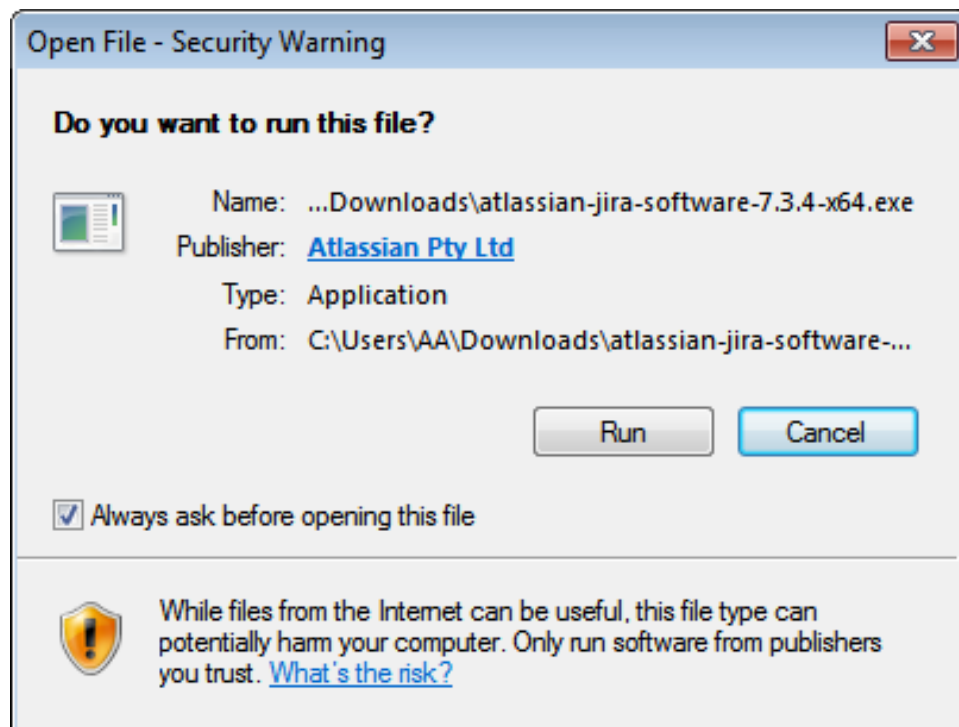


Run the .exe file to run the installation wizard. The following screenshot shows the downloaded .exe file.

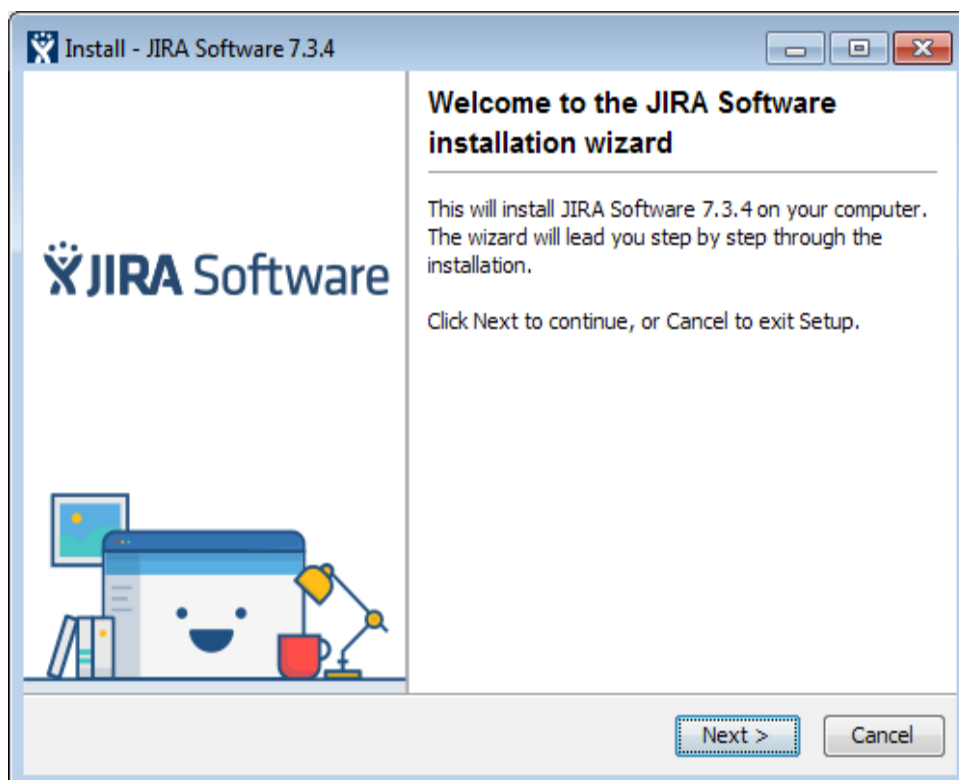




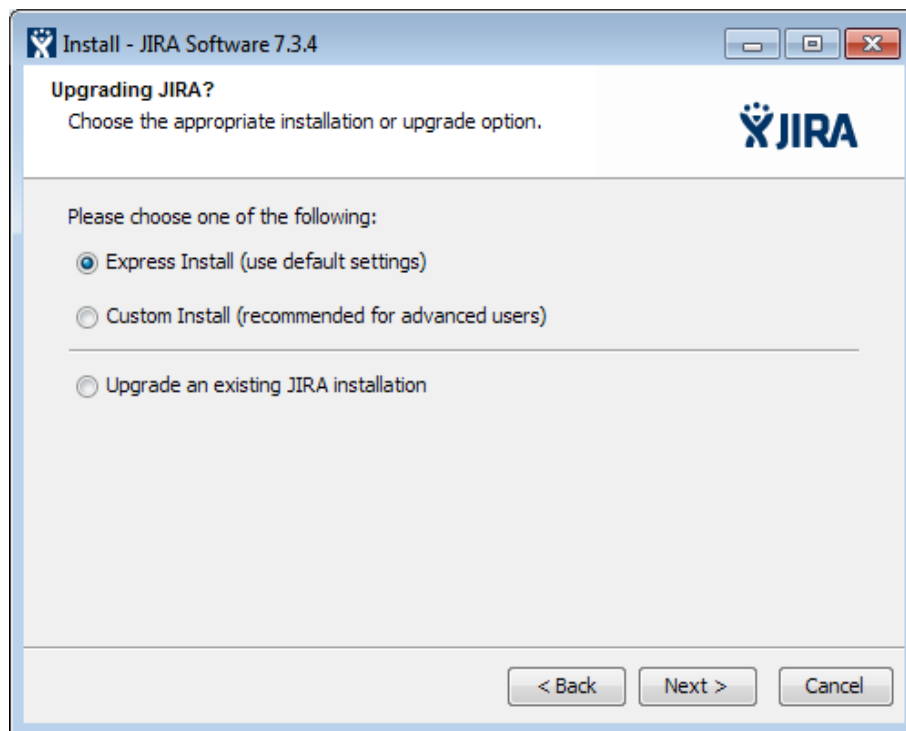
After clicking the .exe file, the **Run** confirmation pop-up displays, click on RUN. The following screenshot shows the RUN confirmation pop-up.



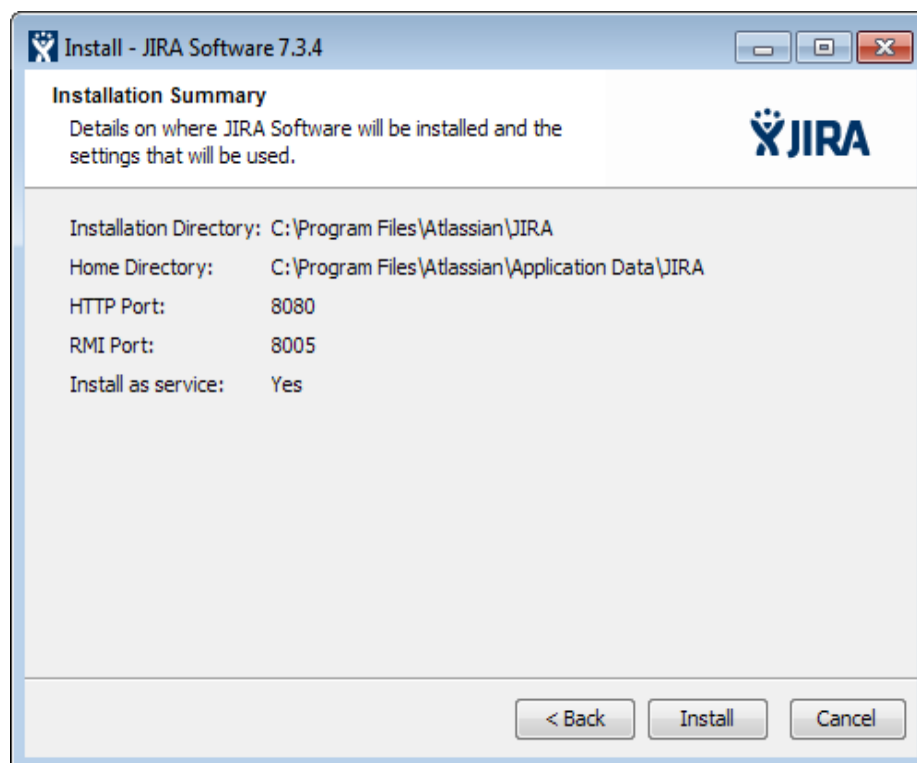
The following JIRA installation wizard displays, click on Next.



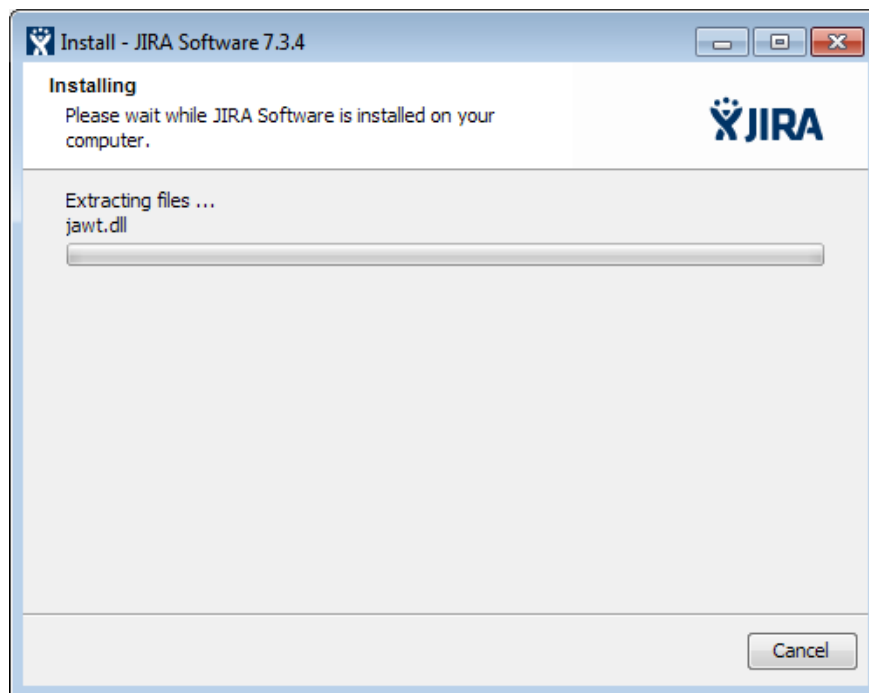
Choose the appropriate installation option as shown in following screenshot and then click on Next.



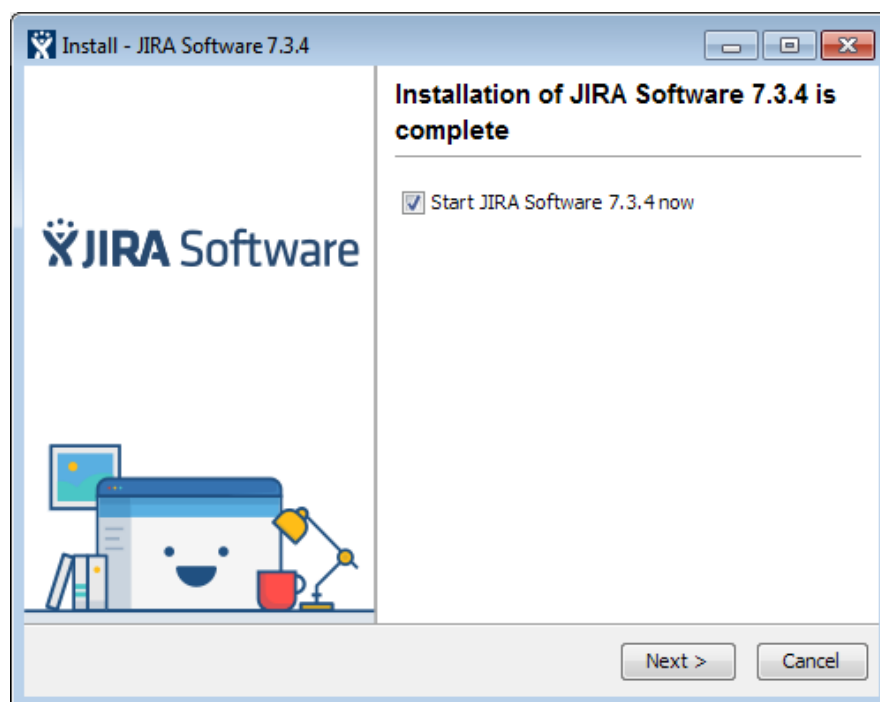
The installation summary is displayed with the Destination Directory, Home Directory, TCP Ports, etc., as shown in the following screenshot.



Click on Install. JIRA will start installing as displayed in following screenshot. It takes a couple of minutes to finish the installation.



After installation, JIRA will be started automatically if the check box to "Start JIRA Software 7.3.4 now" is checked. Then click on Next, if not, it can be accessed using the appropriate Windows Start Menu shortcut.



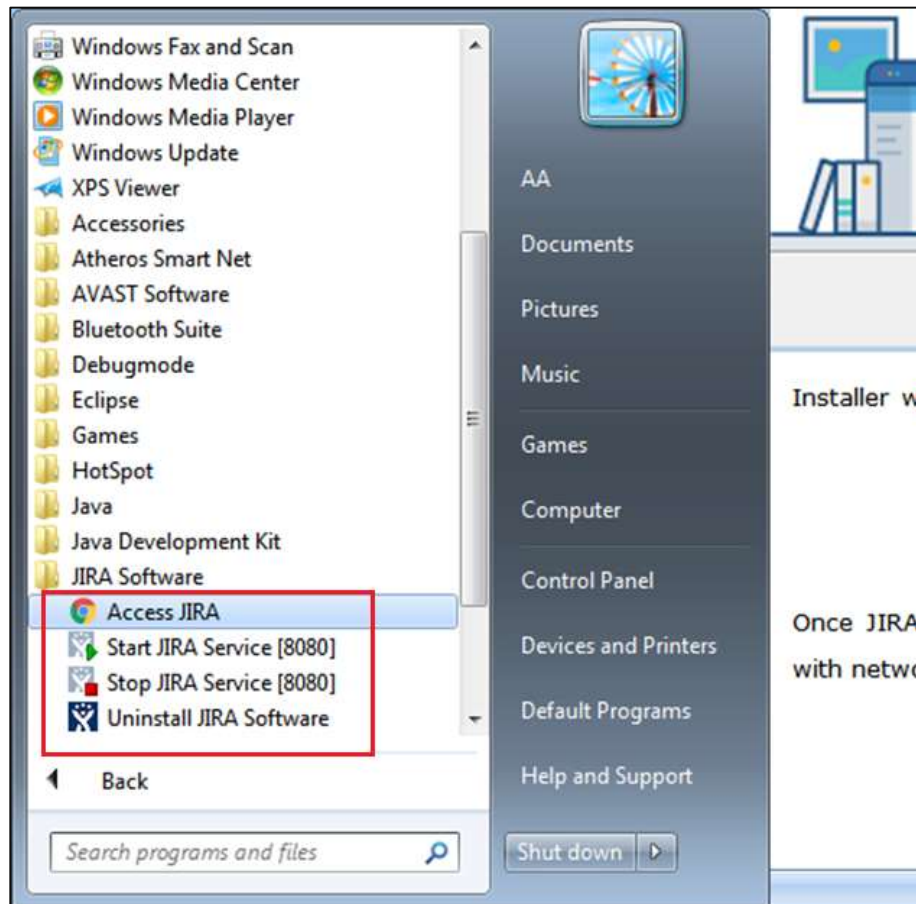
Click the Finish button.



The installer will create the following shortcuts on the start menu:

- Access JIRA
- Start JIRA Server
- Stop JIRA server
- Uninstall JIRA

The following screenshot shows the above-mentioned shortcuts:



Select the license type and enter organization name as shown in following screenshot:

MyAtlassian Licenses Orders Downloads Buy

Please select the proper license type

### New Evaluation License

Product: JIRA Software

License type:

JIRA Software (Data Center)	JIRA Software (Server)
Everything with server plus: <ul style="list-style-type: none"><li>• Active-active clustering for true high availability and uninterrupted access.</li><li>• High performance under high load and at peak times.</li><li>• Disaster recovery.</li></ul>	<ul style="list-style-type: none"><li>• Manage the entire application on your own servers or virtual machines.</li><li>• Deployable to a single server.</li></ul>
Select	✓

Organization: Self

Click on Generate License

License type:

JIRA Software (Data Center)	JIRA Software (Server)
Everything with server plus: <ul style="list-style-type: none"><li>• Active-active clustering for true high availability and uninterrupted access.</li><li>• High performance under high load and at peak times.</li><li>• Disaster recovery.</li></ul>	<ul style="list-style-type: none"><li>• Manage the entire application on your own servers or virtual machines.</li><li>• Deployable to a single server.</li></ul>
Select	✓

Organization: Self

Your instance is:

☒ up and running

☐ not installed yet

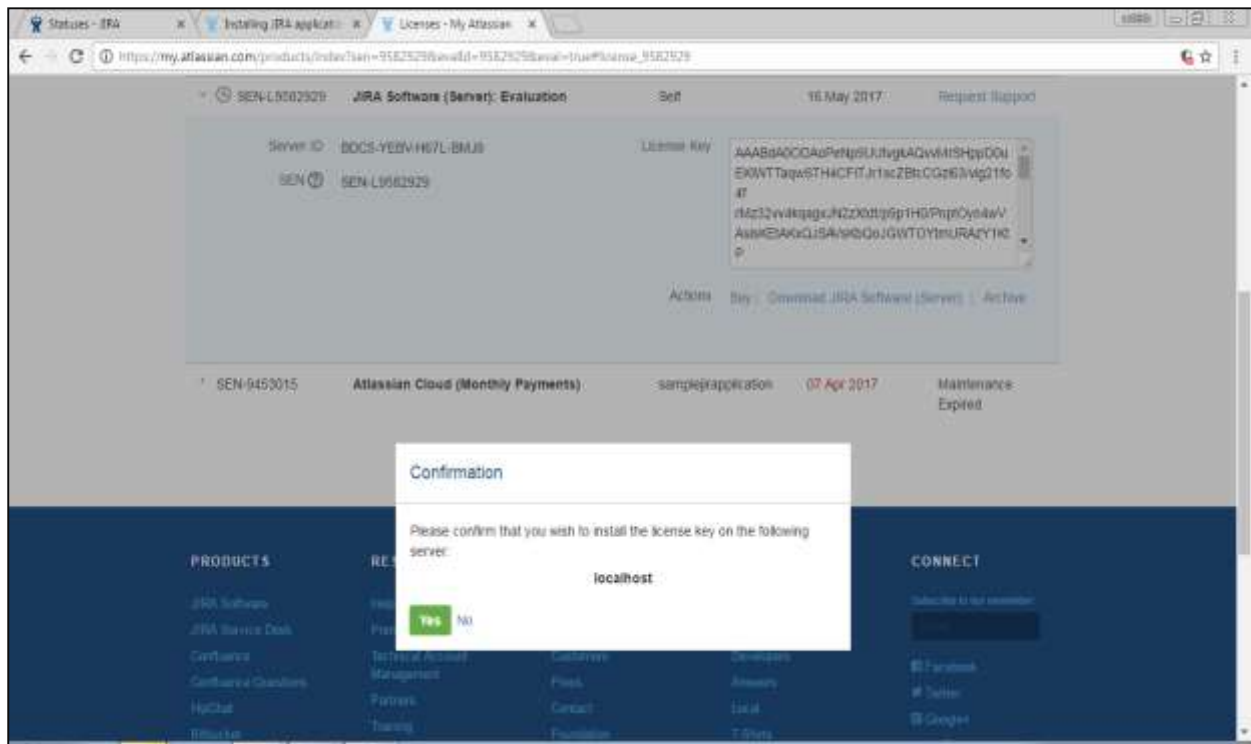
Server ID: BOC5-YEBV-H67L-BMJ8

Please note we only provide evaluation support for 90 days per product.

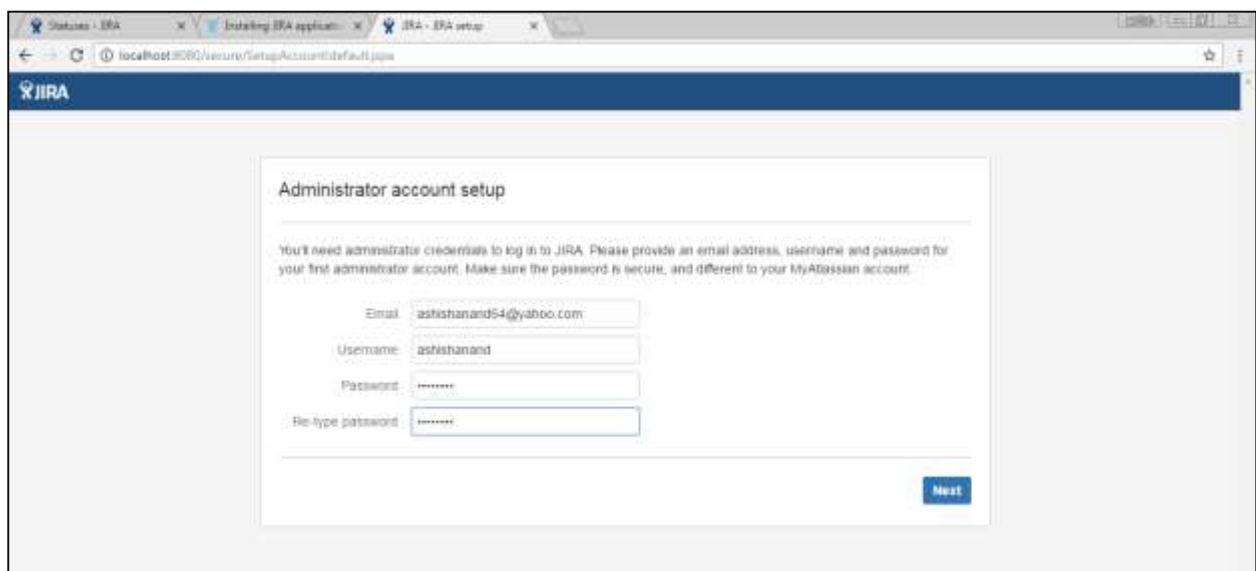
By clicking here you accept the Atlassian Customer Agreement.

Generate License Cancel

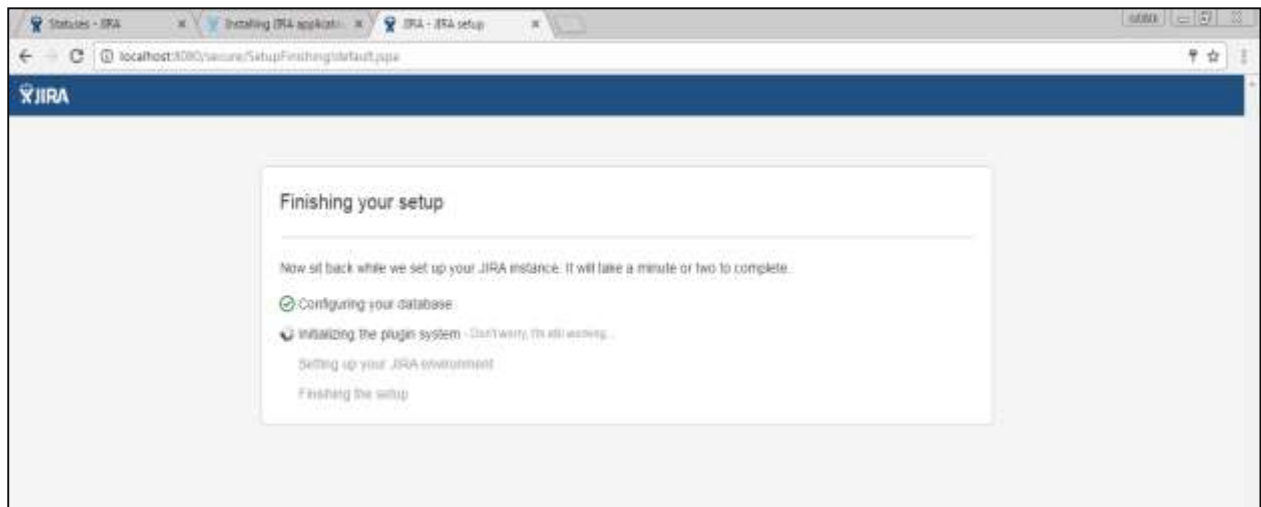
A confirmation pop-up will display as shown in the following screenshot. Click on Yes.



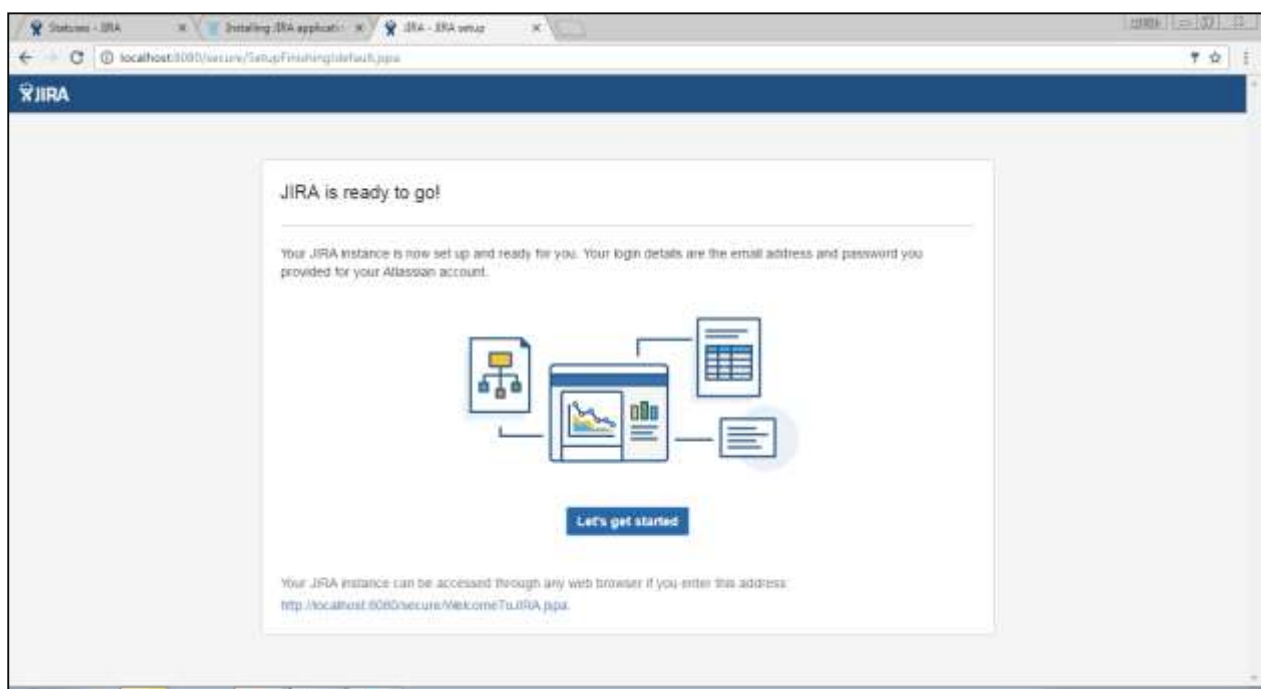
Set up the administration account as displayed in the following screenshot.



JIRA will automatically finish the setting-up as shown below:



Once JIRA finishes the setup and starts running in the server, the user can access it from a browser on any computer with network access to the JIRA server.

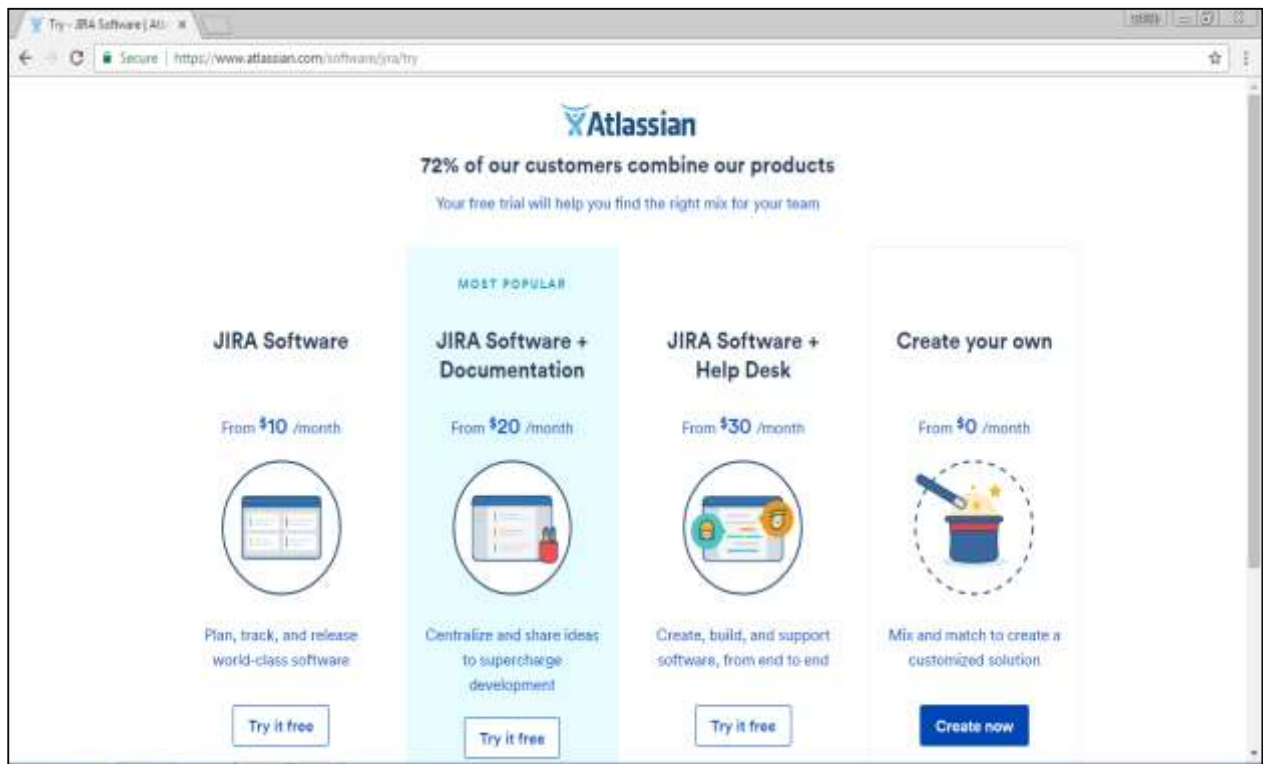




## 6. JIRA – Free Trials Setup

JIRA provides 15 days to 1-month free trials of basic features. JIRA has other plans as well with different advanced features and add-ins. The cost depends on the number of users.

By visiting <https://www.atlassian.com/software/jira/try>, a user can see different available plans for trying purposes.



### Setup for Free Trials

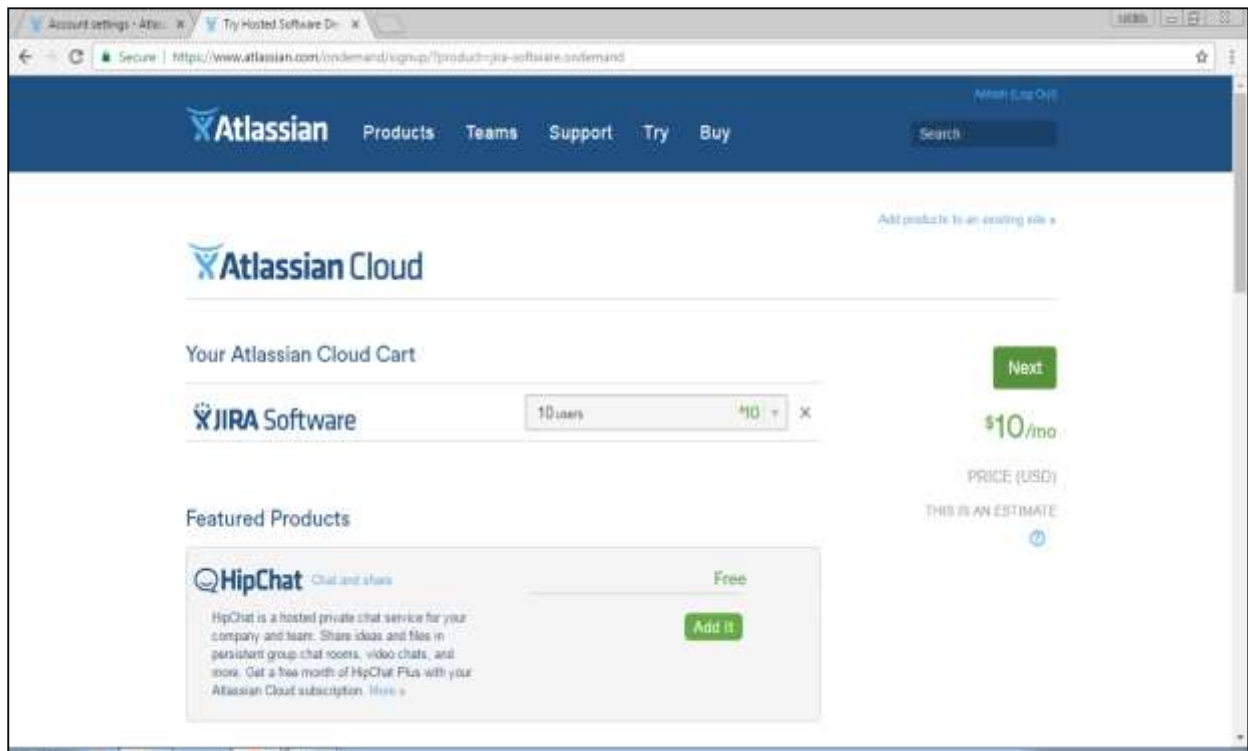
To setup a free trial, the user has to Sign up on the following link – <https://id.atlassian.com/signup?application=&tenant=&continue> or login if he already has an account.

The following screenshot shows required fields to sign up in Atlassian account.

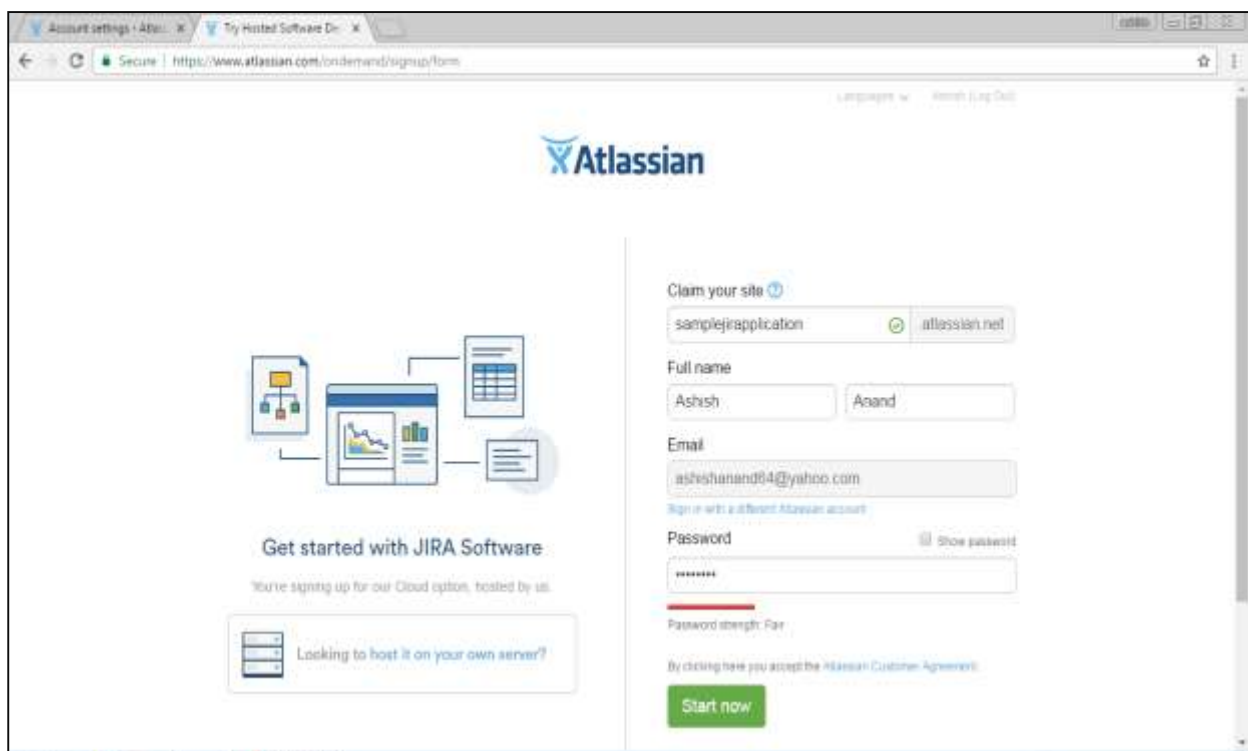
The user has to log into the email account and verifies the account by clicking on the link sent by JIRA-Atlassian. The next step is to go to <https://www.atlassian.com/software/jira/try> and click on **Create now** button, which is at the bottom right hand of the webpage.

The following screenshot shows different plans available for trial of JIRA.

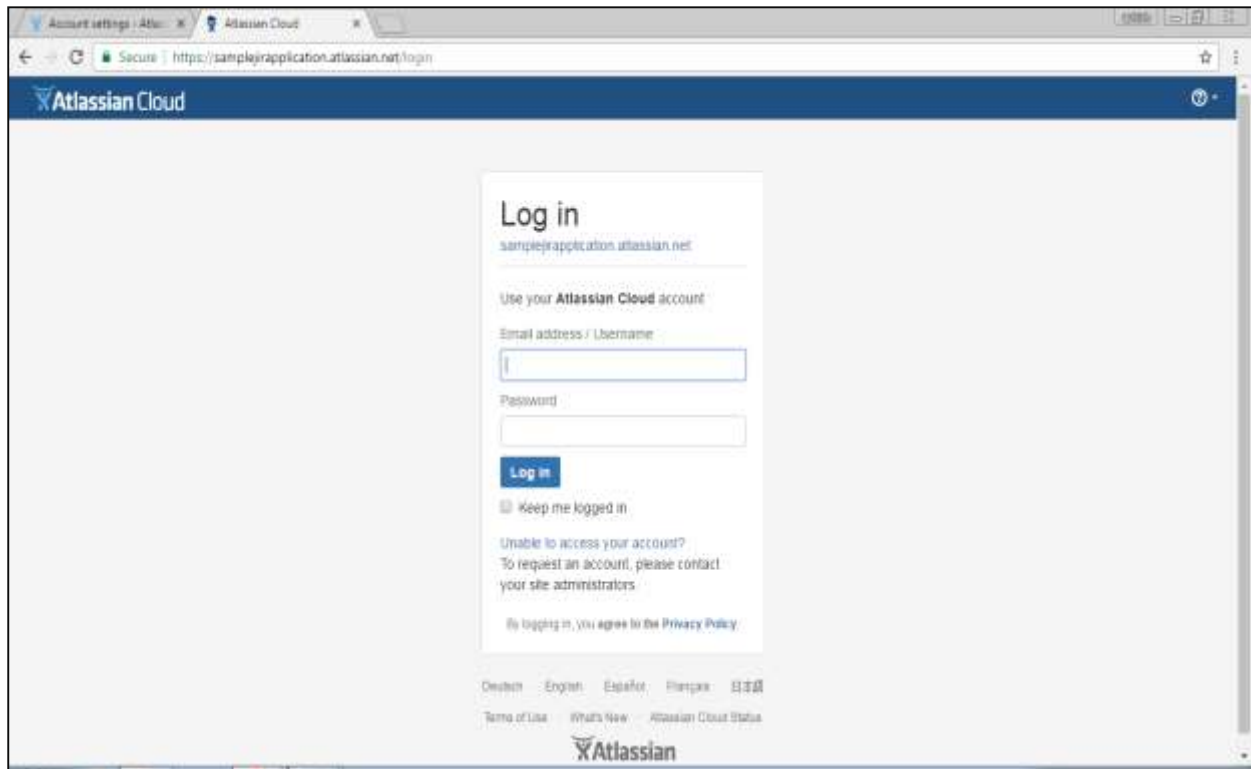
The following screenshot shows the details of the chosen plan for a free trial.



Once the user fills in all the details along with the sample website name, user has to click on the **Start now** button. The following screenshot shows how to claim your site and provide your credentials to start it.

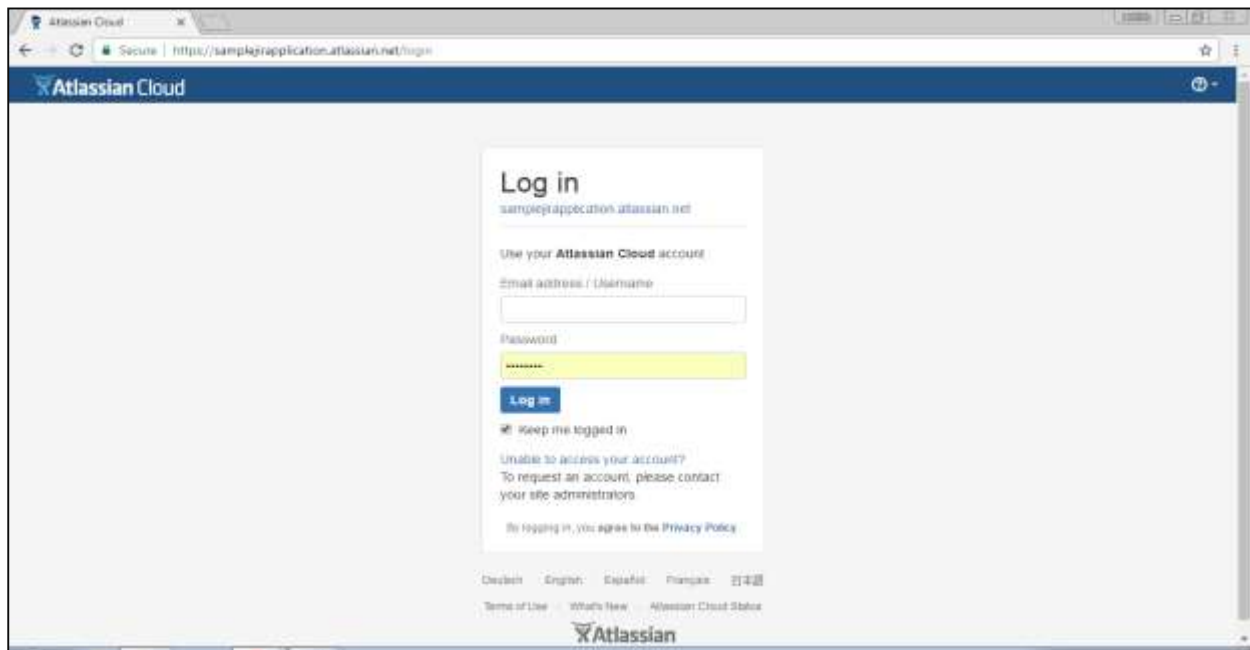


It will take a few minutes to start the requested sample JIRA website. Once it is done, the JIRA login page will display and the user can see the given sample website name in the browser's address bar. The user can now directly access this link to navigate to JIRA. The following screenshot shows the login page of JIRA.



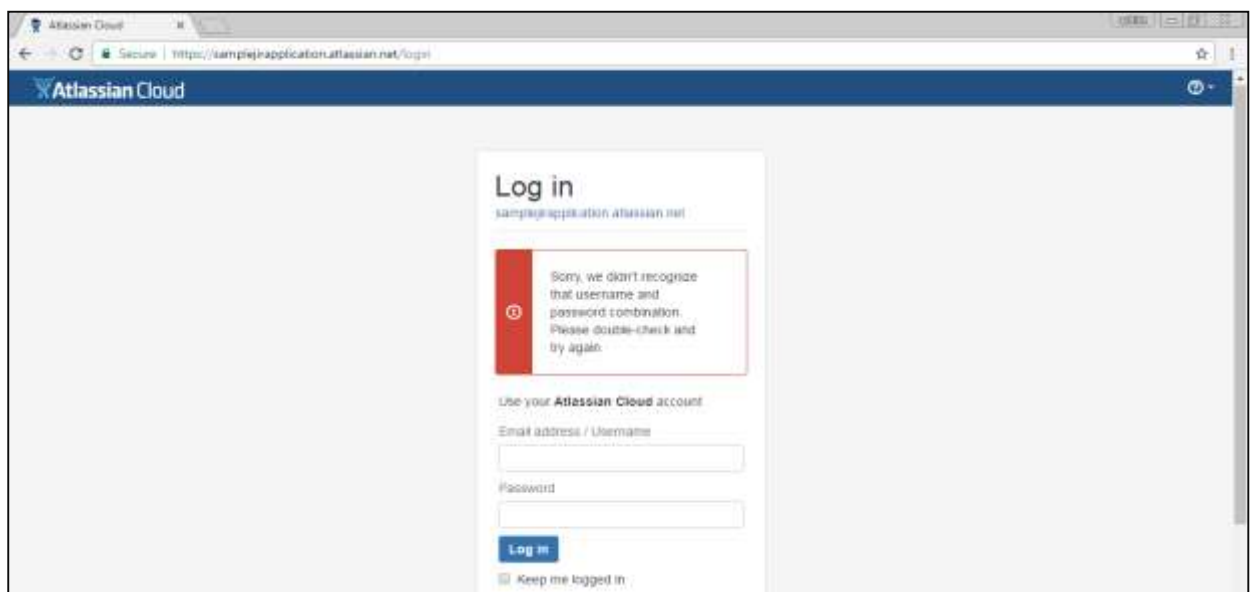
## 7. JIRA – Login

To login to JIRA, go to your sample website. It will open a login page. Fill in your registered email address/username and Password. Click on the Login button. The following screenshot shows how to login into JIRA using your credentials:

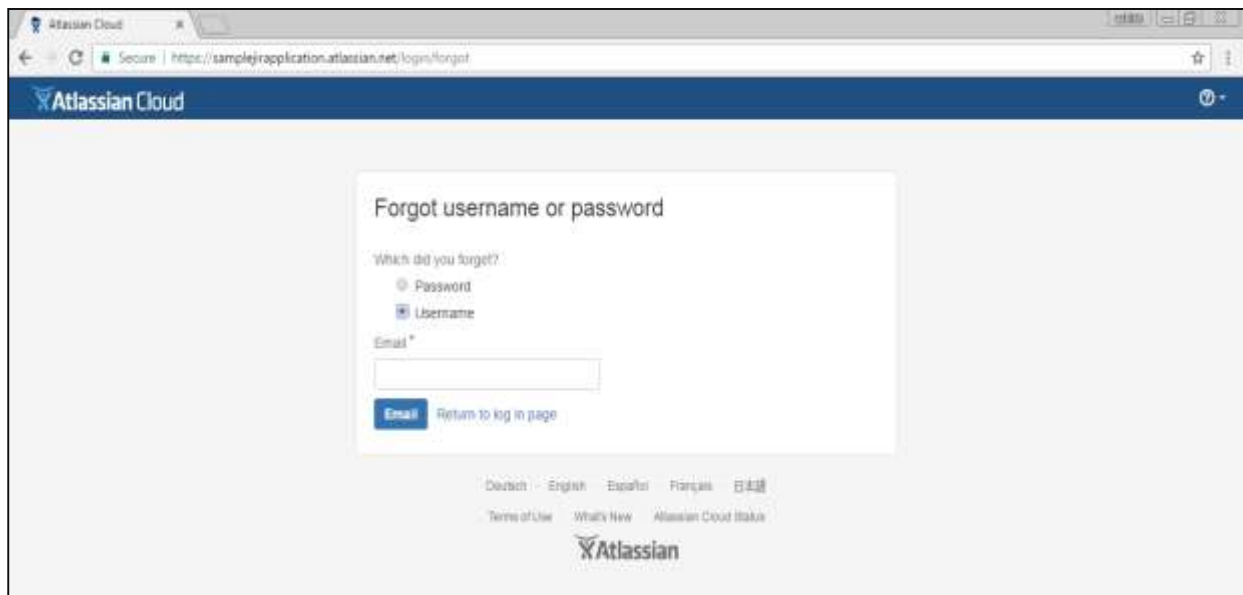


### Common Login Errors

In case of any unsuccessful login, an error message displays. The following screenshot shows the error message a user receives, if the credentials are not matching or incorrect.



To rectify this scenario, click on "Unable to access your account", then select the appropriate option and fill in the details. Click on email. The following screenshot shows how to recover the username, in case the user has forgotten it.

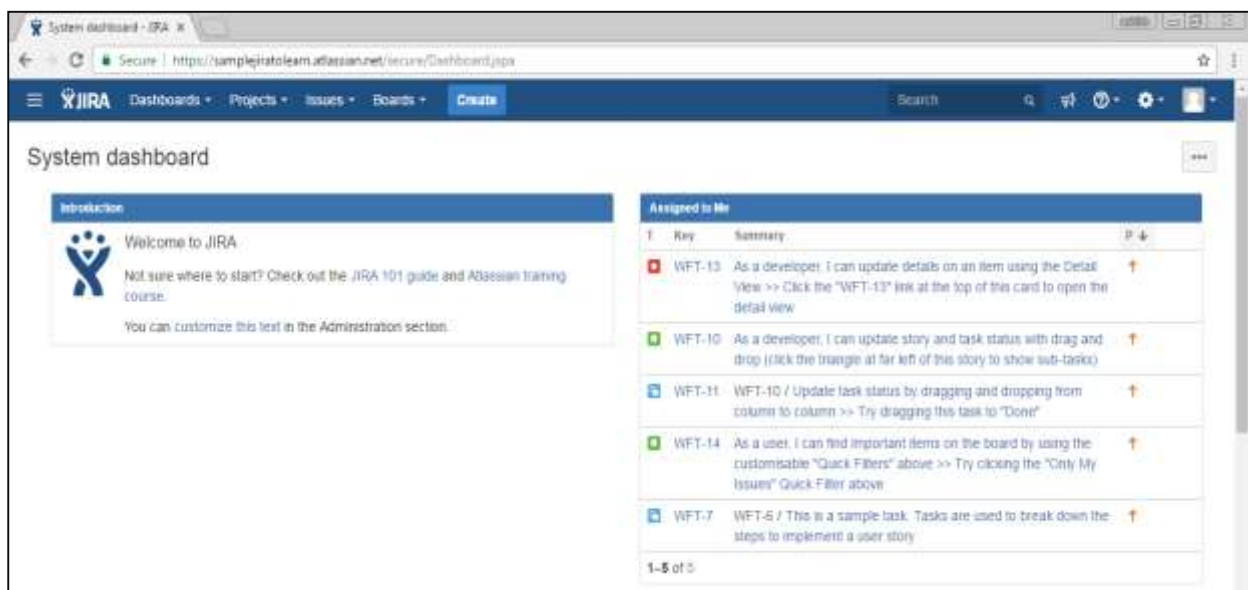


The user will get an email with the details of his username or a link to reset the password.

## Successful Login

On a successful login, the system dashboard will display if the account is associated with any project by the admin, or if a user can create a sample project as explained in the earlier chapters.

The following screenshot displays the welcome page/dashboard of JIRA on a successful login.



## 8. JIRA – Dashboard

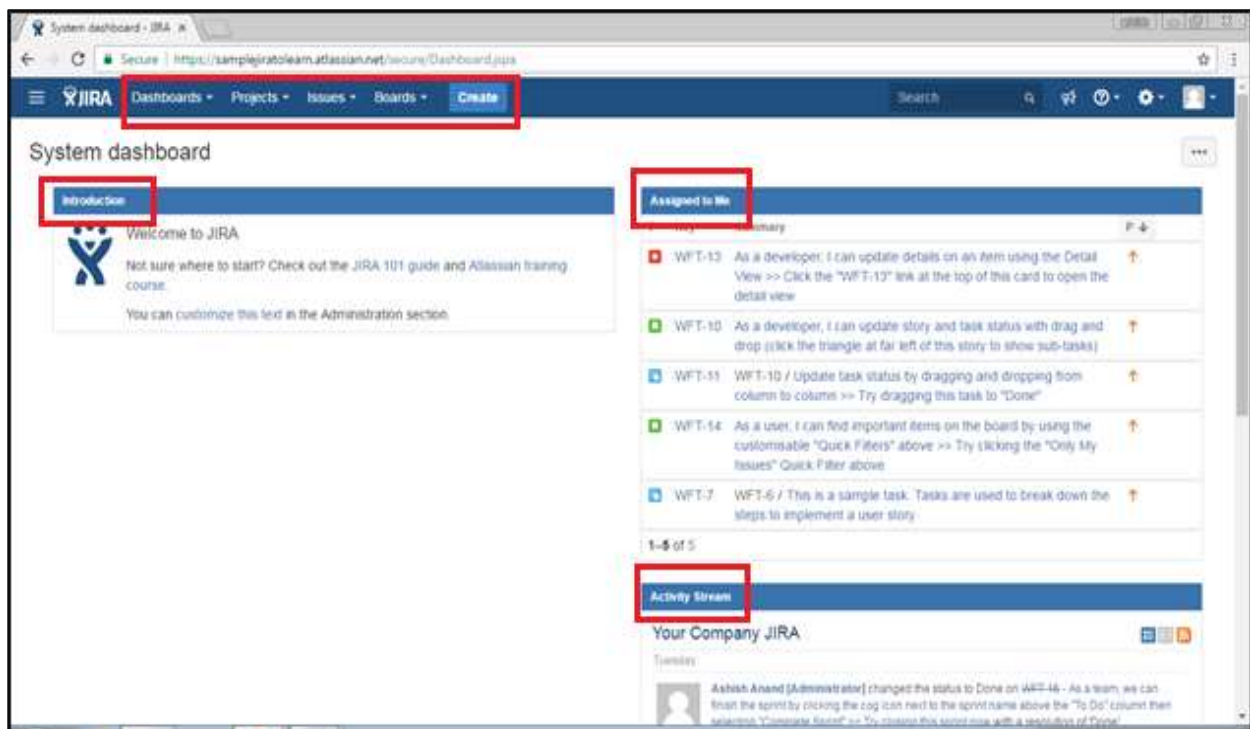
After logging into JIRA, the Dashboard is the first page that shows up. The Dashboard is customized by the Admin. Based on the roles, the admin can set the access of JIRA. Even the admin has the right to change colors and the logo of JIRA.

### Important Points of the Dashboard

Following are some of the most significant points the users should understand before using the JIRA Dashboard.

- The navigation bar, present at the top of the JIRA page, will be the same across all the pages/screens of JIRA. Dashboard, Projects, Issues, Boards and Create are the main links. These links have many sub-links to navigate other functionalities.
- Navigation bar contains links that provides a quick access to the most useful functions of JIRA.
- Just under navigation bar, there is a System Dashboard.
- The information provided in the system dashboard area can be customized by the Admin.
- By default, it has three main sections – **Introduction**, **Assigned to Me** (displays Issues list assigned to users) and **Activity Stream** (Activities done by the users).

The following screenshot shows the overview of the Dashboard page of JIRA:



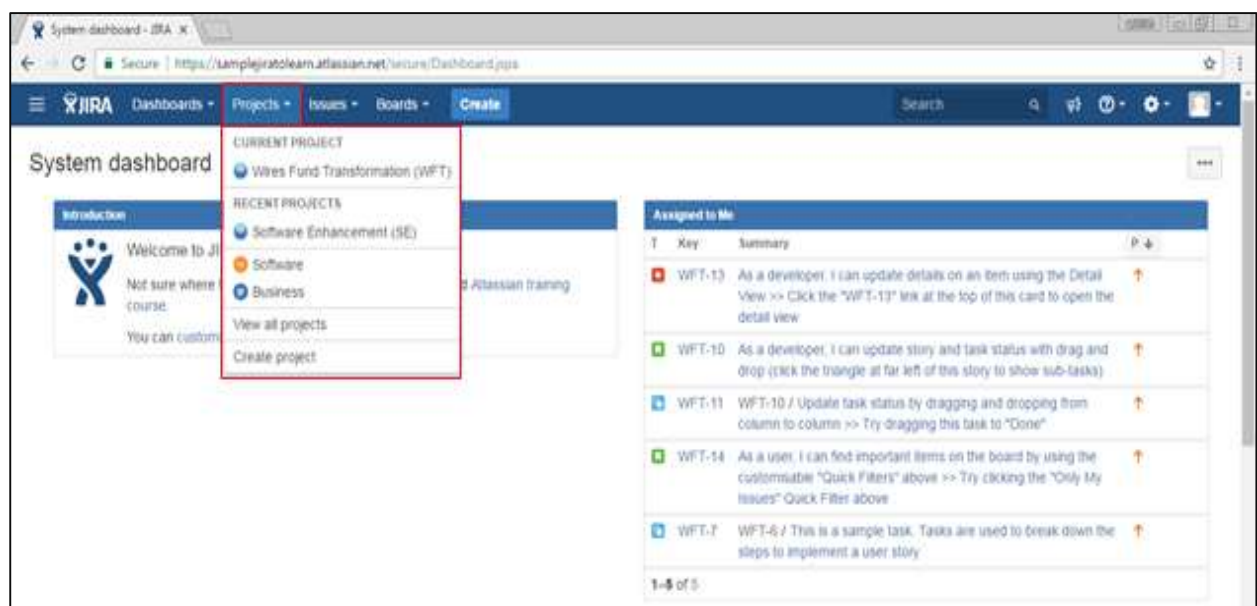


## Types of Projects

The Projects link has several sub-links, which are explained in detail for better understanding.

- **Current Project:** It displays the name of the Project where the user is currently in or is viewing the dashboard of the project. By clicking at Project name, it will display the list of issues associated with the project.
- **Recent Project:** It displays the name of the recent project that the user has accessed, if exists, where the user can navigate by clicking on the project listed under this header.
- **Software:** It is the sub-link to navigate the list of projects, which are listed in the Project Type as Software.
- **Business:** It is also a project-type. By clicking here, it will display the list of business project types.
- **View all Projects:** It displays all the projects, which are associated with the logged in user.
- **Create Project:** This link is usually accessed by the Admin or it depends on various roles. If this link is visible, a user can create a new project by following the instructions given there.

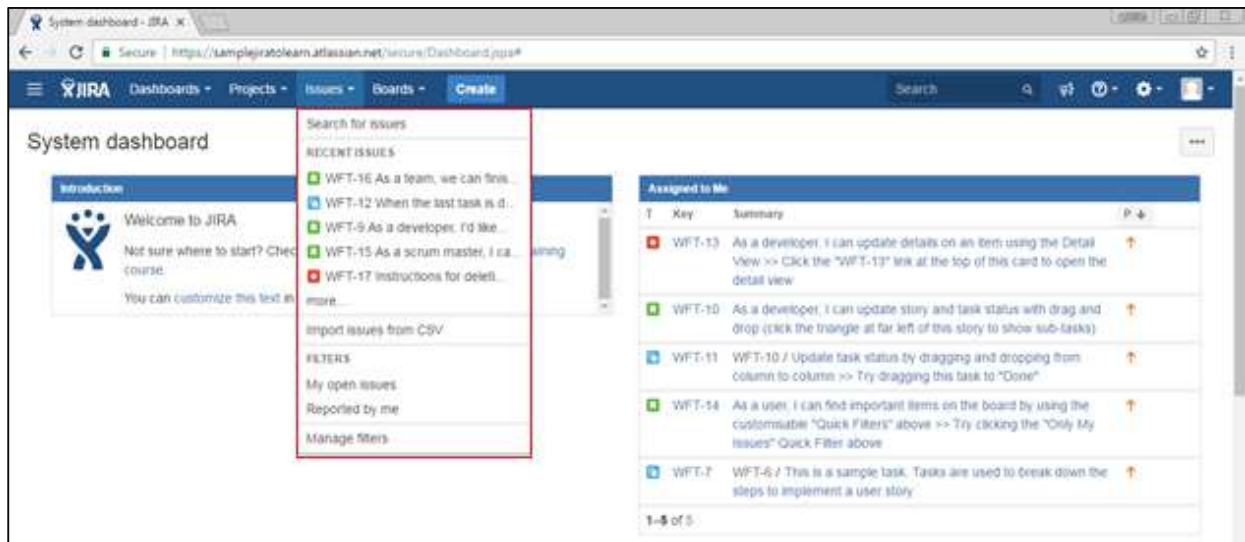
The following screenshot shows the different sub-links under the Project category.





## Types of Issues

It has many sub links to access other functionalities. The following screenshot shows different available sub-links under Issue navigation.



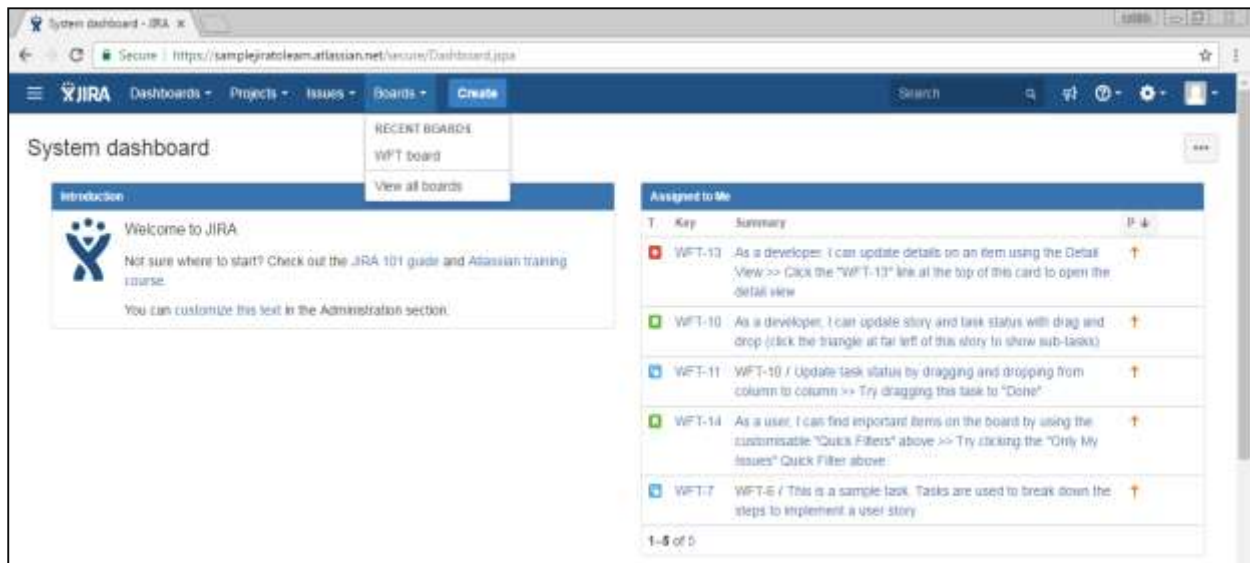
- **Search for Issues:** It navigates to the search page, where the user can provide search criteria to narrow down the results.
- **Recent Issues:** It displays the list of issues that are recently viewed by the user.
- **Import issue from CSV:** This feature allows the user to import the details of issues by uploading a CSV file and mapping the fields.
- **My open issues:** It is the filter section, which displays issues those are open and assigned to the logged-in user.
- **Reported by me:** This filter section displays the issues, which are already created by the logged-in user.
- **Manage filters:** It helps to customize the filter and narrow down the results. It displays any saved filters/ favorites filters.

## Types of Boards

Boards are showcase of process that is followed by Project. It could be the most famous Agile Board if the project is following the agile methodology or it might be the Kanban board as well.

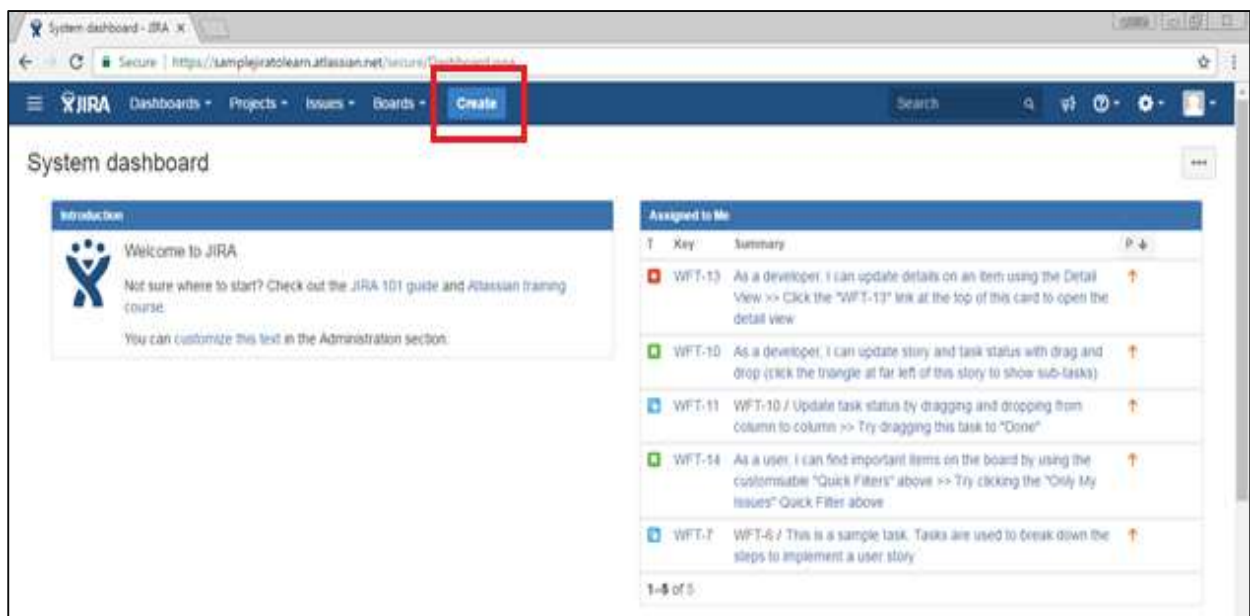
- **Recent Board:** It displays the recent project board accessed by the user.
- **View all boards:** It displays all available project boards.

The following screenshot shows the different sub-links available under the board section.

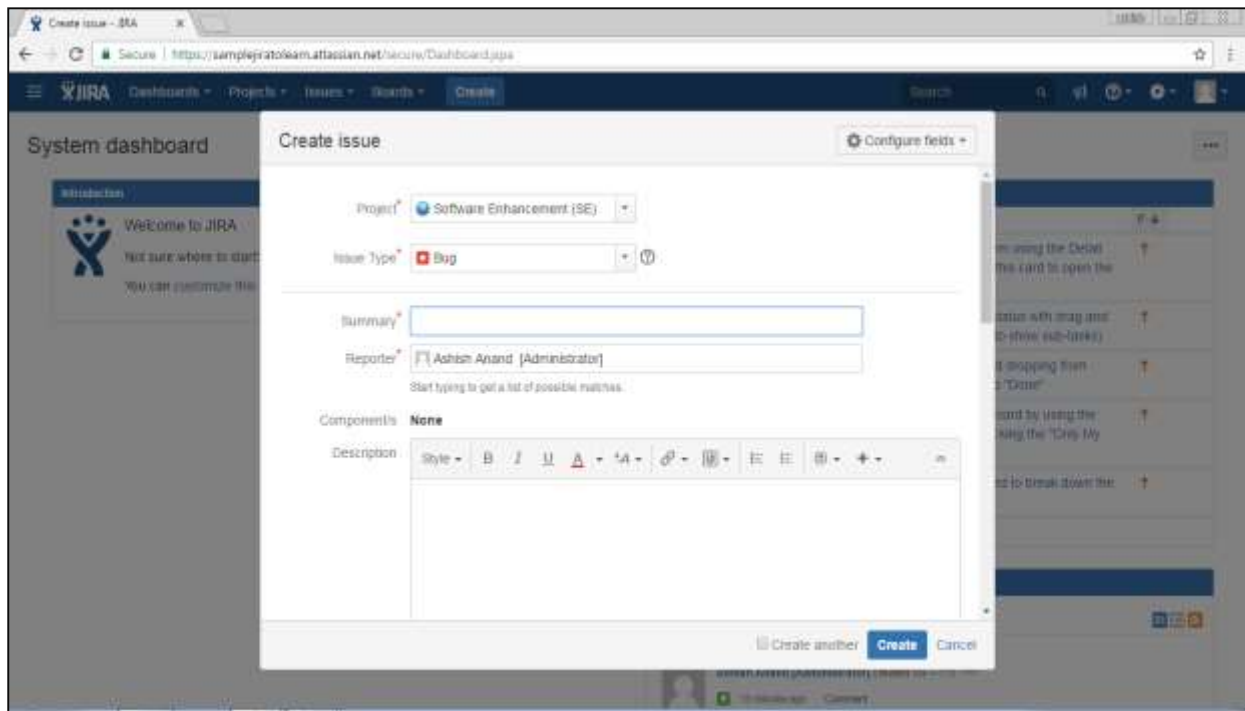


## The Create Button

By clicking on the Create button, it displays the **create form** to log an issue.



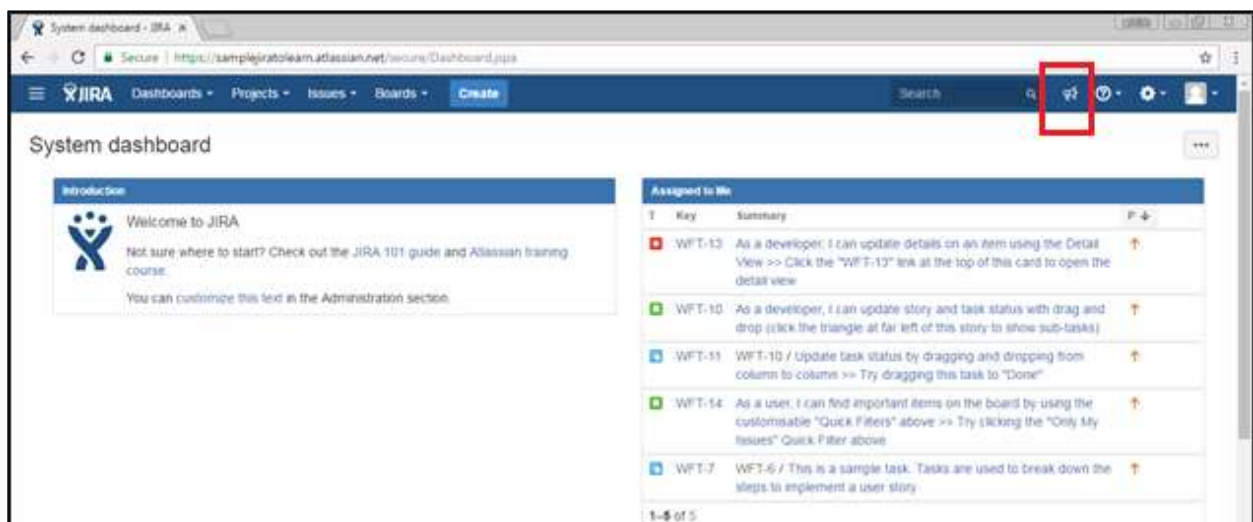
The following screenshot shows required fields and other fields to create an issue:



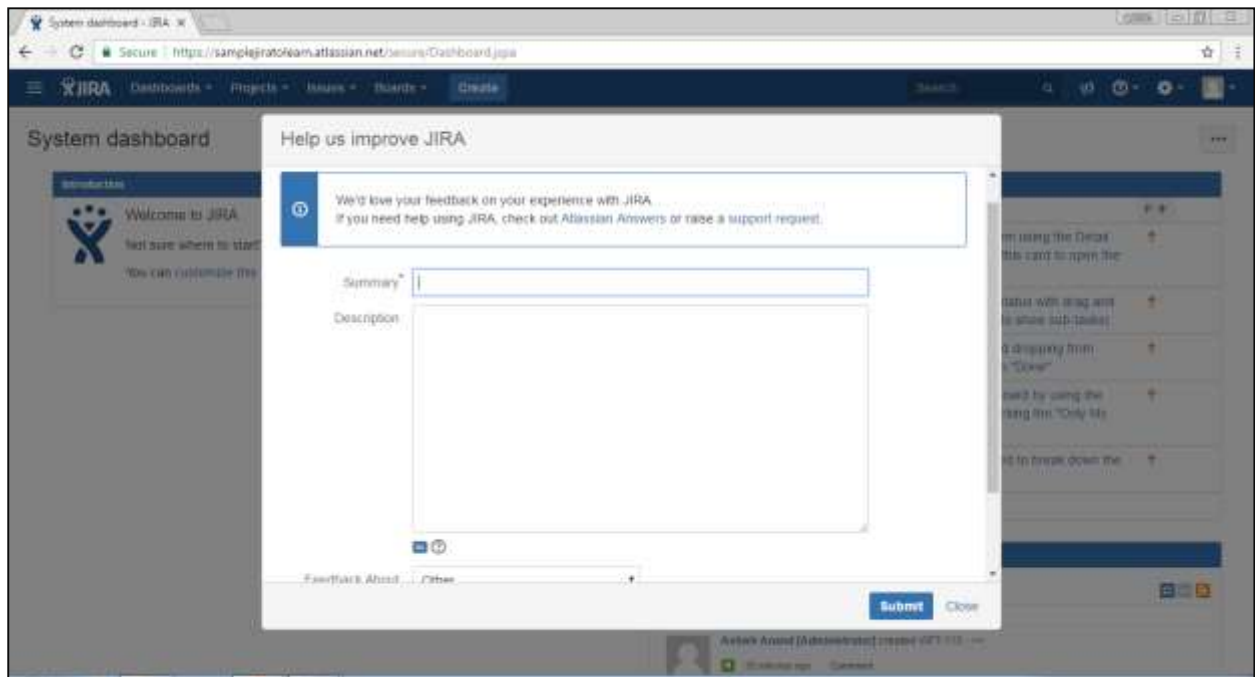
## The Feedback Link

There is a feedback link at the right side of the navigation bar (as highlighted in the following screenshot). By clicking on link, user gets a form where he can provide feedback by entering Summary, Description, Name and email.

The following screenshot shows the location of the Feedback link present in the Dashboard.



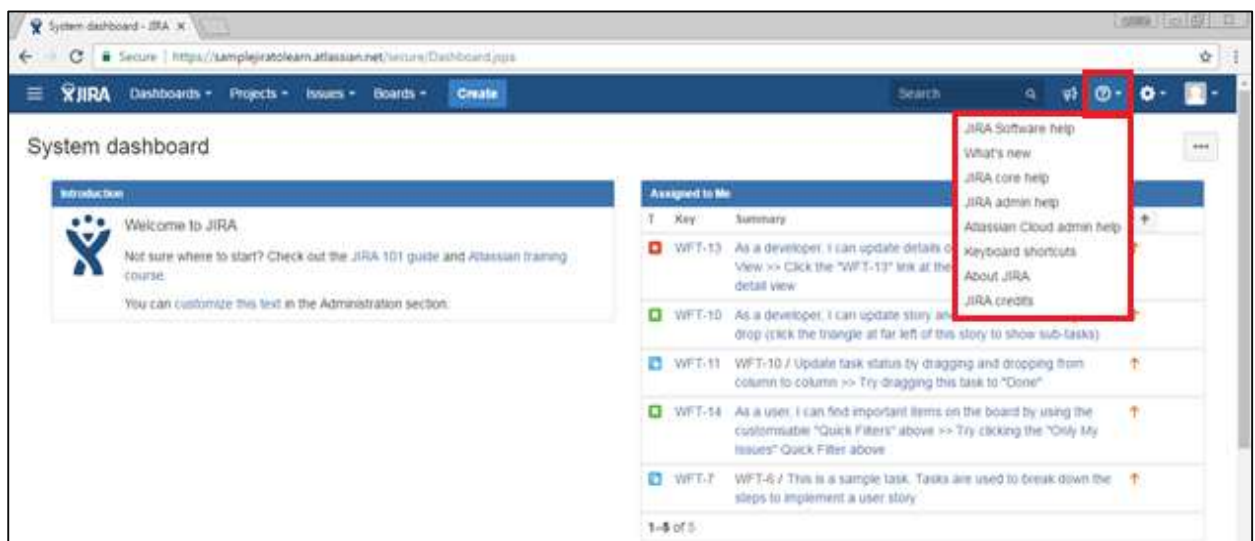
The following screenshot shows the required and optional fields to provide feedback.



Once all the fields are filled, click on Submit, it successfully posts the feedback.

## The Help Link

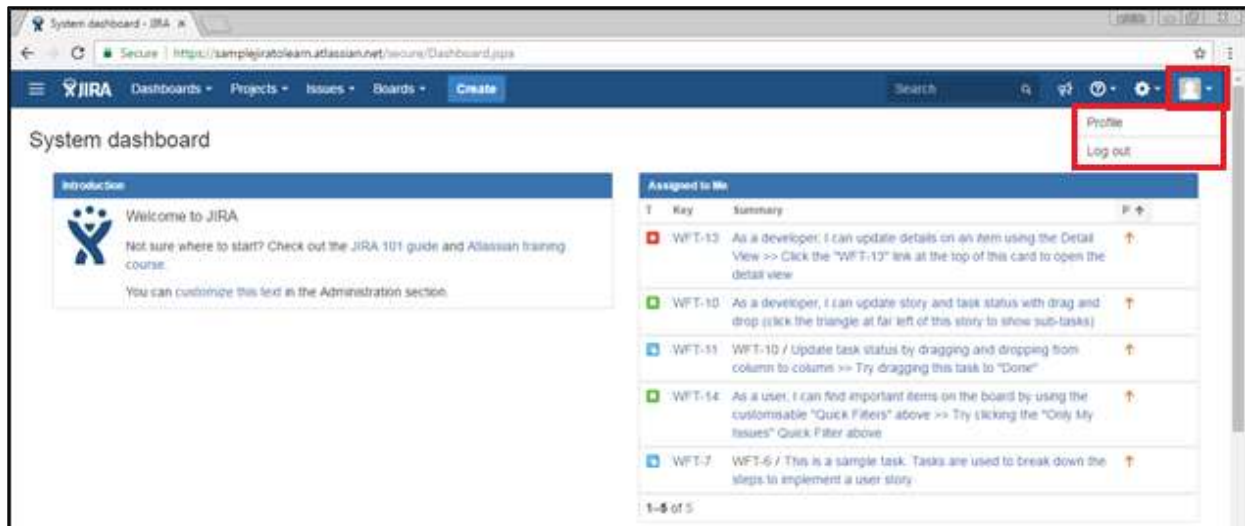
The Help link provides different useful documentation about JIRA. It provides the details of JIRA as well by clicking on "About JIRA". Similarly, this link also provides new release features by clicking on "What's new". Keyboard shortcuts have much useful keyboard navigation for users that saves time. The following screenshot shows the Help link and different sub-links available in it.



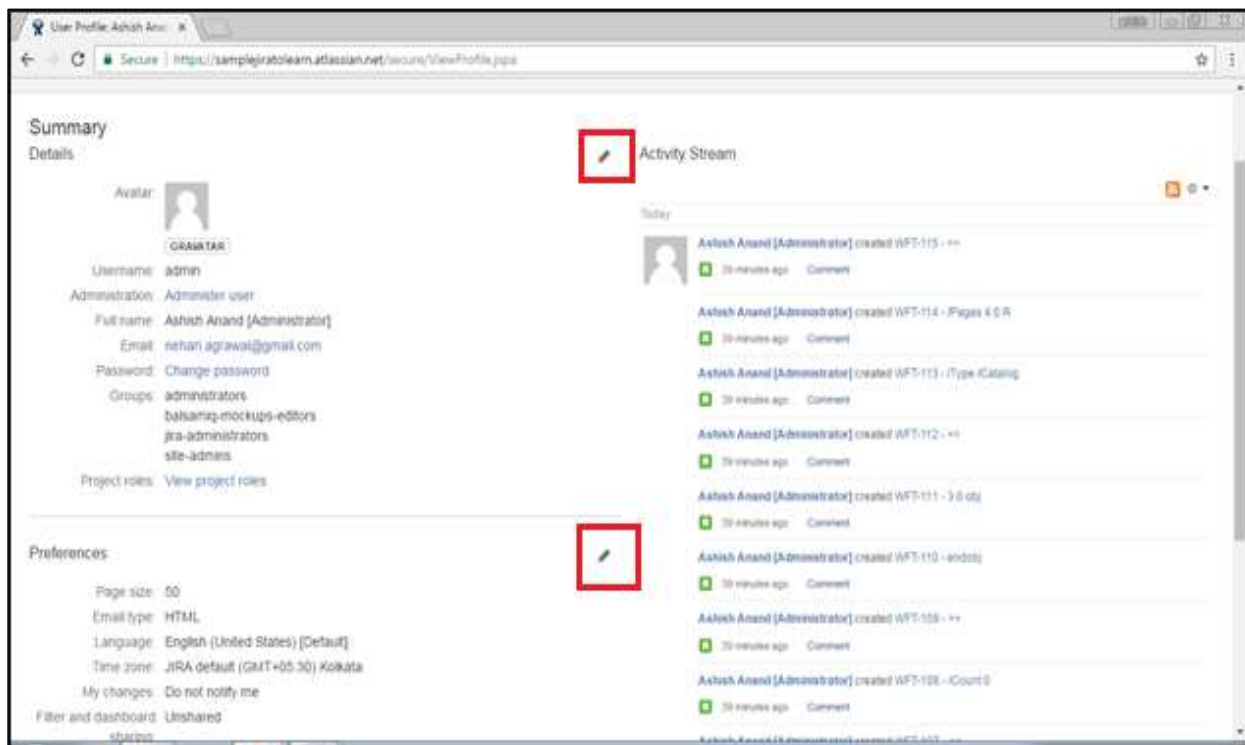
## User Profile Button

By clicking on the profile link, the user can view his profile details and manage this section. By clicking on Logout, the user will get back to the login page and will not be able to access the project details without logging in again.

The following screenshot shows available functionality under User-Profile section:



By clicking on the edit symbol, the user will be able to edit profile details like – Summary Details, Preferences, etc. The following screenshot shows how to edit the profile by clicking on the Edit (highlighted in red outline) icon at each section:



On the right side, the user can see the activity stream performed by the logged in user.



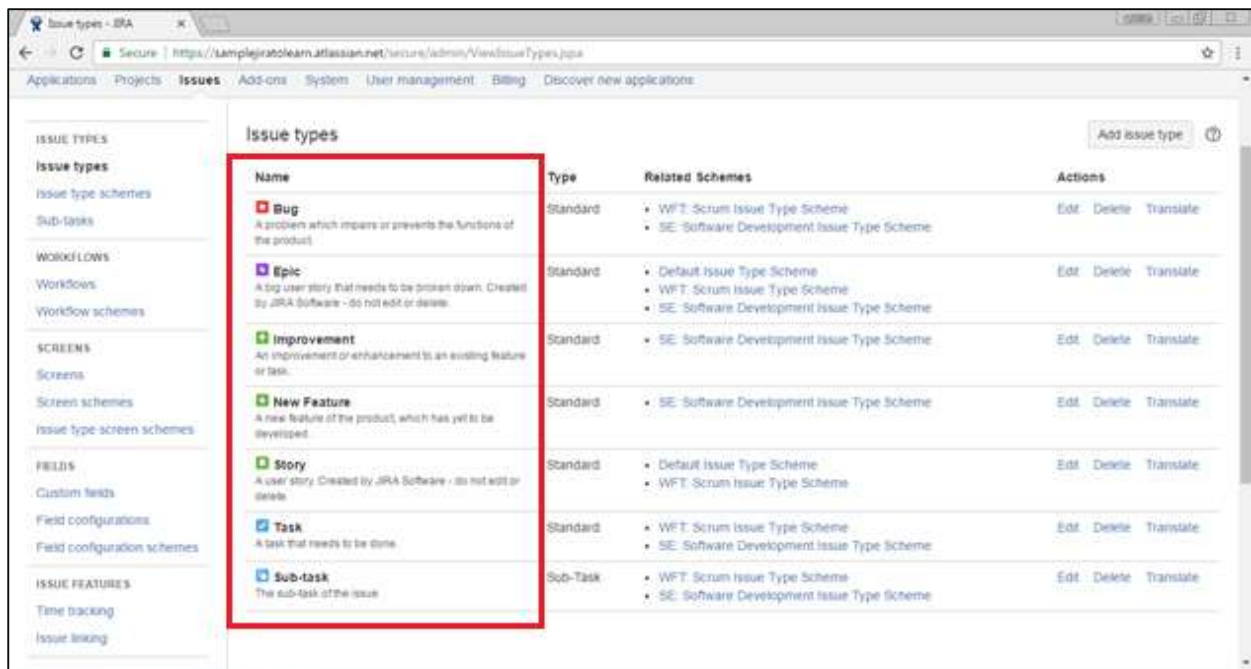
## 9. JIRA – Issue Types

Since JIRA tracks all the tasks, the sub-tasks or even a work as an Issue, there are several types of Issues to identify the work and categorize the similar issues.

An Issue is classified as follows:

- **Sub-Task:** This is the sub-task of an issue. In a logged issue, there can be different tasks to resolve it, which are called as sub-tasks.
- **Bug:** A problem that impairs or prevents the functions of the product.
- **Epic:** A big user story that needs to be broken down. Created by JIRA Software - do not edit or delete.
- **Improvement:** An improvement or enhancement to an existing feature or task.
- **New Feature:** A new feature of the product, which is yet to be developed.
- **Story:** A user story. Created by JIRA Software - do not edit or delete.
- **Task:** A task that needs to be done to achieve team's goal.

If a user logs in as Admin and navigate to Settings → JIRA Administrator → Issues, all the listed issue types will display. The following screenshot shows all the available issue types in JIRA.

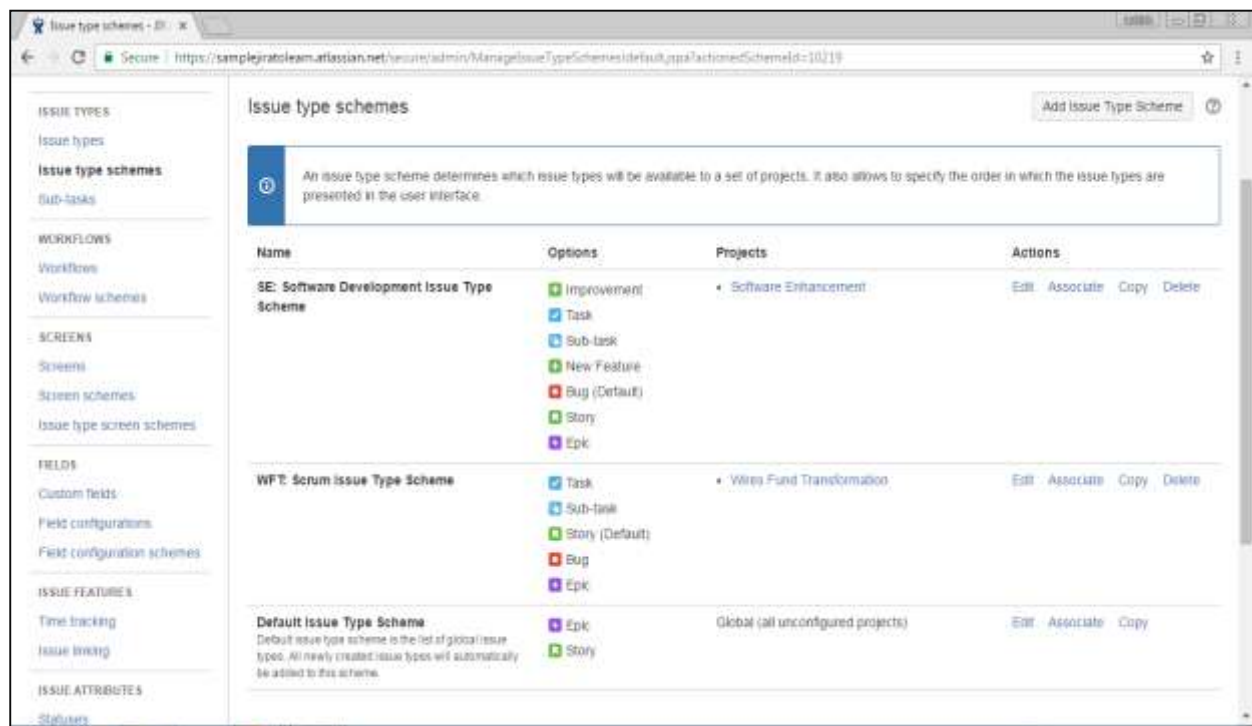


Name	Type	Related Schemes	Actions
<b>Bug</b> A problem which impairs or prevents the functions of the product.	Standard	• WFT: Scrum Issue Type Scheme • SE: Software Development Issue Type Scheme	Edit Delete Translate
<b>Epic</b> A big user story that needs to be broken down. Created by JIRA Software - do not edit or delete.	Standard	• Default Issue Type Scheme • WFT: Scrum Issue Type Scheme • SE: Software Development Issue Type Scheme	Edit Delete Translate
<b>Improvement</b> An improvement or enhancement to an existing feature or task.	Standard	• SE: Software Development Issue Type Scheme	Edit Delete Translate
<b>New Feature</b> A new feature of the product, which has yet to be developed.	Standard	• SE: Software Development Issue Type Scheme	Edit Delete Translate
<b>Story</b> A user story. Created by JIRA Software - do not edit or delete.	Standard	• Default Issue Type Scheme • WFT: Scrum Issue Type Scheme	Edit Delete Translate
<b>Task</b> A task that needs to be done.	Standard	• WFT: Scrum Issue Type Scheme • SE: Software Development Issue Type Scheme	Edit Delete Translate
<b>Sub-task</b> The sub-task of the issue.	Sub-Task	• WFT: Scrum Issue Type Scheme • SE: Software Development Issue Type Scheme	Edit Delete Translate

## Issue Type Schemes

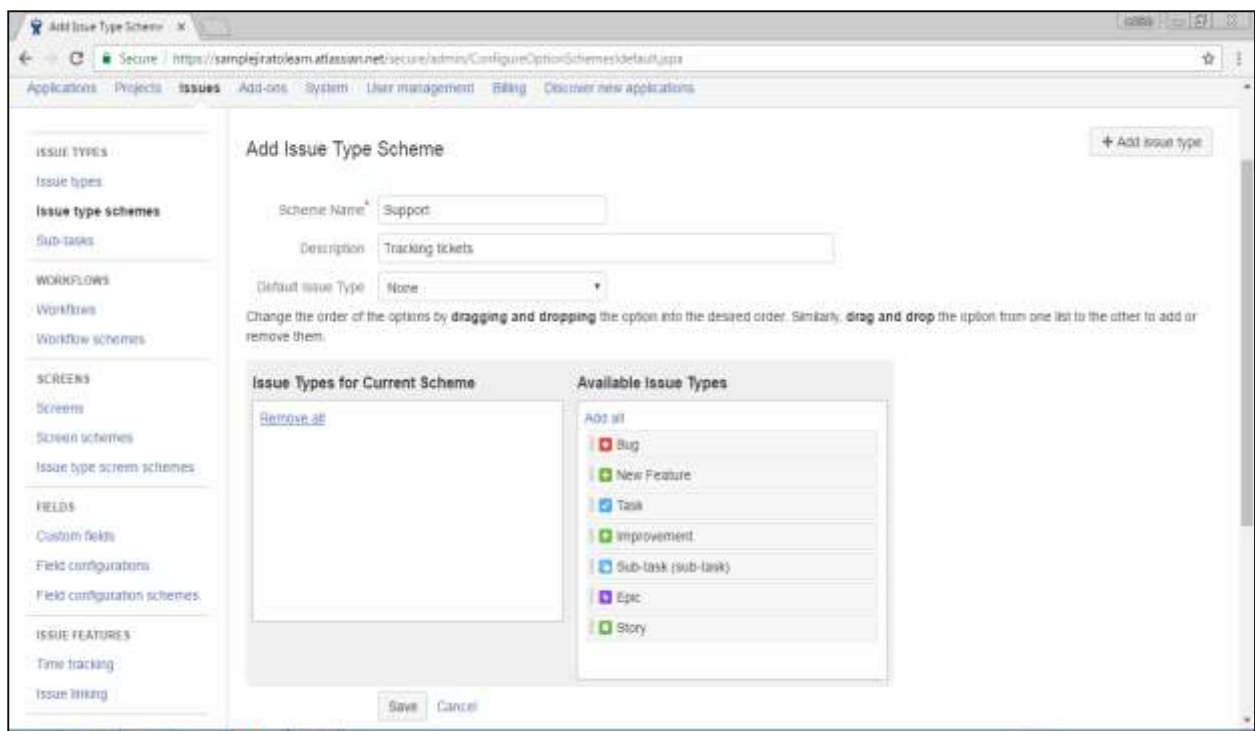
An issue type scheme determines which issue types will be available to a project or set of projects. It also manages specifying the order in which the issue types will present in the user interface of JIRA, while creating an Issue. An issue type scheme generates as soon as the project is added in the JIRA.

Here, one scheme is by default named as the Default Issue Type Scheme and others are project schemes. The default issue type scheme is the list of global issue types. All newly created issue types will automatically be added to this scheme. The following screenshot shows Issue type schemes of different projects.

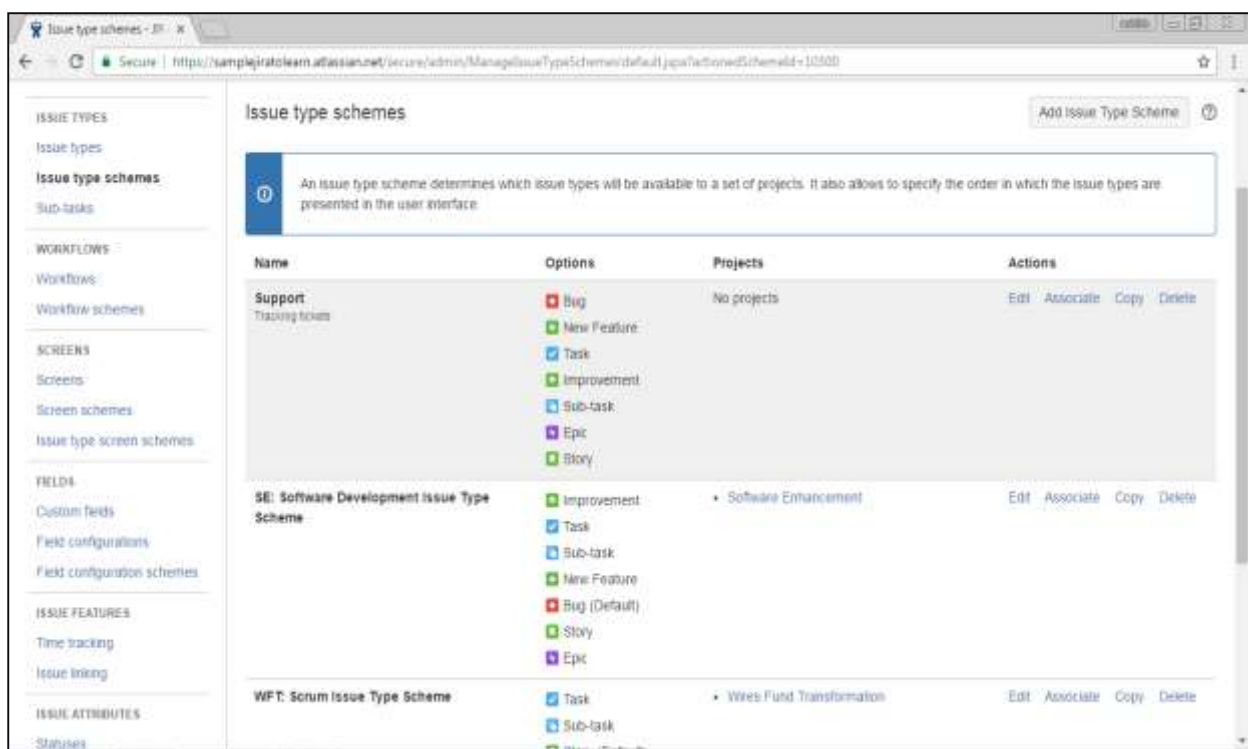


By clicking on the Add Issue Type Scheme button at the top right hand corner, the user can add a user defined scheme.

Enter the Name, Description and Select the Issue Type for the Current scheme from the Available issue type list. The following screenshot shows how to add a new type schema by providing the required and optional fields.



Click on Save. The new schema will appear in the list. The Following screenshot shows how the page display after adding a new Issue Type schema:



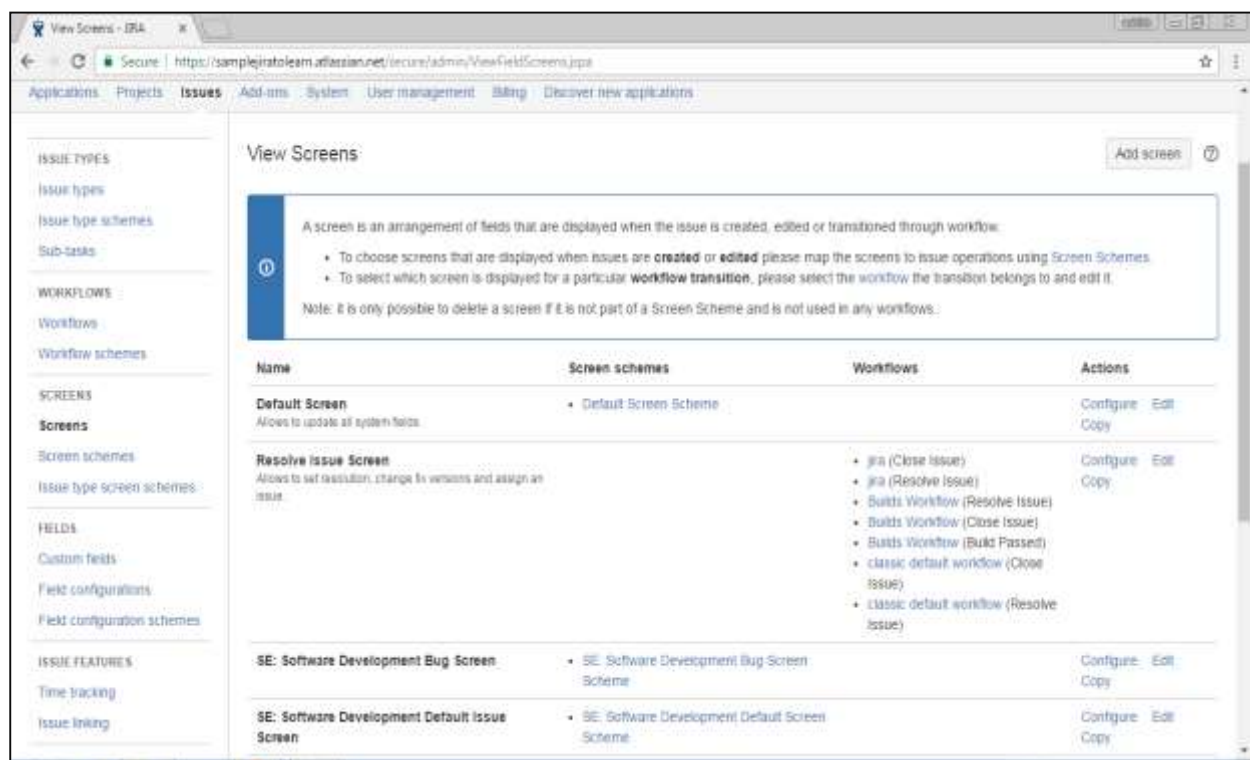
By clicking on Edit, the user can edit the details. By clicking on Associate, the user can associate this scheme to a project. Copy and Delete is used for copying and deletion of the same scheme.



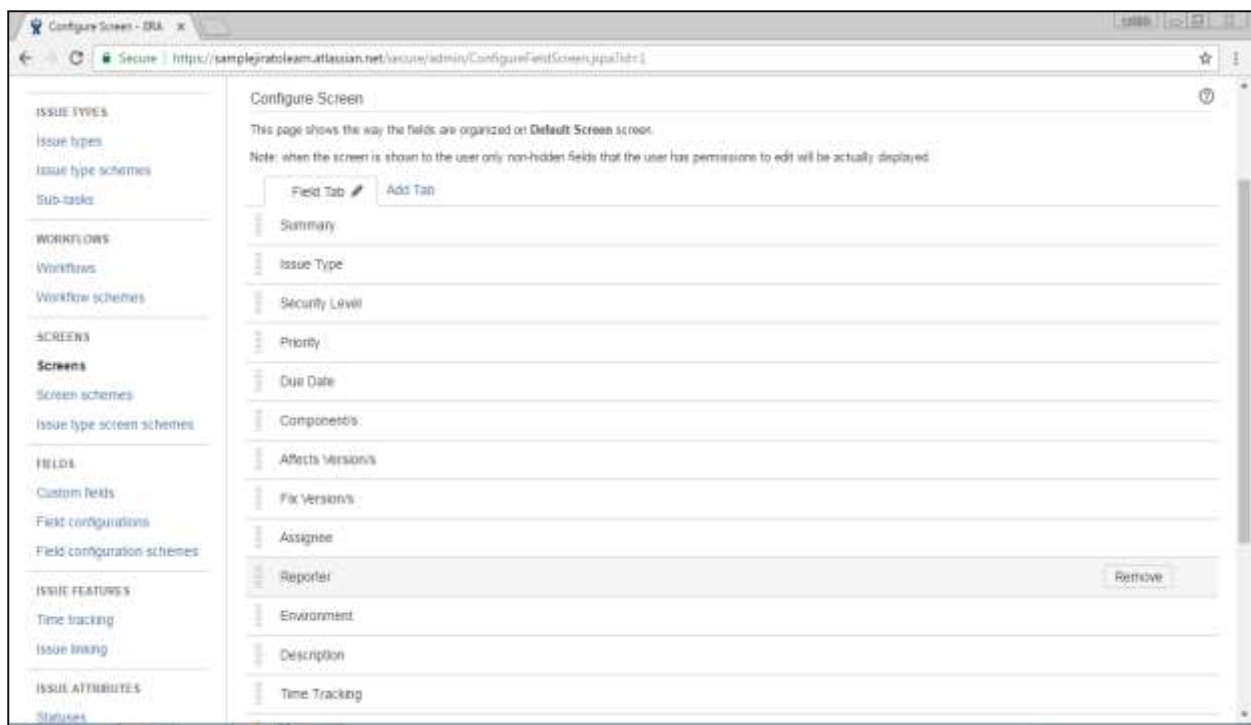
# 10. JIRA – Screens

## View Screen

It is the arrangement and representation of fields to display in UI whenever a new issue is created or existing issues are modified and issue transitioned through one status to another. If a user logs in as Admin and navigate to Settings → Issues → Screens, he will be able to see all the available screens. The following screenshot shows the available screen for different projects.

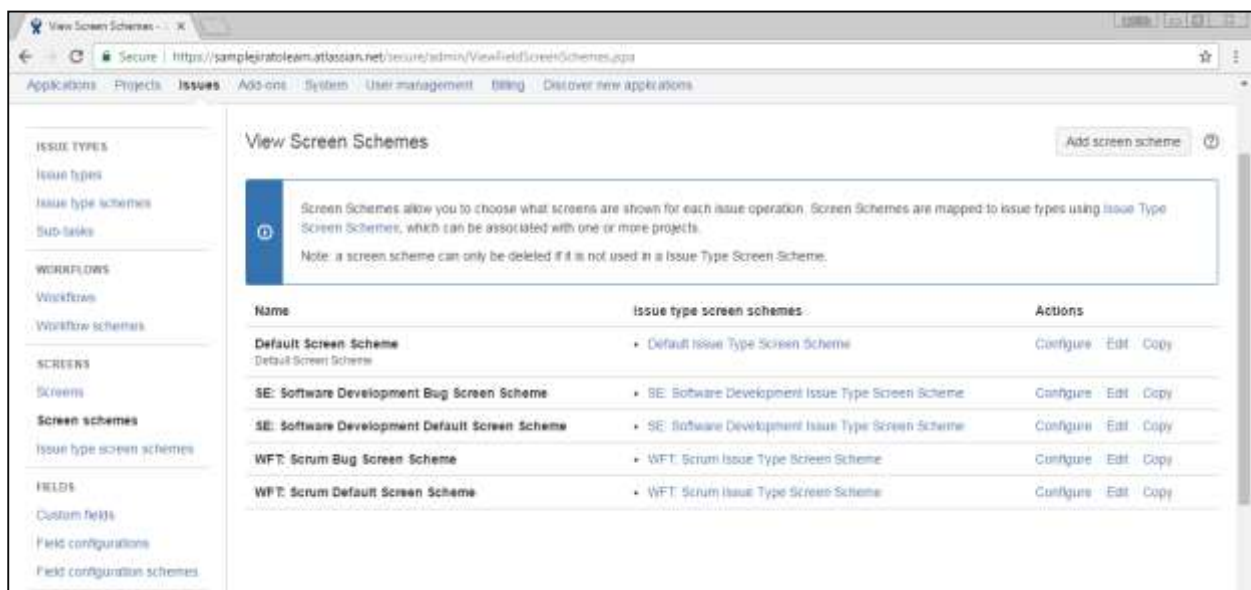


By clicking on configure, the user will be able to see all the available fields with this screen. Whereas, in the organized/arranged way of order, it will display at the UI. The following screenshot shows how to configure the screen fields.

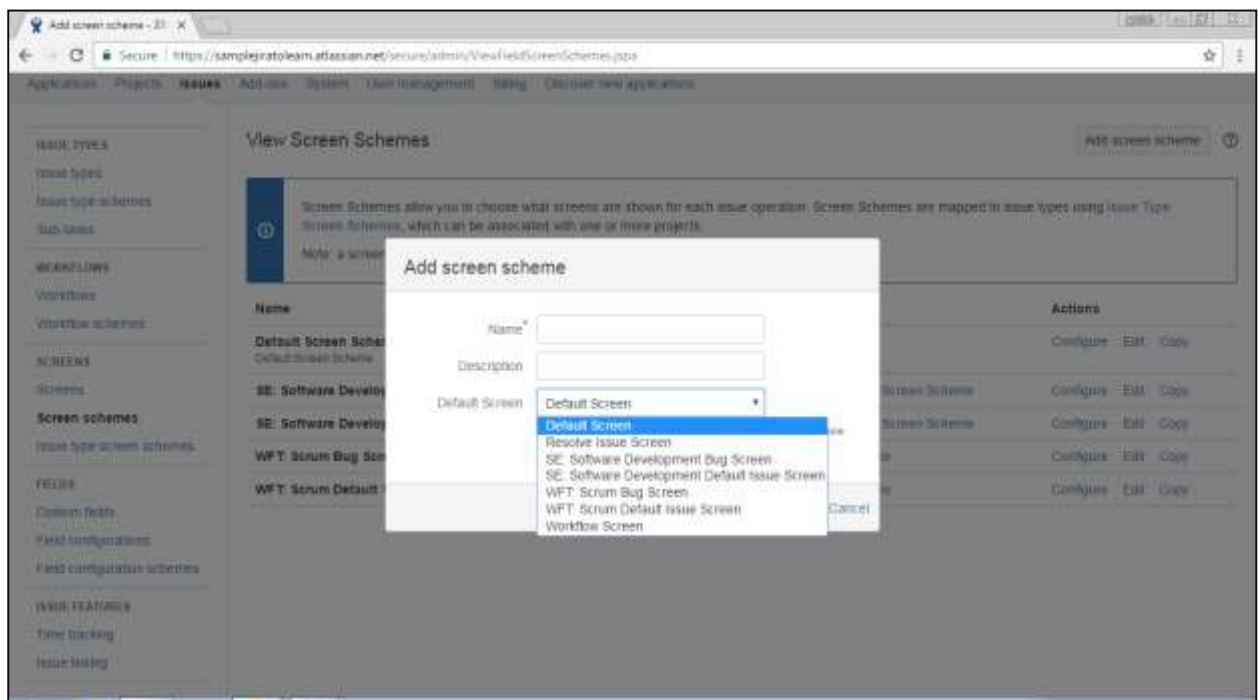


## Screen Schemes

Screen schemes provides an option to choose fields, which should display when a particular issue type is selected. A screen scheme is mapped with issue type using the Issue Type Screen Scheme. It can be associated with one or more project. A screen scheme can be deleted only when it is not used by any Issue Type screen scheme. The user can add a new screen scheme by clicking on the Add Screen Scheme button. The following screenshot shows the different screen schemes available for the listed projects.



Provide all details and then click on the ADD button. The following screenshot shows how to add a new screen scheme.

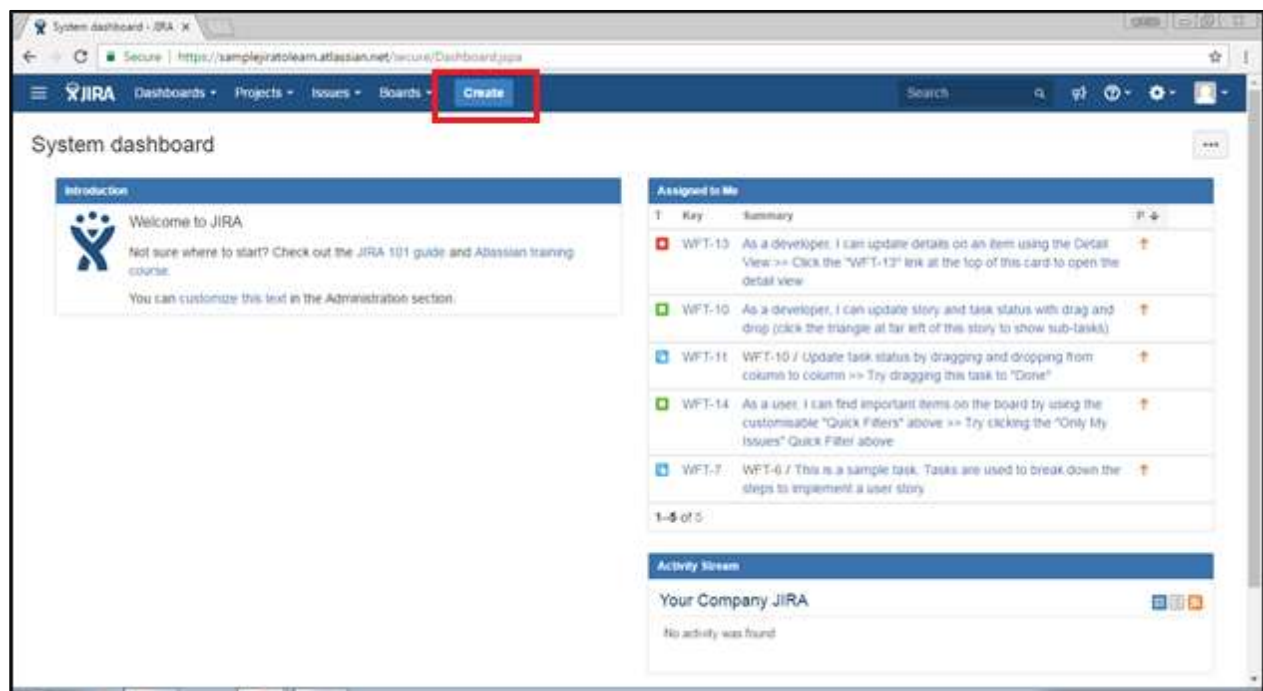


# 11. JIRA – Issue Creation

To create an issue in JIRA, the user should have Create Issue permission in the project. Admin can add/remove the permission.

## Steps to Follow

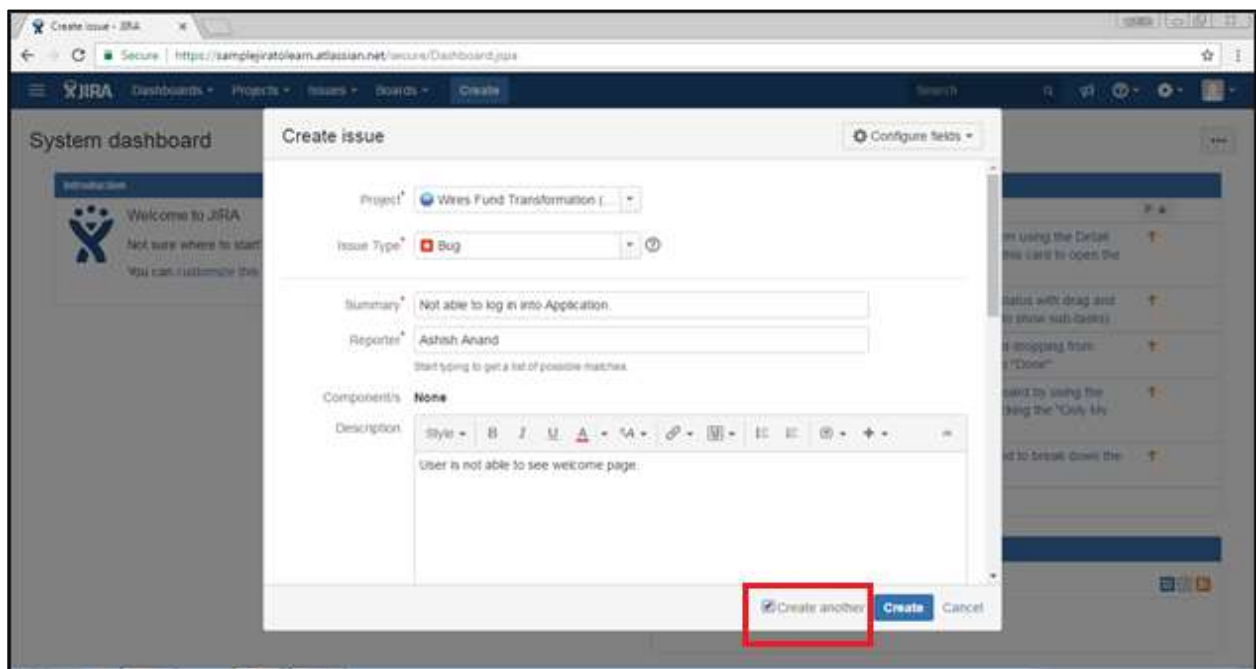
Click on the Create button in the navigation bar to open the create issue dialogue box.



To complete the process of creating an issue, we should follow the pointers given below.

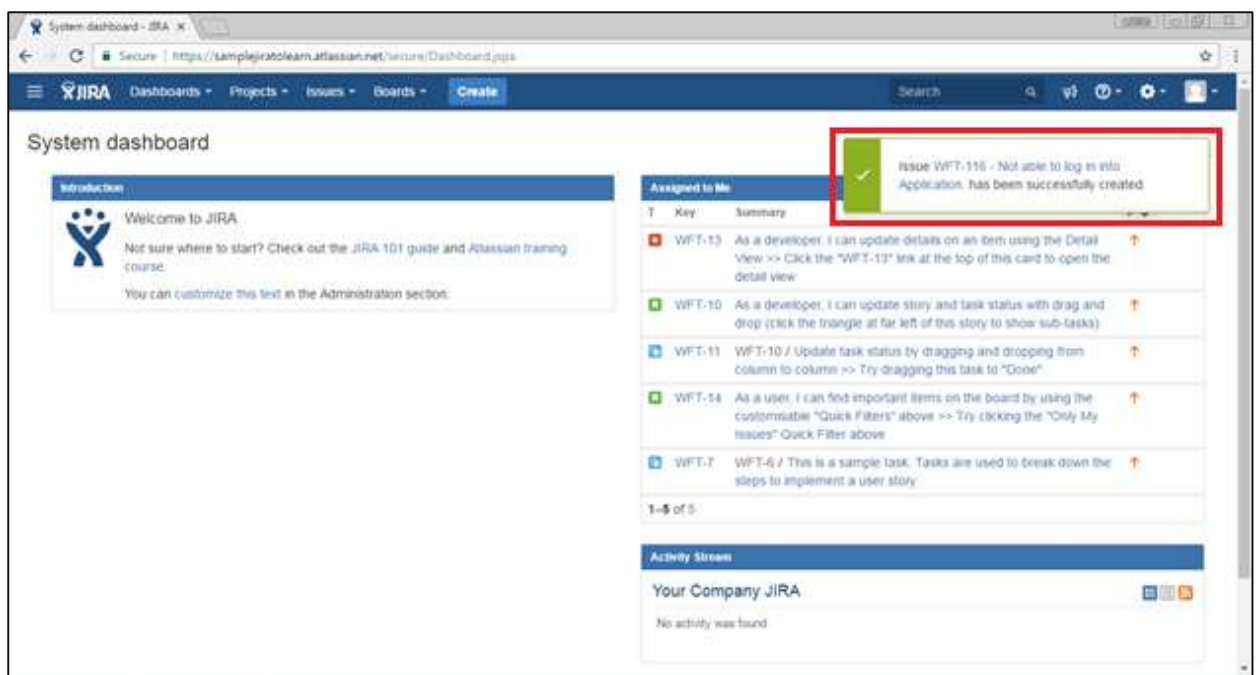
- Select the Project where the issue is.
- Select the type of issue, whether it is a bug/new feature/story, etc.
- Write a one-line summary to provide the overall idea about the issue.
- Write the details of the issue in the **Description** field. Explain the issue, so that stockholders can understand every detail of the issue.
- To create a similar type of issue in the same project and issue type, check the checkbox of "Create another" otherwise keep it as unchecked.
- After entering all the details, click on the Create button.

The following screenshot shows how to create an issue by providing the required and optional details.



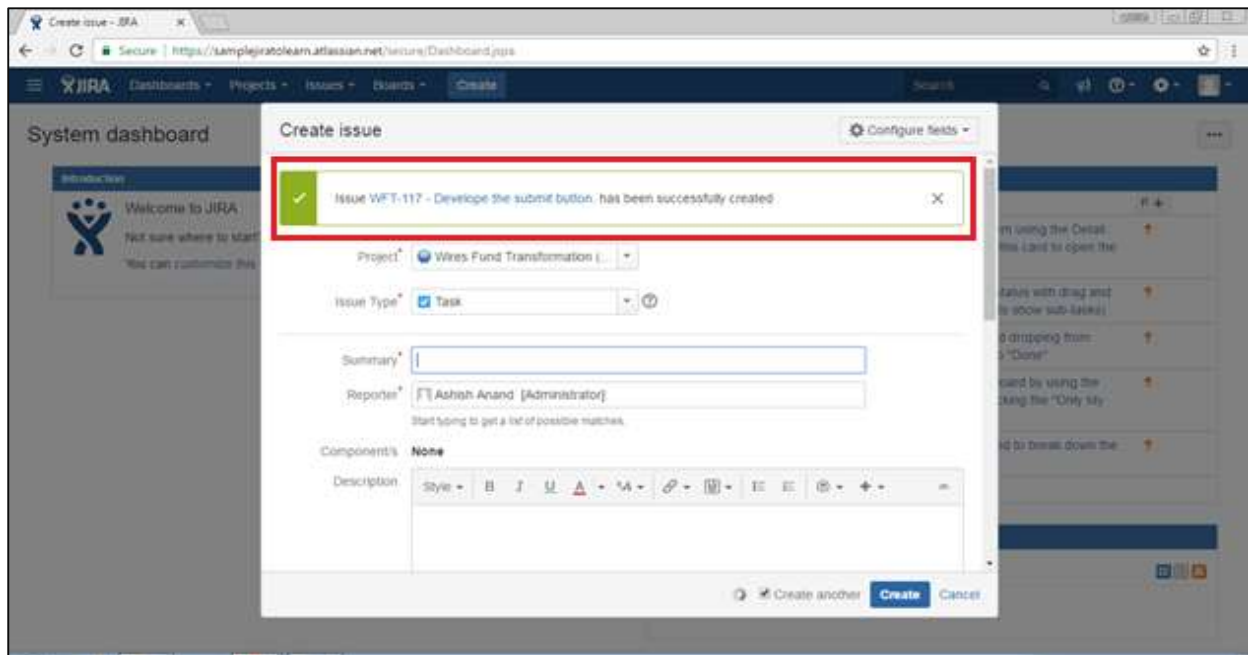
If the "Create another" checkbox is not checked, after clicking on the Create button, the user will have to navigate to the Dashboard and a pop-up will display on the right side with an **issue id** and **summary**.

The following screenshot shows how to know whether the issue is successfully created or not.



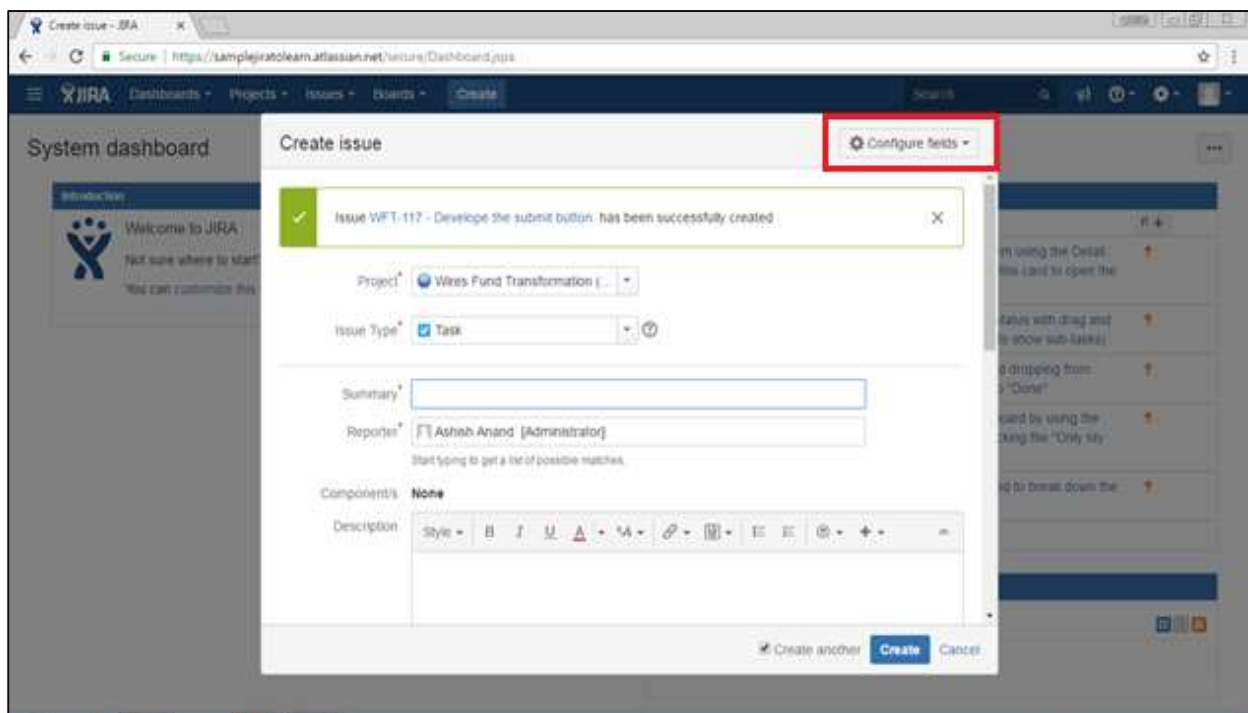
If the "Create another" checkbox is checked while clicking on the Create button, the user will get a new create issue page along with the **issue id**.

The following screenshot shows the page, if the user has checked the "Create another" box.



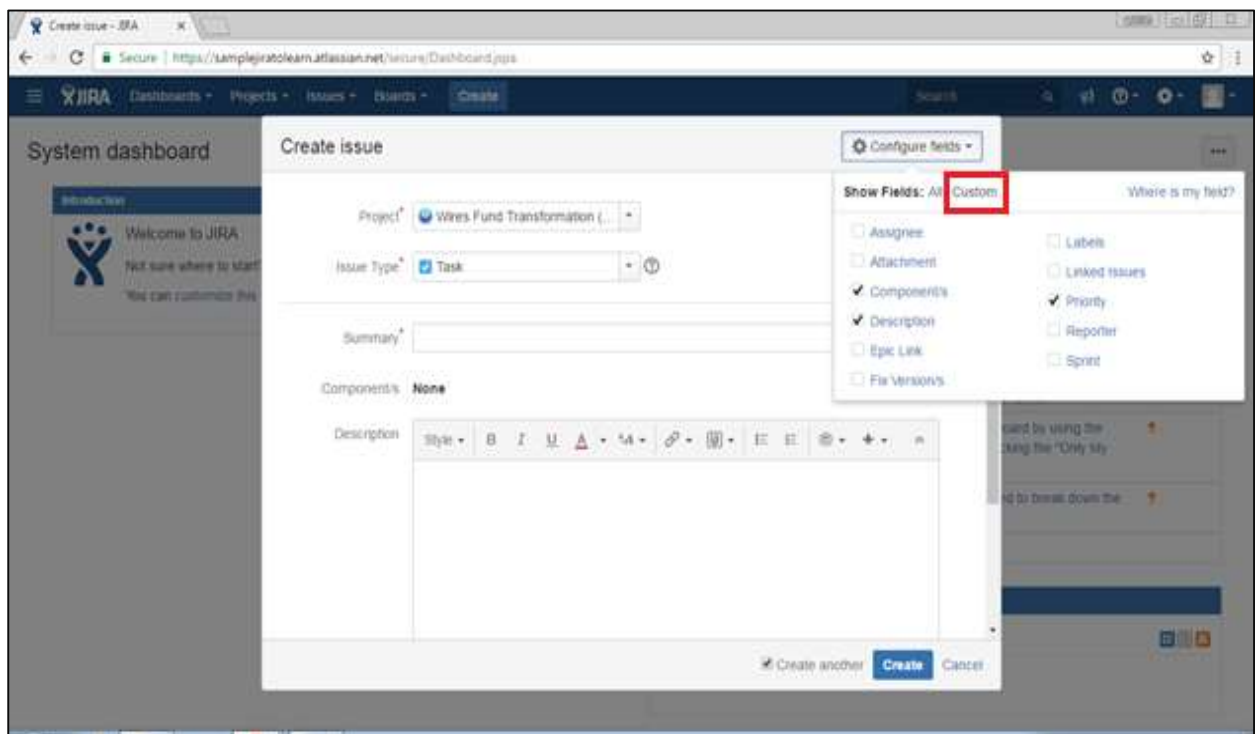
## Configure Fields

To add other fields in the Create Issue form, click on "Configure fields" at the top right hand side of the page. The following screenshot shows how to configure the fields in the Create Issue page.

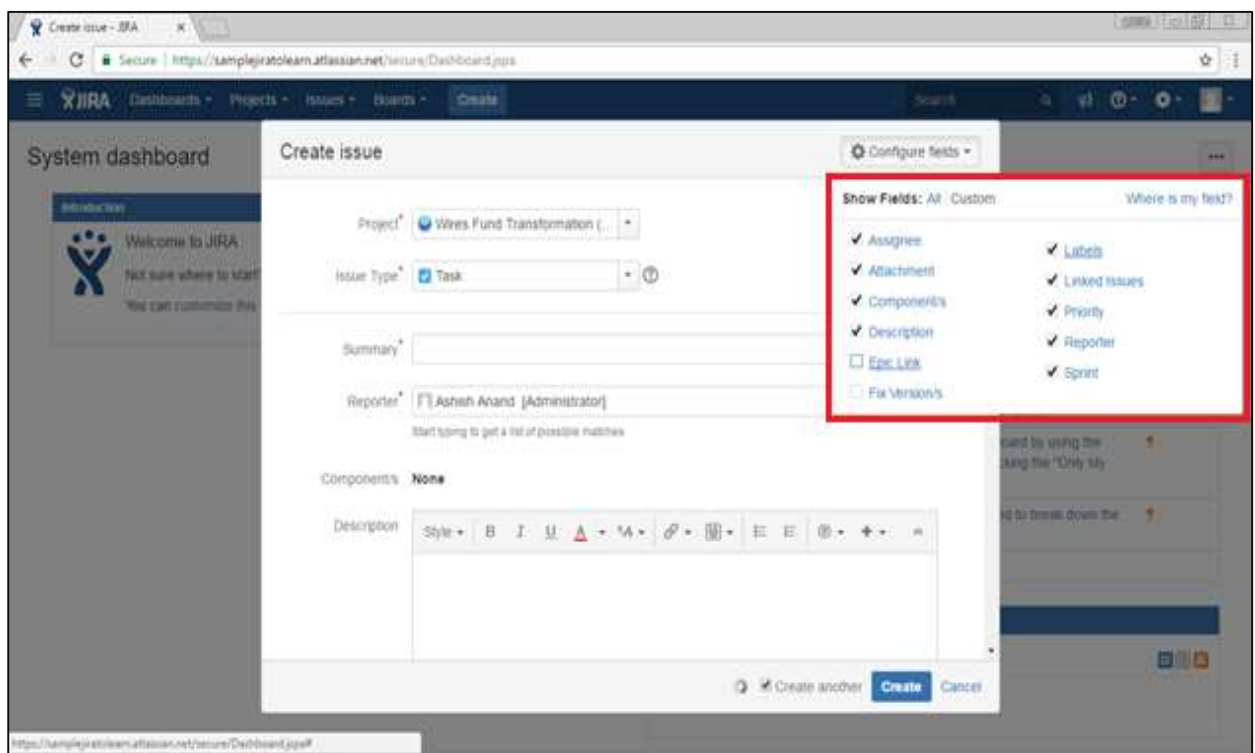




After clicking on the **Configure fields** button, a drop down box will be displayed, click on Custom. The following screenshot shows the available fields under the **Custom** tab.



By checking and unchecking the checkboxes to show and hide, fields will be added or cleared from the form. The following screenshot shows the available fields under the **All** tab.



Now navigate to Create Issue, all fields based on choices will be displayed in the form that shows up. The following screenshot shows the configured fields in the Create Issue page.

The fields in the Create Issue form are explained below.

- **Priority:** Issue creator can set the priority to resolve the issue as High, Medium, Low, and Lowest.
- **Labels:** It is similar to **Tag**; it helps in filtering out specific types of issues.
- **Linked Issue:** It links other issues that are either dependent on this issue or this issue is dependent on them. Options in dropdowns are – block, is blocked by, duplicate, clone, etc.
- **Issue:** User can link the issue by the **Typing ID** or summary of those that are related to the linked issue field.
- **Assignee:** The person who is responsible to fix this issue. Assignee name can be entered by the issue creator.
- **Epic Link:** An Issue creator can provide an epic link, if the issue belongs to any of those.
- **Sprint:** The user can define in which sprint, this issue belongs to, when this issue should be addressed.

In the next chapter, we will learn how to clone an issue.



## 12. JIRA – Clone an Issue

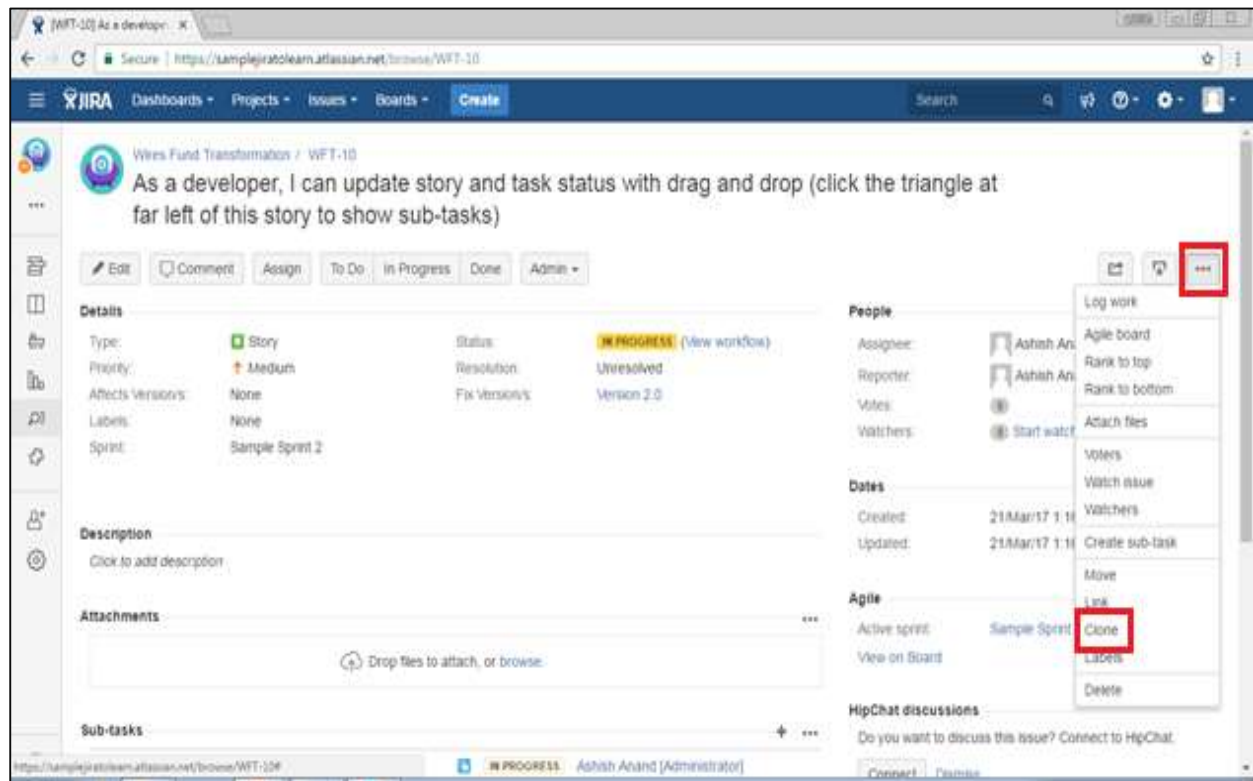
Cloning means to copy. To clone an issue means to create a duplicate issue within the same project. A cloned issue can be treated as a new issue and edited like other issues.

We should consider the following points while cloning an issue.

- A cloned issue is completely a separate issue from the original issue.
- Any action or operation taken on the original issue does not have any impact on the clone issue and vice-versa.
- The only connection between the original and clone is the link that is created.
- Information that is carried from the original issue to clone issue is as follows –
  - Summary
  - Description
  - Assignee
  - Environment
  - Priority
  - Issue Type
  - Security
  - Component
  - Reporter
  - Affects Version
  - Fix Version
  - Issue Links
  - Attachment
  - Projects
  - Content of custom fields are also cloned.
- Information that is not cloned:
  - Time Tracking
  - Comments
  - Issue History
  - Links to confluence pages

## Steps to Follow for Cloning

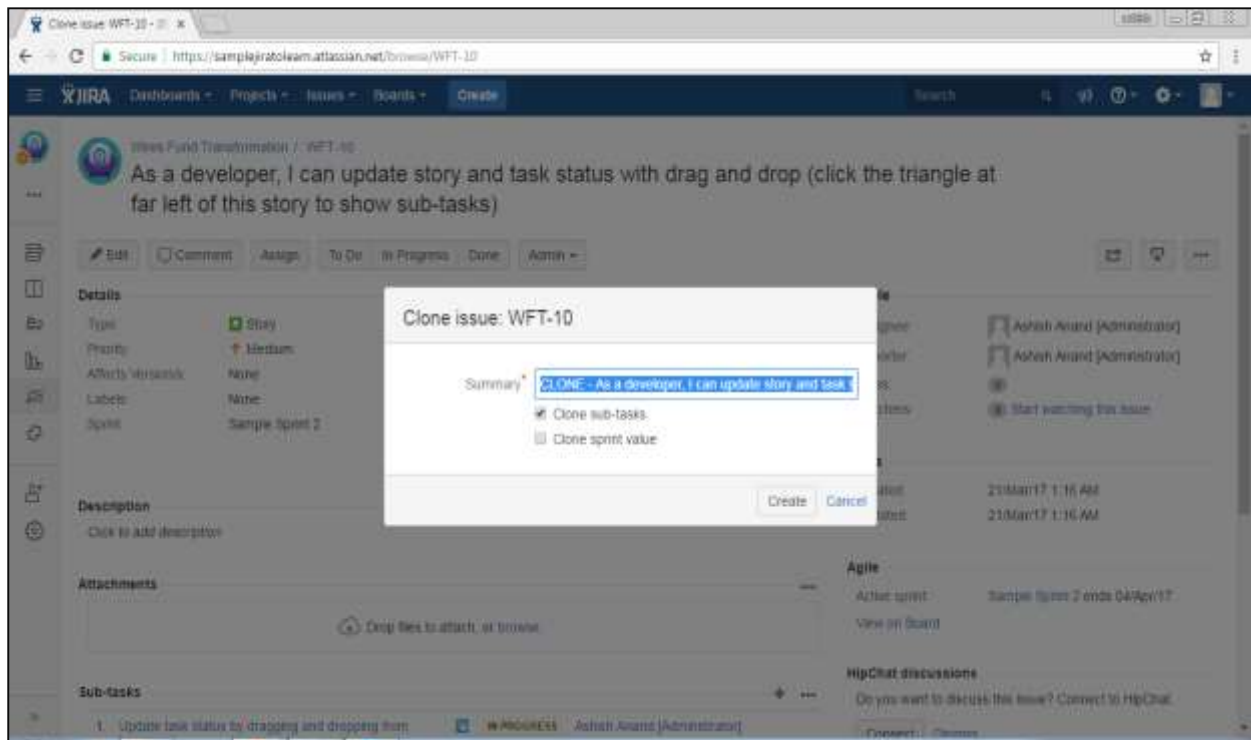
Open a JIRA issue that is supposed to be cloned. Select More → Clone when the screen appears. The following screenshot shows how to access the Clone functionality.



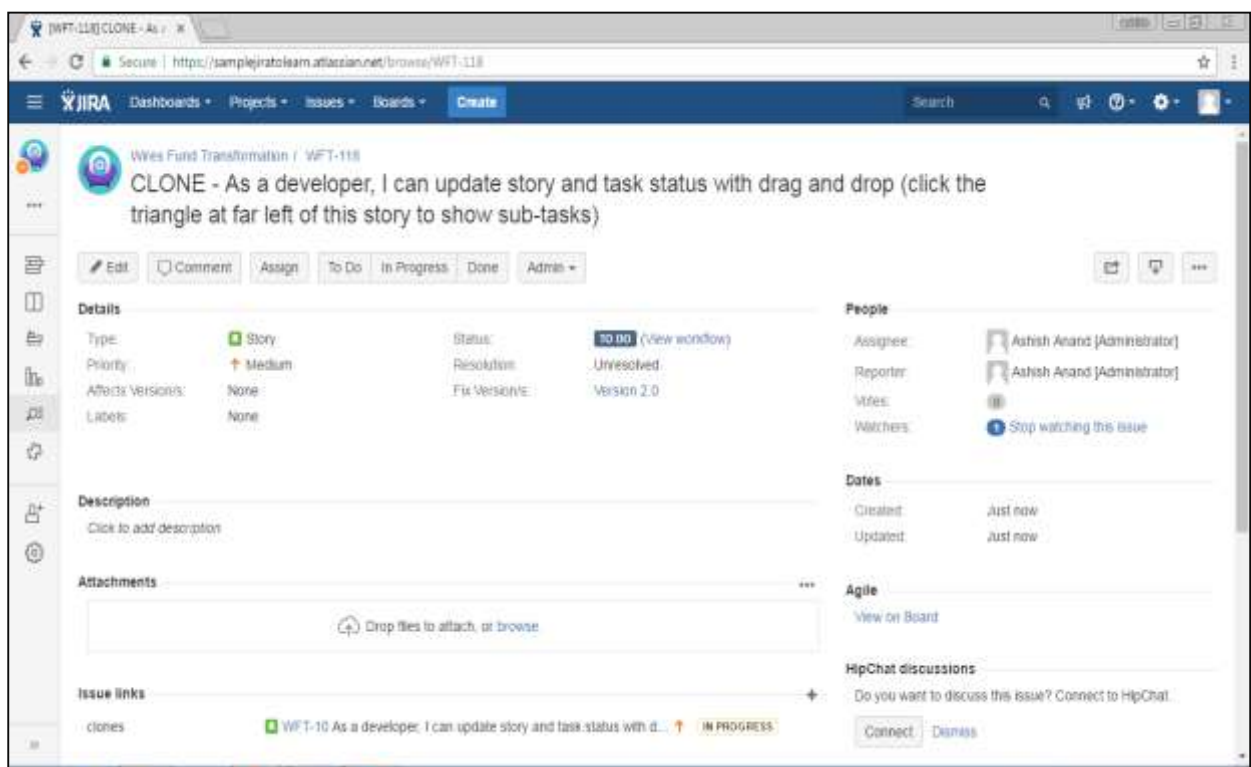
In the clone screen, there are a few options given to the users, which are as follows:

- A user can change the summary while cloning it.
- If the issue contains links to other issues, a user can check the checkbox to contain the clone issue or uncheck if the user does not want to be a part of the clone issue.
- If the issue has sub-tasks, the user can select/deselect the checkbox to contain the sub-tasks in clone or not.
- The same is applicable for attachment as well.
- It also gives an option, whether to carry or not – the sprint value to the new clone issue.

The following screenshot shows how to clone an issue by providing the necessary details.



The next step is to click on Create. It will display the clone issue details. If the user does not change the clone words while creating, it can be visible in the summary, links and sub-tasks. The following screenshot shows how a cloned issue is displayed.



# 13. JIRA – Create a Subtask

An issue can be completed by performing many tasks with different persons like Dev, QA, UAT, Business, Support, etc. To track the progress in each department, sub-tasks are created in an issue and assigned to the concern person. Once all the sub-tasks are resolved, the issue can be marked as completed.

## Points to Note for Creating a Subtask

The following points are to be considered when creating a subtask.

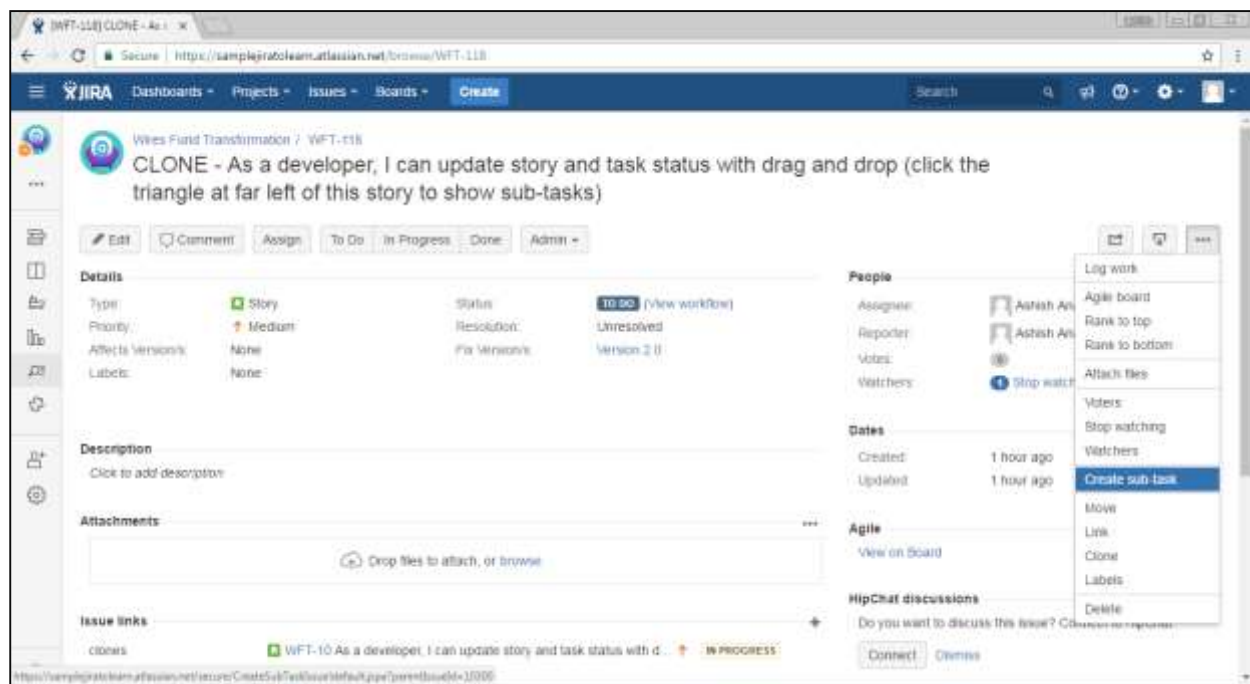
- All subtasks are an essential part of their parent issue.
- All subtasks are visible on the main screen of the parent issue.
- Subtasks always belong to the same project as their parent issue.
- Subtask has all fields that are present in the standard issue.
- Subtasks cannot have a subtask of their own.

## Steps to Follow for Creating a Subtask

We should consider the following steps when creating a subtask.

- Open an issue where subtasks should be created.
- Select More → Create Subtask. Create subtask page will display.

The following screenshot shows how to access the Create Subtask functionality.



Enter the details in all the required fields and then click on Create. The following screenshot shows the **Create Subtask Form** with the required and optional fields.

The screenshot shows the 'Create Subtask' form in JIRA. The form is titled 'Create Subtask: WFT-118'. It has the following fields:

- Issue Type:** Sub-task
- Summary:** QA Test Script
- Reporter:** Ashish Anand (Administrator)
- Components:** None
- Description:** Test script creation

The form is overlaid on the main issue page for WFT-118. The background shows the issue details, including the issue type (Sub-task), summary (QA Test Script), and reporter (Ashish Anand). The 'Create' button is visible at the bottom right of the form.

Once a subtask is created, it will be available on the Main Issue page → Subtask section. The following screenshot shows how to view a subtask in an issue.

The screenshot shows the 'Sub-tasks' section of the JIRA issue page for WFT-118. The subtasks are listed in a table with columns for ID, Summary, Status, Assignee, and Progress.

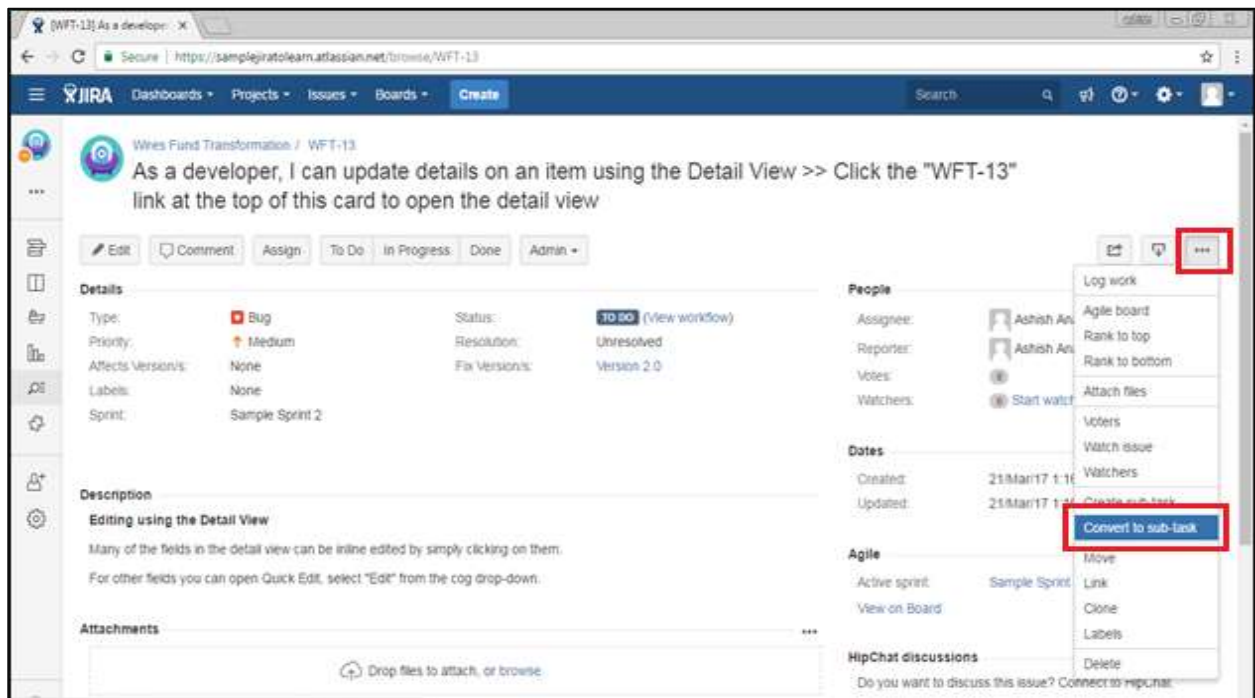
ID	Summary	Status	Assignee	Progress
1	CLONE - Update task status by dragging and dropping from column to column => Try dragging this task to "Done"	In Progress	Ashish Anand (Administrator)	10:00
2	CLONE - When the last task is done, the story can be automatically closed => Drag this task to "Done" too	Unassigned	Unassigned	10:00
3	QA Test Script	Unassigned	Unassigned	10:00, 44%

The 'Activity' section at the bottom shows 'All', 'Comments', 'Work log', 'History', and 'Activity' tabs. There are no comments yet on this issue.

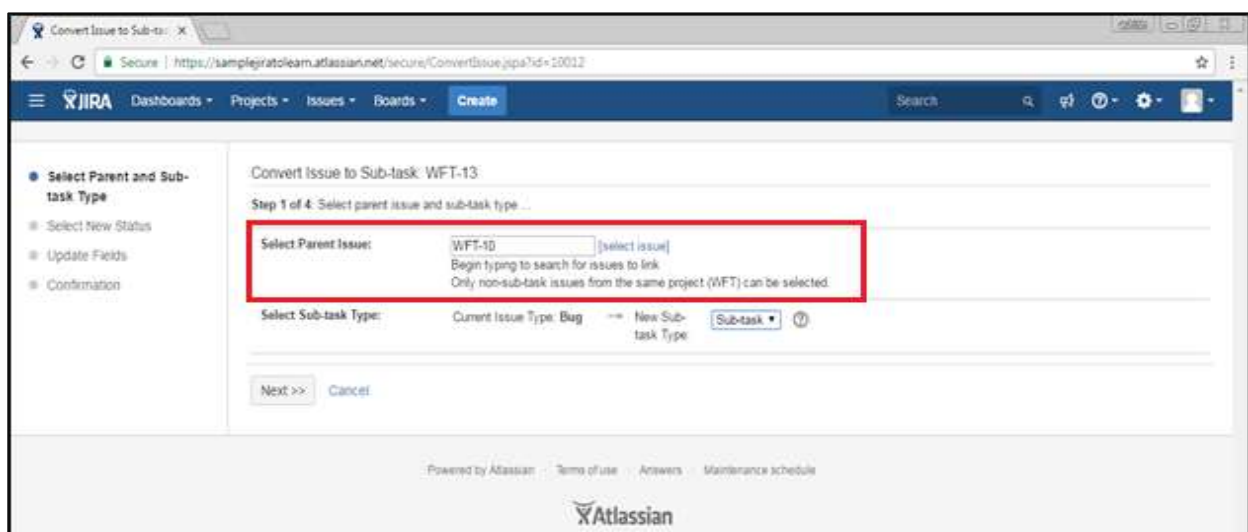
# 14. JIRA – Convert Issue to Subtask

In this chapter, we will understand how to convert an issue to a subtask. For doing this, we should follow the procedure given below.

To begin with, navigate and click to the issue, which needs to be converted into a subtask. Select More → Convert to subtask. The following screenshot shows how to navigate to convert to sub-task.



Choose the parent issue in which this subtask will be tagged. The following screenshot shows how to convert the issue into a sub-task.

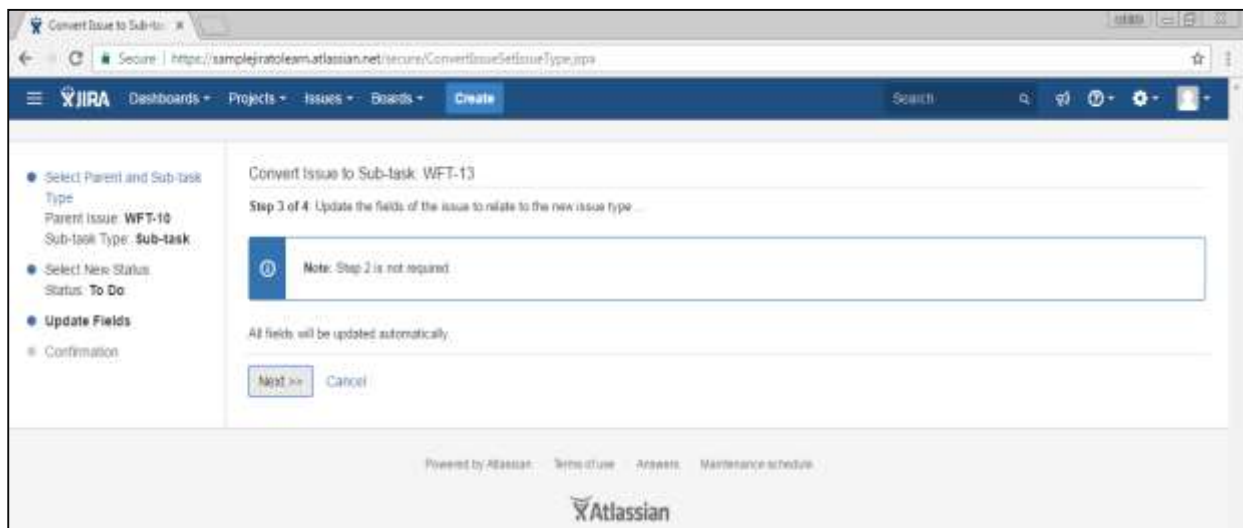




Click on Next. If the status of the issue is not an allowed status for the new issue type. Select – New Status will be displayed. Select a new status and click on the Next button.

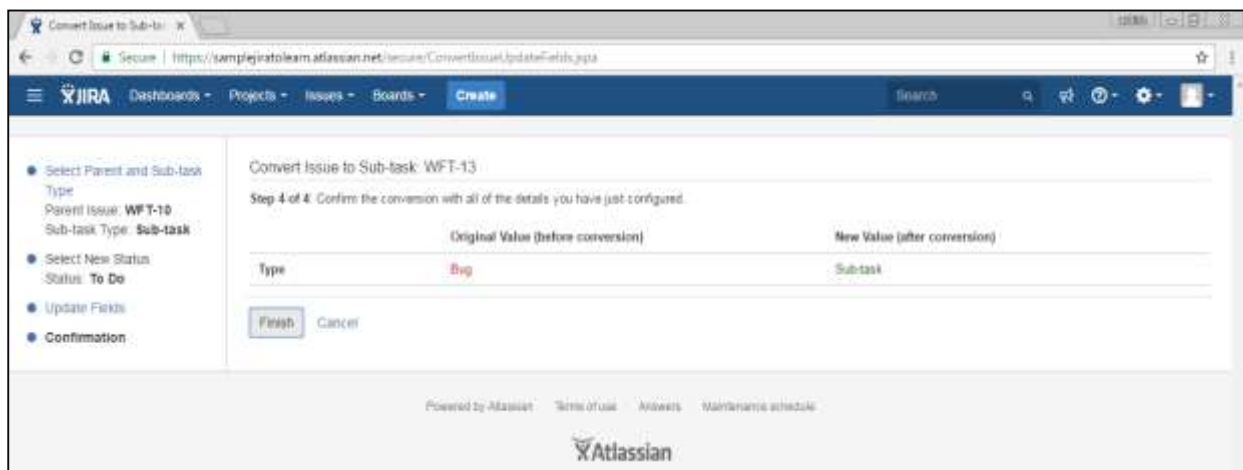
Update Fields screen will be prompted to enter any additional fields, if they are required. Otherwise, a message will be prompted as – 'All fields will be updated automatically'. Click on Next.

The following screenshot shows how to convert the issue in sub-tasks.

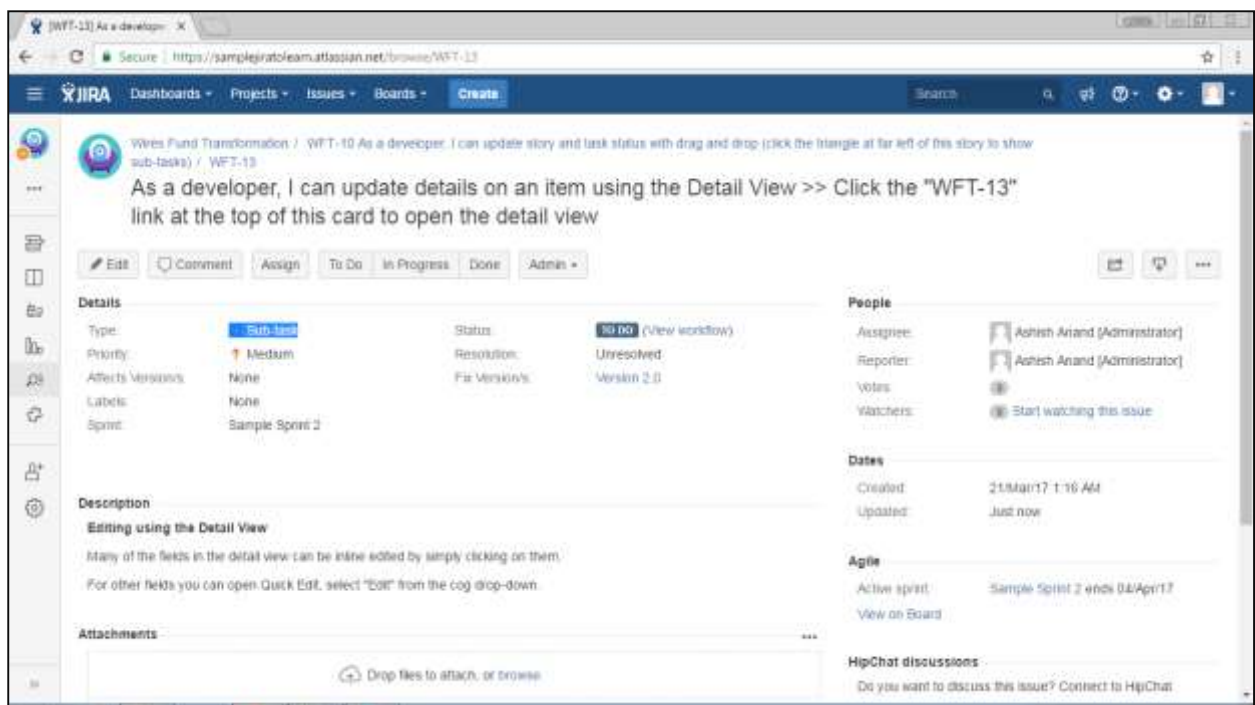


The Confirmation screen is displayed. It will display the original values and the new values. Click on Finish.

The following screenshot shows how to convert the issue in sub-tasks.



The original issue will be displayed. Now it is a sub-task. The parent's issue number is now displayed at the top of the screen. The following screenshot shows how the sub-task displays after successful conversion from an issue.



## Convert an Issue to a Subtask

We should consider the following points while converting an issue to a subtask.

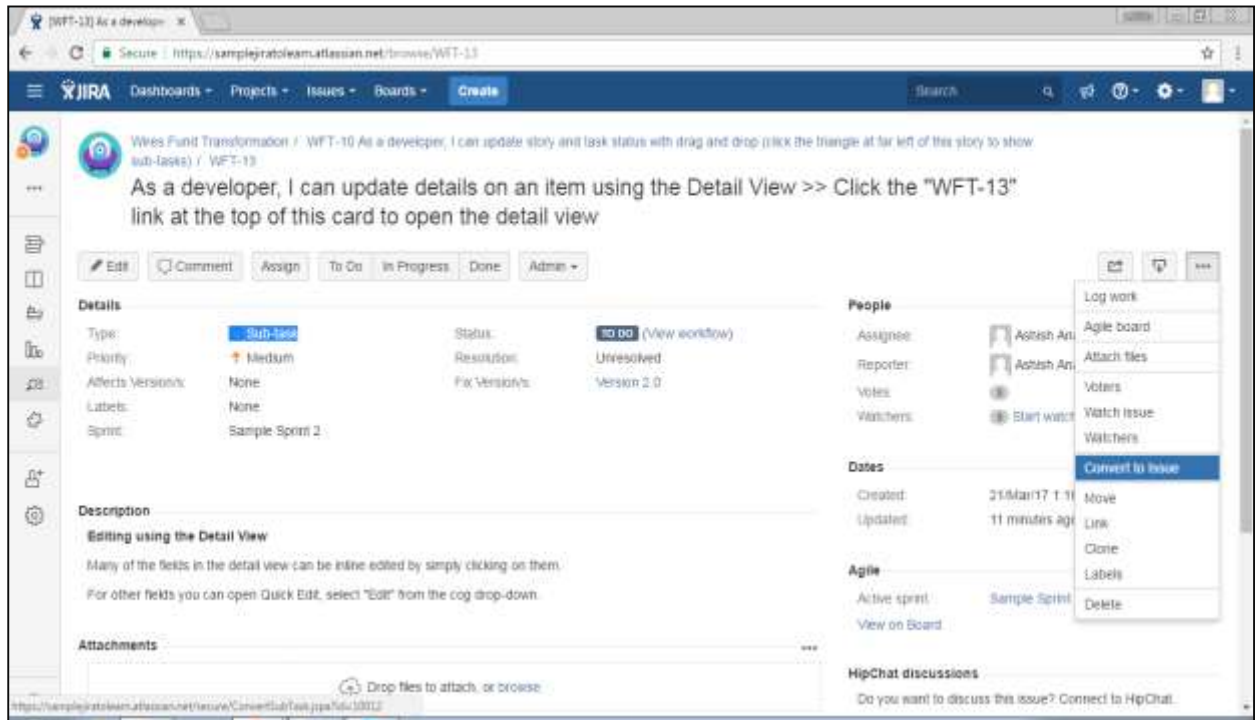
- An issue cannot be converted into a subtask if it has its own subtask.
- To convert such an issue into a subtask, we should first convert all the subtasks of issues into a standard issue and after that convert the issue into a subtask.
- Subtasks cannot be moved from one issue to another directly.
- To move a subtask from one issue to another, first convert all sub-tasks into issues and then again, convert issues to subtasks by giving the parent issue name while converting.

In the next chapter, we will learn how to convert a subtask to an issue.



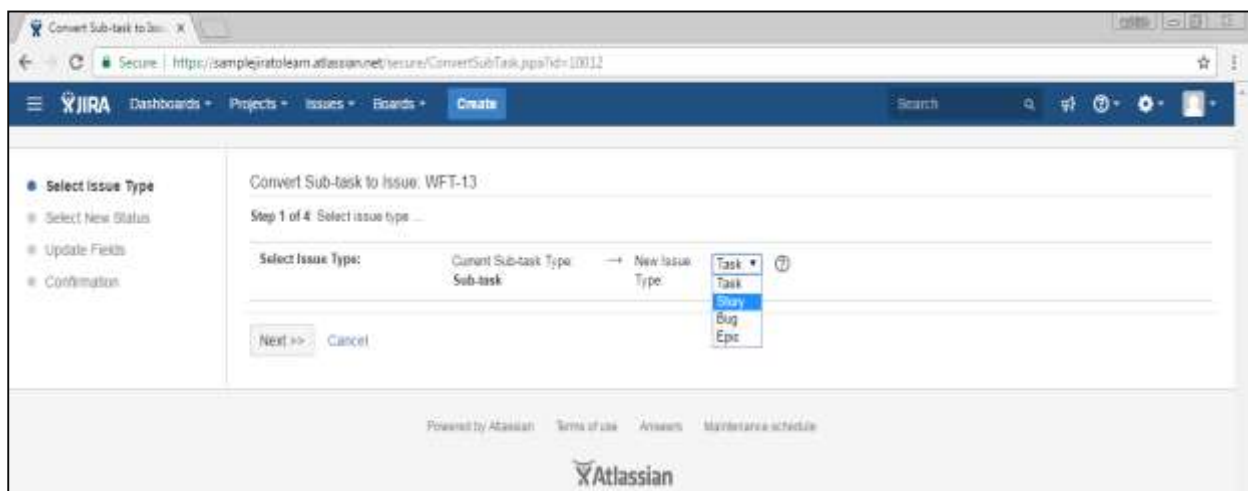
# 15. JIRA – Convert Subtask to Issue

To convert a subtask to an issue, we should first navigate to the subtask that needs to be converted into an issue. Then, Select More → Convert to issue. The following screenshot shows how to navigate at Convert to Issue.



To begin with, click on the drop down box of the Select Issue Type option, choose the type of the issue (i.e., a standard issue type) and click on the Next button.

The following screenshot shows how to convert a sub-task to an issue.



If the status of the subtask is not an allowed status for the new issue type, then the **Select New Status** screen is displayed. Select a new status and click on the Next button.

In the next step, the **Update Fields** screen will be prompted to enter any additional fields if they are required. Otherwise, a message will display stating – 'All fields will be updated automatically'. Click on **Next**.

The following screenshot shows how to convert a subtask in to an issue.

Convert Sub-task to Issue: WFT-13

Step 3 of 4: Update the fields of the issue to relate to the new issue type ...

Note: Step 2 is not required.

Story Points: 3  
Measurement of complexity and/or size of a requirement

Next >> Cancel

The **Confirmation** screen is displayed. It will display the original values and the new values. Click on **Finish**.

The following screenshot shows how to convert a subtask to an issue.

Convert Sub-task to Issue: WFT-13

Step 4 of 4: Confirm the conversion with all of the details you have just configured.

	Original Value (before conversion)	New Value (after conversion)
Type	Sub-task	Story
Story Points		3

Finish Cancel

The issue will be displayed. It is no longer a subtask. There is no longer a parent issue number displayed at the top of the screen.

The following screenshot shows how the issue will display after conversion from a subtask.

The screenshot displays the JIRA issue detail view for 'WFT-13'. The issue title is 'WFT-13' and the description is 'As a developer, I can update details on an item using the Detail View >> Click the "WFT-13" link at the top of this card to open the detail view'. The issue is a 'Story' with a 'Medium' priority, 'None' labels, and is assigned to 'Sample Sprint 2'. The status is 'To Do' (view workflow) and the resolution is 'Unresolved'. The reporter is 'Anish Anand (Administrator)' and the assignee is 'Anish Anand (Administrator)'. The issue was created on 25/Mar/17 at 1:15 AM and updated 'Just now'. The active sprint is 'Sample Sprint 2 ends 04/Apr/17'. The attachment section shows a placeholder for dropping files. The bottom right corner has a 'Connect' button for HipChat discussions.

WFT-13 As a developer, I can update details on an item using the Detail View >> Click the "WFT-13" link at the top of this card to open the detail view

Edit Comment Assign To Do In Progress Done Admin

**Details**

Type	Story	Status	To Do (View workflow)
Priority	Medium	Resolution	Unresolved
Affects Version/s	None	Fix Version/s	Version 2.0
Labels	None		
Sprint	Sample Sprint 2		

**People**

Assignee: Anish Anand (Administrator)  
Reporter: Anish Anand (Administrator)  
Watchers: Start watching this issue

**Dates**

Created: 25/Mar/17 1:15 AM  
Updated: Just now

**Agile**

Active sprint: Sample Sprint 2 ends 04/Apr/17  
View on Board

**HipChat discussions**

Do you want to discuss this issue? Connect to HipChat.  
Connect - Register

**Description**

**Editing using the Detail View**

Many of the fields in the detail view can be inline edited by simply clicking on them.  
For other fields you can open Quick Edit, select "Edit" from the cog drop-down

**Attachments**

Drop files to attach, or browse:

# 16. JIRA – Create Issue using CSV

A User can create multiple issues at a time using Comma separated file known as CSV. The CSV files are text files those represent tabulated data and separate different sections by commas.

They have two-step process that requires importing the data from a CSV, while a third optional step is also present, which are listed below.

- Prepare a CSV file.
- Import the CSV file into the system.
- Save the configuration for future use.

## Prepare the CSV File

While creating a CSV file the following points must be considered.

Each CSV file should have a heading row with a summary column. The first row is the heading row and represents the fields of the create issue page. **Example:** Summary, Assignee, Reporter, Priority, Description, sprint, "Test Suite", Ashish, Ashish, 1, etc.

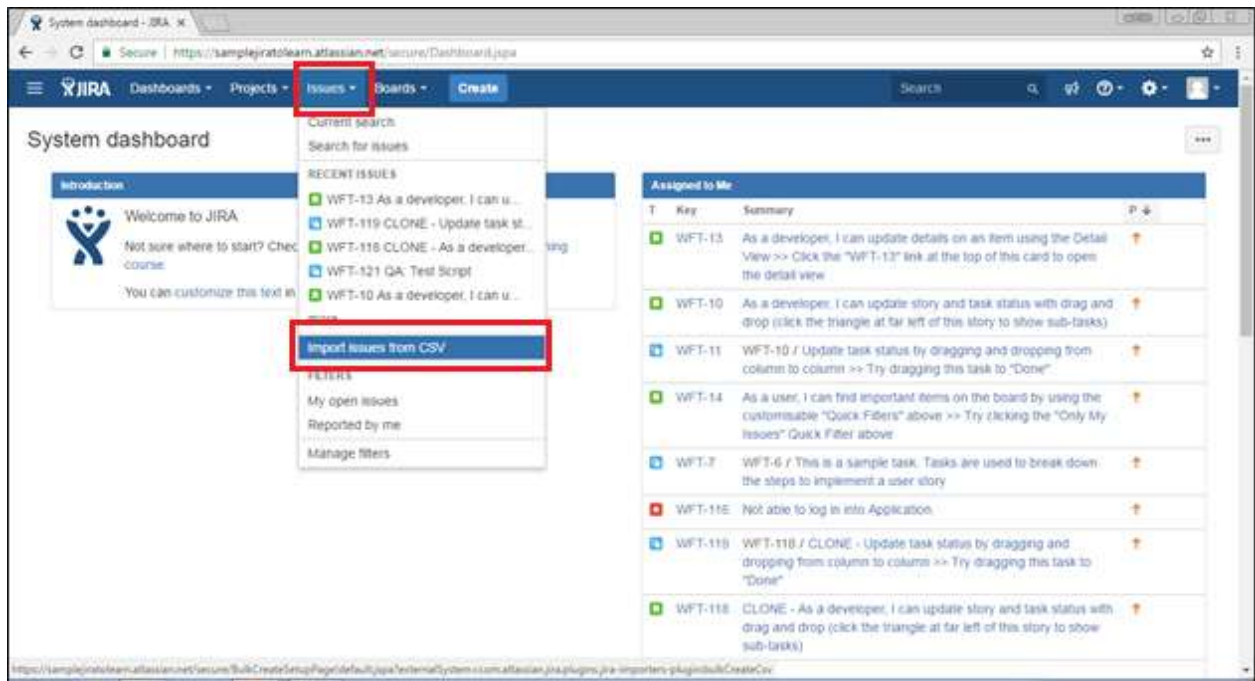
- Use double quote marks (") in the CSV file to capture data that appears in multiple lines. **For example:** upon import, JIRA will treat the following CSV as a single record: Summary, Description, Status, "Login issue", "This is on a new line", Open
- While importing issues from a CSV file, the Project Name and Project Key are important columns in CSV. In addition, the name of these fields should match exactly as they are present in JIRA.

## Import the CSV File

To import the CSV file, we should follow the steps given below.

**Step 1:** Select Issues → Import Issues from CSV to open the Bulk Create Setup page.

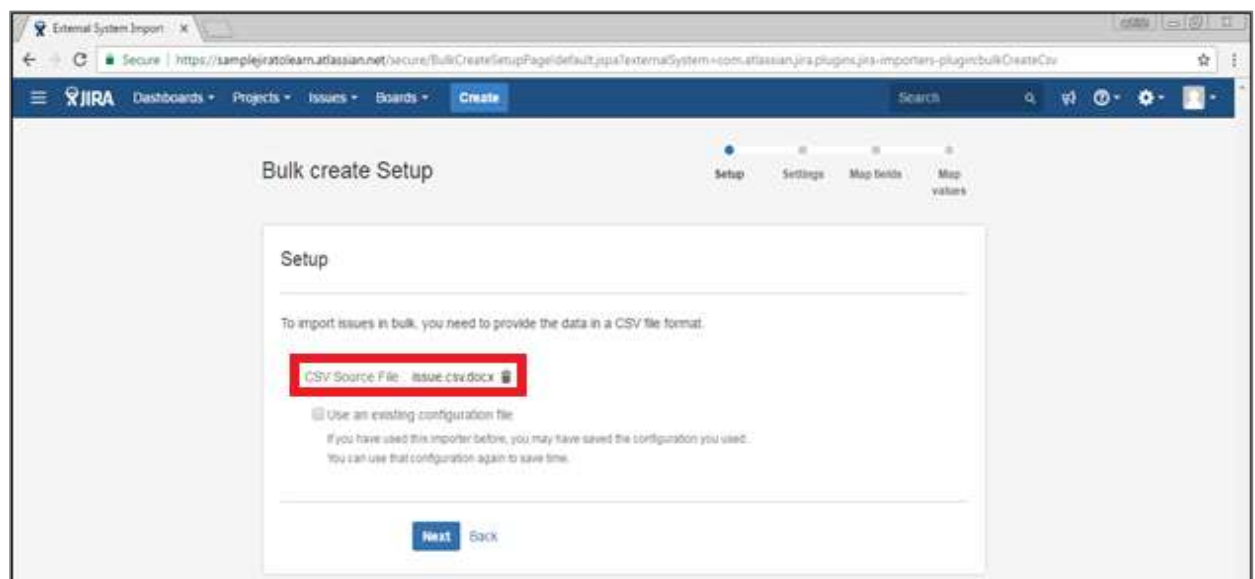
The following screenshot shows how to access the Import issues from the CSV functionality.



**Step 2:** On the Setup page, select CSV Source File. Do not check the "Use an existing configuration file" check box, if you do not have a configuration file or if you want to create a new configuration file.

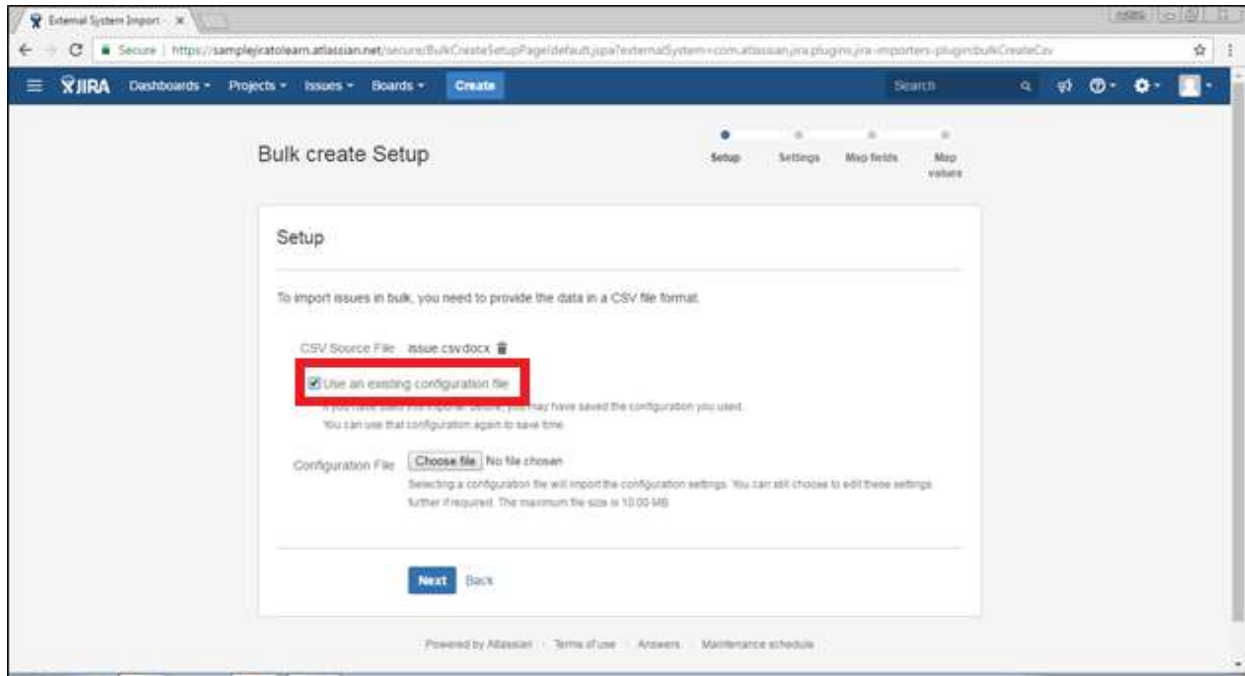
Configuration files specify a mapping between column names in the CSV file's header row and fields in the JIRA application.

The following screenshot shows the Bulk create setup page, where the user browses and uploads the CSV file.



**Step 3:** If the user checks the checkbox of "Use an existing configuration file", JIRA will ask to specify an Existing Configuration File.

The following screenshot shows how to use an existing configuration file.



**Step 4:** If the user does not select this option, then at the end of the CSV file import wizard, JIRA will ask to create a configuration file, which can be used for subsequent CSV imports.

Click on the Next button → the Settings step of the CSV file import wizard will display. Complete the required fields. If the CSV file uses a different separator character other than a comma, specify that character in the CSV Delimiter field. If the separator is a 'Tab', this can be entered using the format 't'.

The following screenshot shows how to provide settings of csv file:

The screenshot shows the 'Settings' page in the JIRA External System Import wizard. The page has a breadcrumb trail: Setup > Settings > Map fields > Map values. The 'Settings' section contains the following fields:

- Import to Project:** Wires Fund Transformation
- File encoding:** UTF-8
- Delimiter:** , (with a note: Please use it to have a Separator character)
- Date format:** dd/MM/yyyy from a (with a note: Please specify the format that dates are stored in the CSV file. Please use syntax valid for SimpleDateFormat.)

At the bottom of the form, there are 'Next' and 'Back' buttons. The 'Next' button is highlighted in blue.

**Step 5:** Click on the Next button to proceed to the Map field's step of the CSV file import wizard. Here, the user has to map the column headers of the CSV file to the fields in the selected JIRA project. After selection, tick the check box for Map field value.

A CSV field should map to the JIRA summary field. This ensures the issues created have a summary.

The following screenshot shows how to map CSV fields with JIRA fields.

The screenshot shows the 'Map fields' page in the JIRA External System Import wizard. The page has a breadcrumb trail: Setup > Settings > Map fields > Map values. The 'Map fields' section contains the following table:

CSV Field	JIRA field	Map field value
Assignee (e.g. Ashish)	Assignee	<input checked="" type="checkbox"/>
Priority (e.g. High)	Priority	<input checked="" type="checkbox"/>
Summary (e.g. Group Name)	Summary	<input checked="" type="checkbox"/>

At the bottom of the form, there are 'Next' and 'Back' buttons. The 'Next' button is highlighted in blue. A red box highlights the 'Map field value' column and its checkboxes.



**Step 6:** Click on the Next button, the Map values step of the CSV file import wizard will display. On this step of the import wizard, the user can select which specific CSV field values to map to which specific JIRA field value.

- Fields whose Map Field Value check boxes were selected in the previous step will be presented on this page.
- If the CSV field has a username (e.g. Reporter or Assignee) and does not select the Map Field Value check box for this field in the previous step of the CSV file import wizard, then the importer will map imported usernames from the CSV file to (lowercase) JIRA usernames.

The following screenshot shows how to map values.

The screenshot displays the 'Map values' step of the JIRA CSV import wizard. At the top, a progress bar shows four steps: Setup, Settings, Map fields, and Map values, with 'Map values' being the current step. Below the title 'Map values', there is a table for mapping CSV fields to JIRA fields.

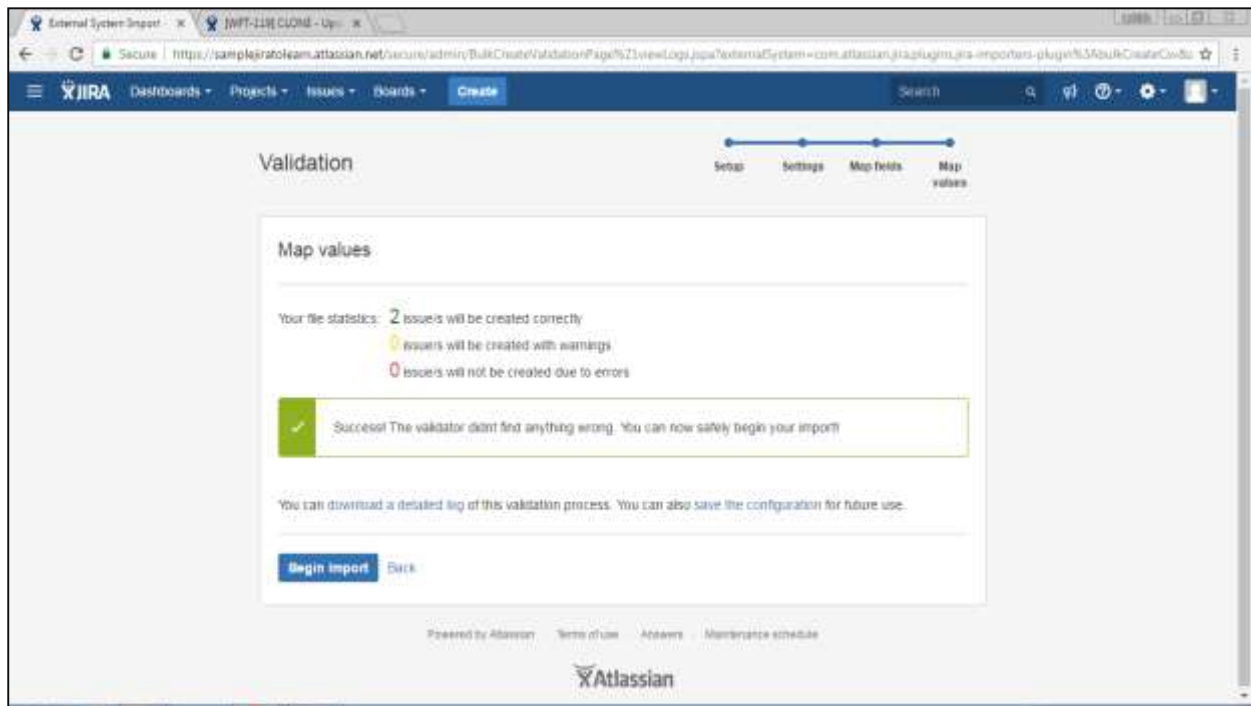
CSV Field	Value from importer	Target value in JIRA
Assignee (imported as assignee)	Ashish	Ashish Arand
Priority (imported as priority)	High	High
Summary (imported as summary)	App crash	App crash
	login Fails	login Fails

At the bottom of the table, there are three buttons: 'Begin Import' (highlighted in blue), 'Validate', and 'Back'. Below the table, there is a footer with 'Powered by Atlassian', 'Terms of Use', 'Answers', and 'Maintenance schedule', followed by the Atlassian logo.

**Step 7:** Click on the Validate button, it will validate the imported data and display if any errors or warnings are required, otherwise it will display how many successful imports are possible with the file.

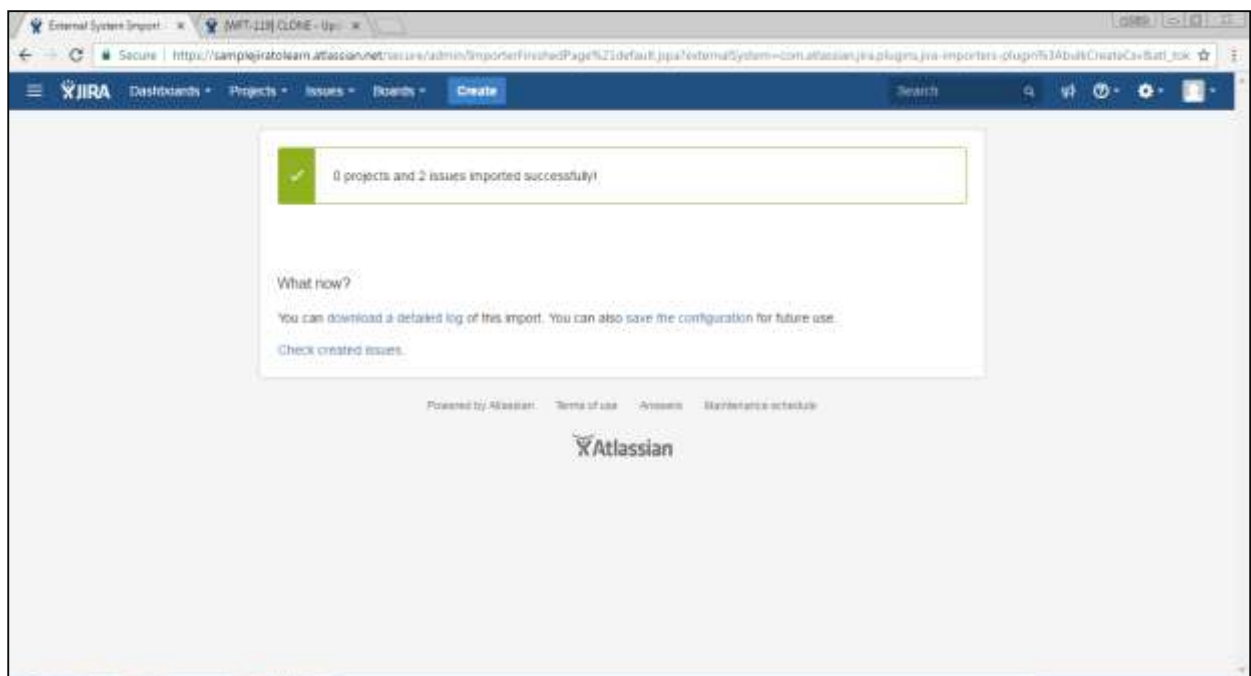


The following screenshot shows the successful validation of CSV file.



**Step 8:** Now, Click the Begin Import button. The importer will display updates like import is in progress, then a success message when the import is completed.

Following screenshot shows how many issues are created using CSV file:



**Step 9:** Click on the Check Created issues, it will display the list of issues those are created using the CSV.

The following screenshot shows the list of newly created issues using the CSV file.

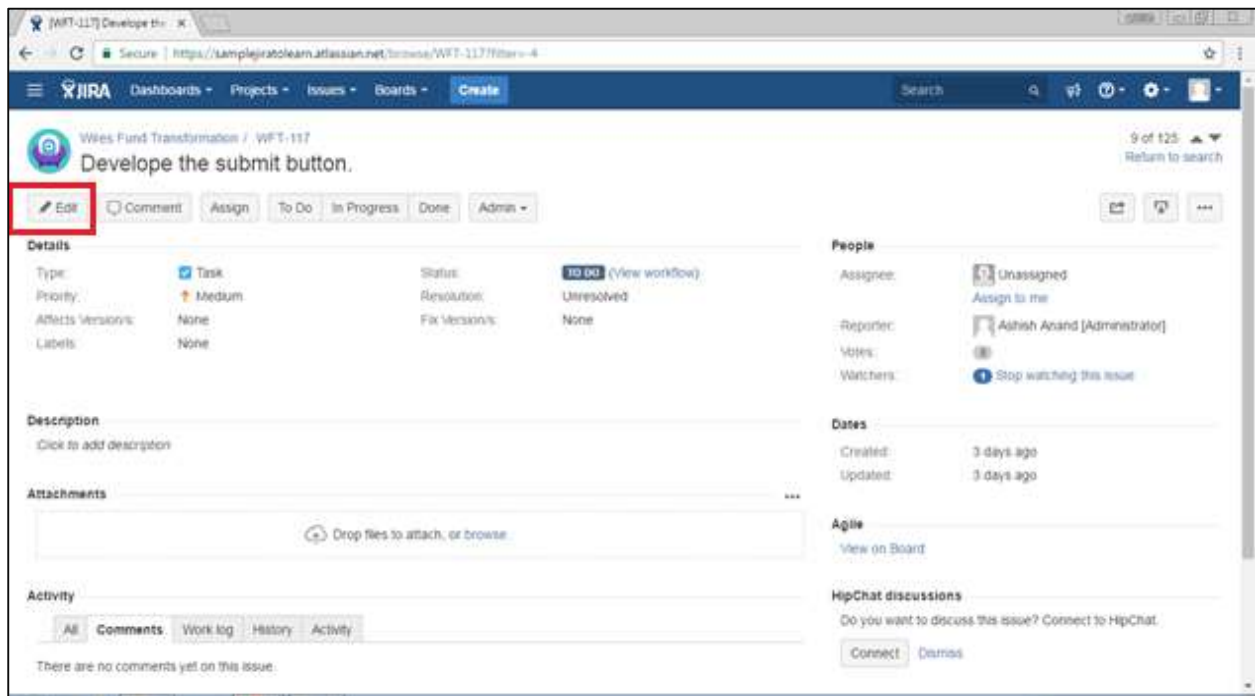
The screenshot displays the JIRA issue navigator interface. The search bar contains the criteria: `project=WFT AND issuekey=WFT-124 AND issuekey=WFT-125 AND creator=currentUser()`. The results show two issues:

T	Key	Summary	Assignee	Reporter	P	Status	Resolution	Created	Updated	Due
1	WFT-125	App crash	Unassigned	Ashish Anand (Administrator)	↑	To DO	Unresolved	09/Apr/17	09/Apr/17	---
2	WFT-124	Login Fail	Unassigned	Ashish Anand (Administrator)	↑	To DO	Unresolved	09/Apr/17	09/Apr/17	---

# 17. JIRA – Edit an Issue

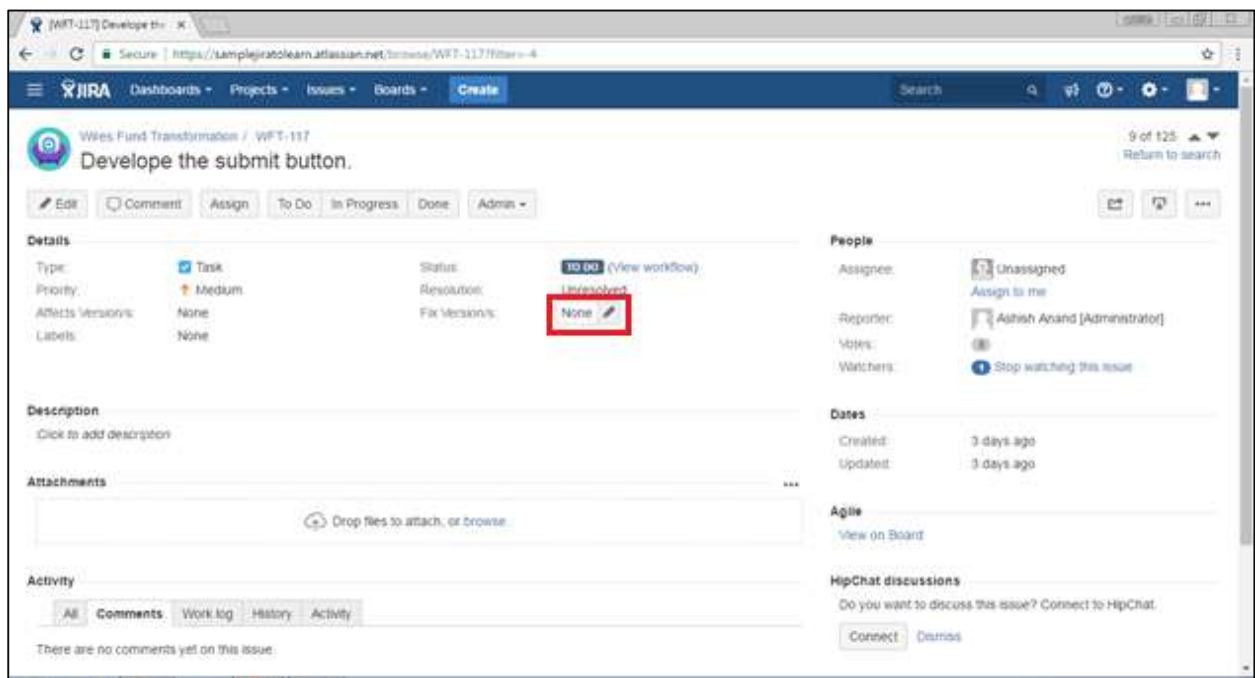
To edit an issue in JIRA, the user has to navigate to the issue, which is required to edit and then click on the issue to open the page. The next step is to click on the **Edit** button, which is present at the top left hand side of the view issue page. It will open the edit issue page that is similar to the create page.

The following screenshot shows how to access the **Edit** functionality.

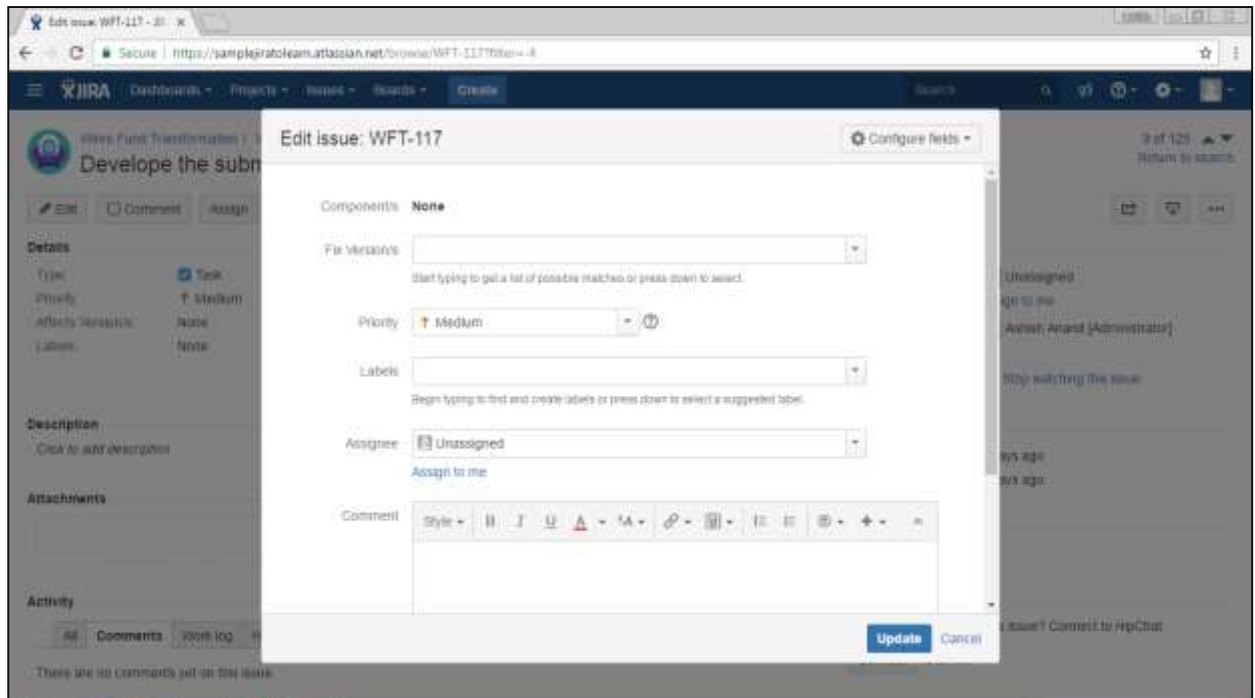


Or, hover the mouse over the field and click on the **Pencil Icon** to edit the specific field inline.

The following screenshot shows how to edit a specific field without clicking on main edit button:



Modify the issue details in the corresponding field of the edit Issue page. The Following screenshot shows the edit page to update details of an issue.



Once the update is completed, click on the Update button. The user will be able to see the edited text/fields in the View Issue Page.

The Following screenshot shows the updated details:

The screenshot displays a JIRA issue page for the project 'Wires Fund Transformation / WFT-117'. The issue title is 'Develop the submit button.' and it is currently in the 'To Do' state. The issue is a 'Task' with a 'Medium' priority and is 'Unresolved'. It has no version or fix version associated with it. The 'Labels' field is highlighted with a red box and contains the label 'WFT'. The 'Assignee' is 'Unassigned', and the 'Reporter' is 'Ashish Anand [Administrator]'. The issue was created '3 days ago' and updated '1 minute ago'. The 'Description' field is empty, and there are no attachments. The 'Activity' section shows no comments yet. The 'People' section includes options to 'Assign to me', 'Stop watching this issue', and 'View on Board'. The 'HipChat discussions' section prompts the user to connect to HipChat.

Wires Fund Transformation / WFT-117  
Develop the submit button.

9 of 125  
Return to search

Edit Comment Assign To Do In Progress Done Admin

**Details**

Type:	Task	Status:	10 00 (View workflow)
Priority:	Medium	Resolution:	Unresolved
Affects Version/s:	None	Fix Version/s:	None
Labels:	WFT		

**Description**  
Click to add description

**Attachments**  
Drop files to attach, or browse.

**Activity**  
All Comments Work log History Activity  
There are no comments yet on this issue.

**People**  
Assignee: Unassigned  
Assign to me  
Reporter: Ashish Anand [Administrator]  
Votes: 0  
Watchers: 1 Stop watching this issue

**Dates**  
Created: 3 days ago  
Updated: 1 minute ago

**Agile**  
View on Board

**HipChat discussions**  
Do you want to discuss this issue? Connect to HipChat.  
Connect Demos

# 18. JIRA – Email an Issue

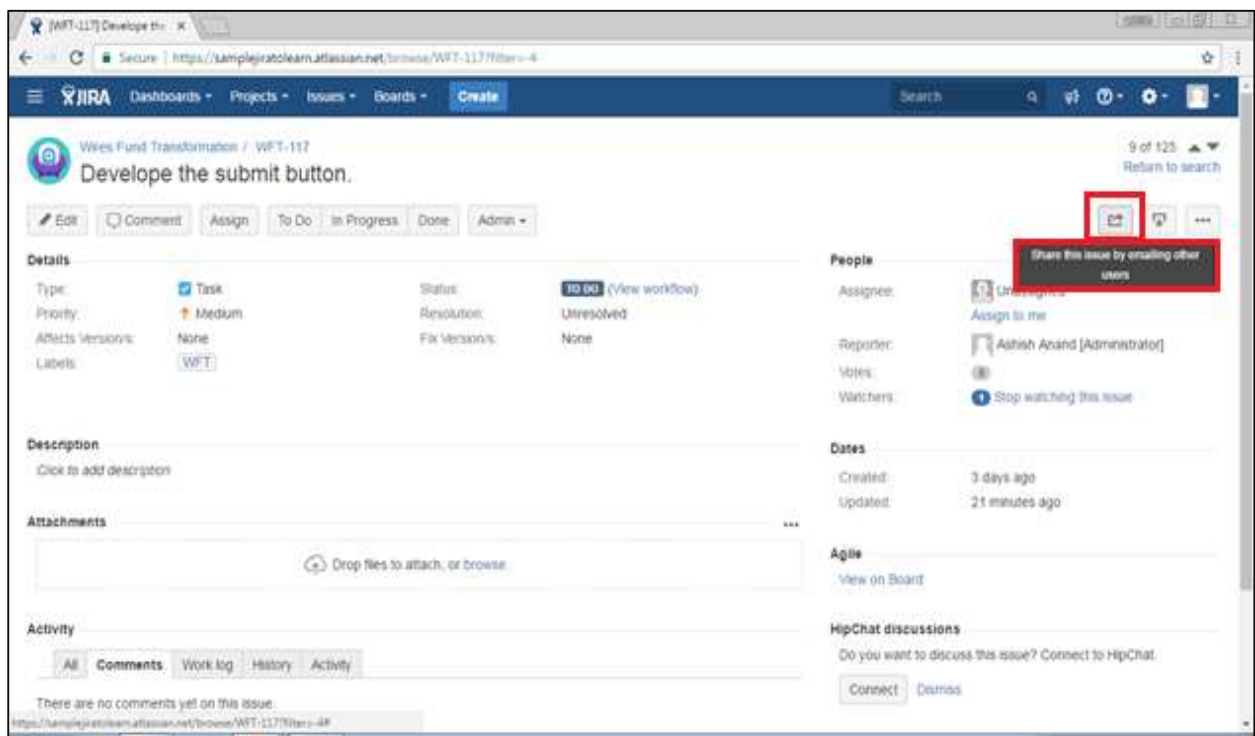
In this chapter, we will learn how to email an issue in JIRA. A user can email an issue to other JIRA users. There are two ways to do it –

- By share an issue and
- By mention these users in issue's Description or Comment field.

Let us now discuss each of these in detail.

## Sharing an Issue

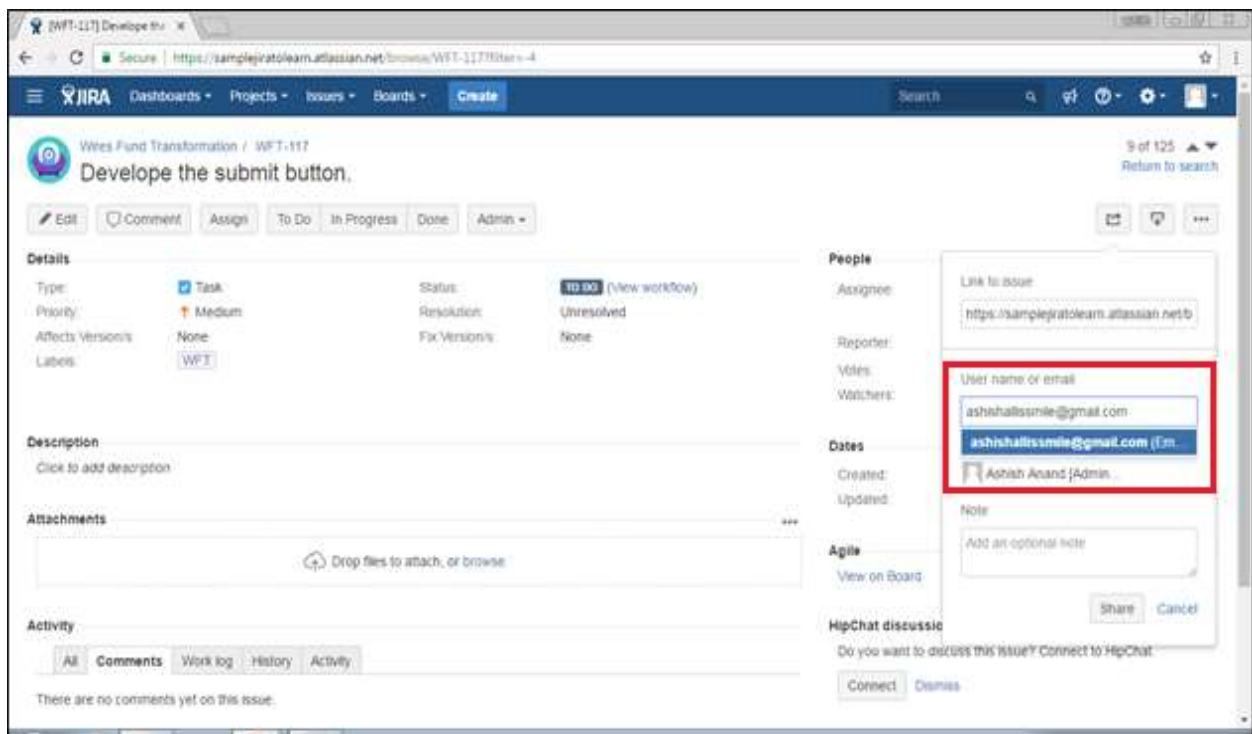
To begin with, the user should navigate to the issue that is required to share and click to view the issue. Click on the **Share Symbol** on the top right hand side of the page. The following screenshot shows where the sharing option present at issue page:



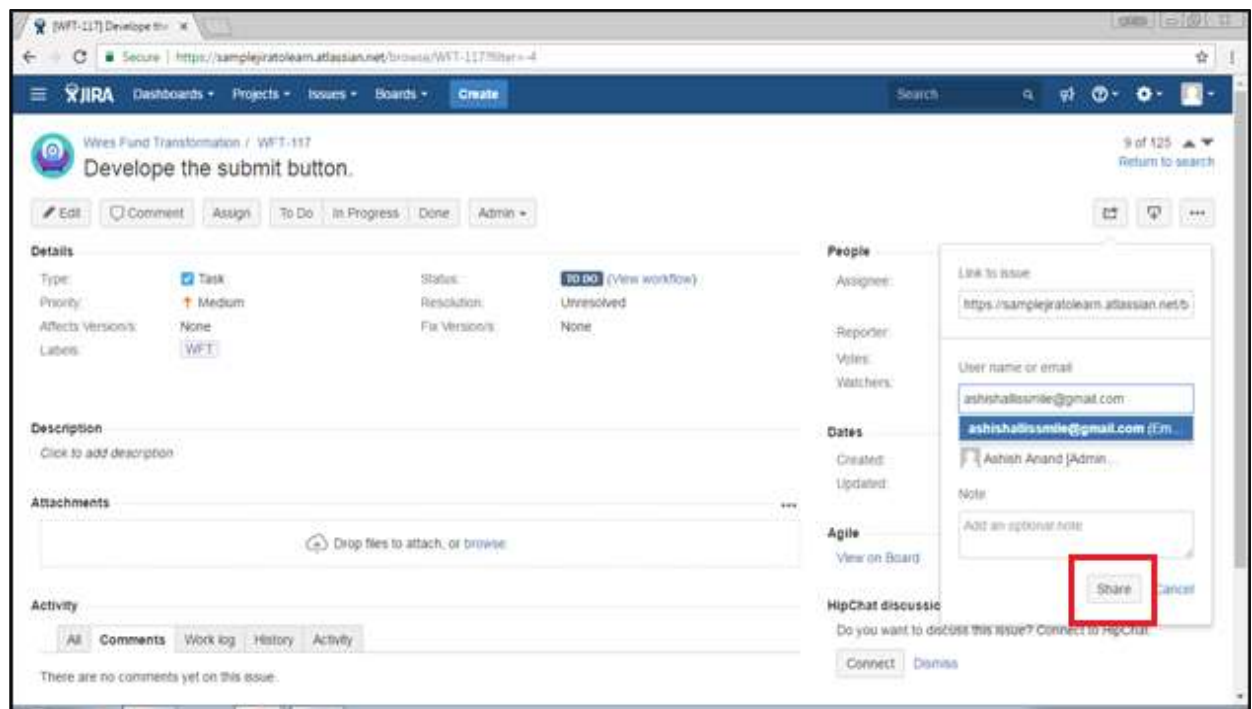
You can write the JIRA users' name by typing their usernames or partially/all of their full names as registered with JIRA or type the email addresses of the individuals with whom you would like to share the issues.

When the user starts typing a JIRA user's username or name, or a previously specified email address, an auto-complete dropdown list of users appears.

The Following screenshot shows how to provide email addresses or select from the auto-completion suggestions.



Add optional note. Click on the Share button present in the Share wizard section. The following screenshot shows how to share/email an issue to a user.



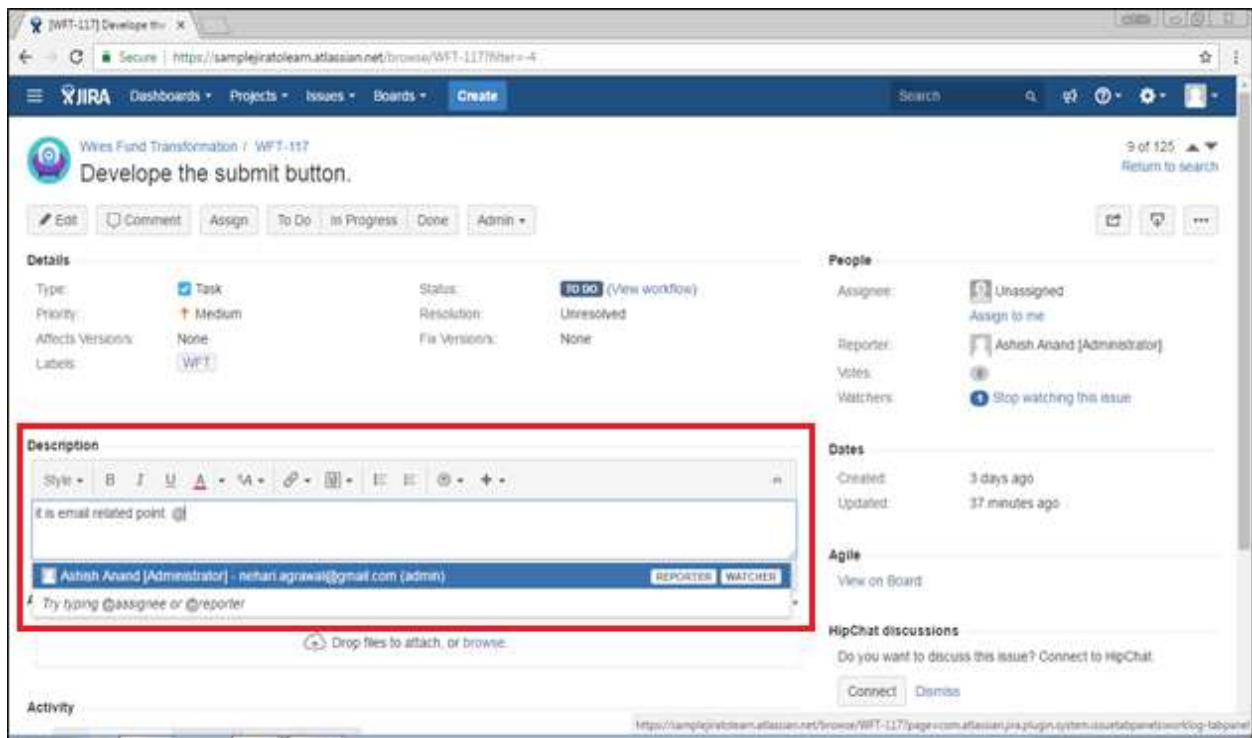


## Mention Users in Description / Comment

In the issue's **Description** or the **Comment** field, type '@' and then the first few characters of the JIRA user's username or partially/all of their full name as registered with JIRA.

As the user starts typing, a list of suggested users will appear in a dropdown list below the field. The user should select based on the referenced users by completely typing the JIRA user's username or choose from the list of suggested users in the dropdown list.

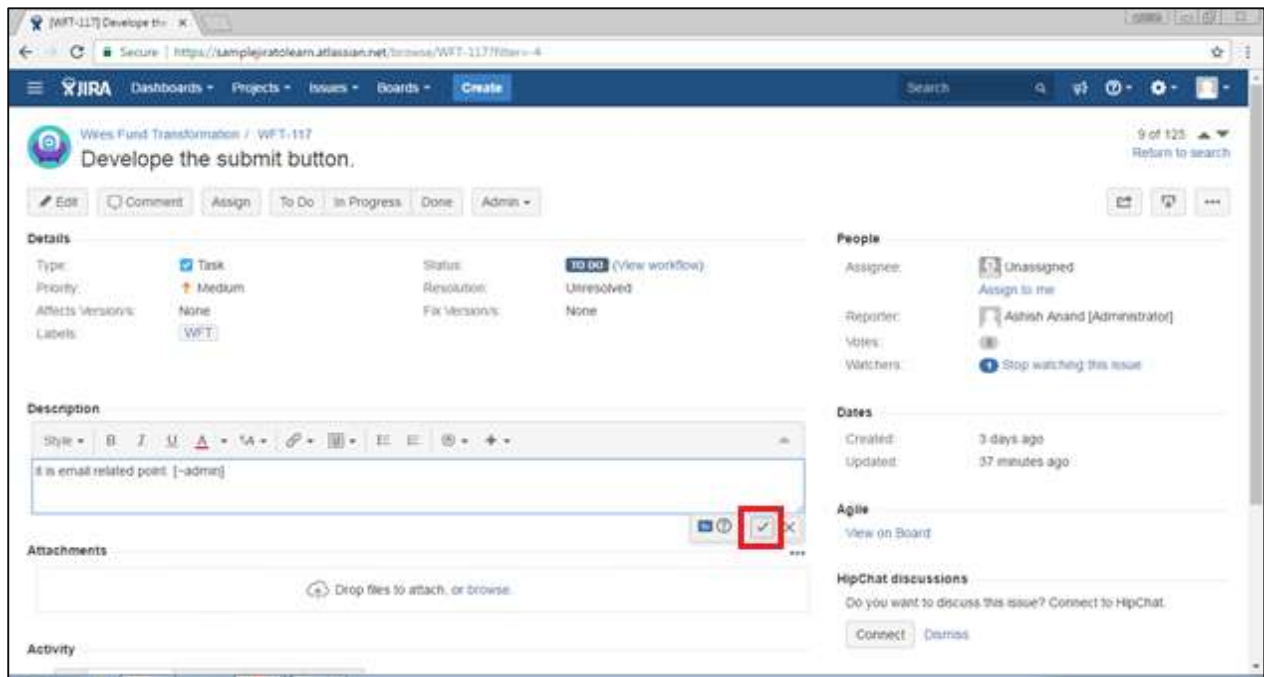
The following screenshot shows how to mention the user's name/email in the description.



Click on submit the field. JIRA will send that user an email message indicating that you mentioned them on that issue.



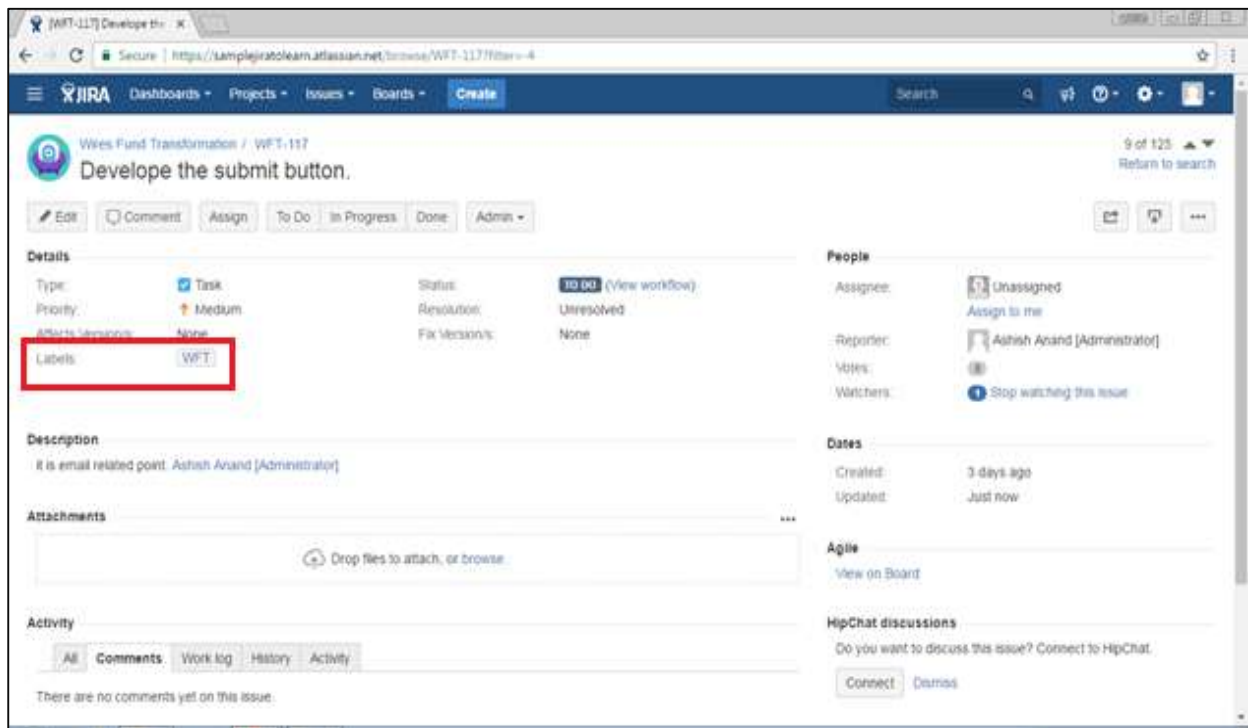
The following screenshot shows how to submit mentioning the user's email in the description.



# 19. JIRA – Label an Issue

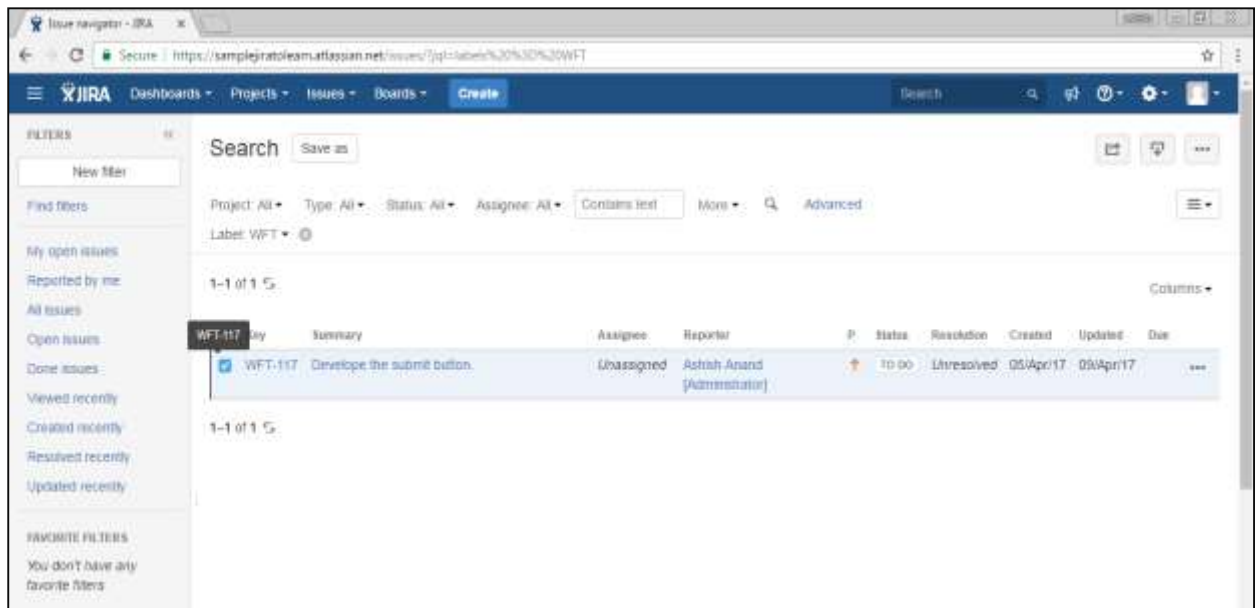
A Label is used to categorize an issue. It is similar to the hashtag (#) used in twitter, Facebook or other social sites. It also helps while searching an issue. While viewing an issue, the label appears in the detail section of the issue.

The following screenshot shows where the labels are present in the issue detail page.



Once the user clicks on the label i.e. WFT, it will display the list of issues having the same label.

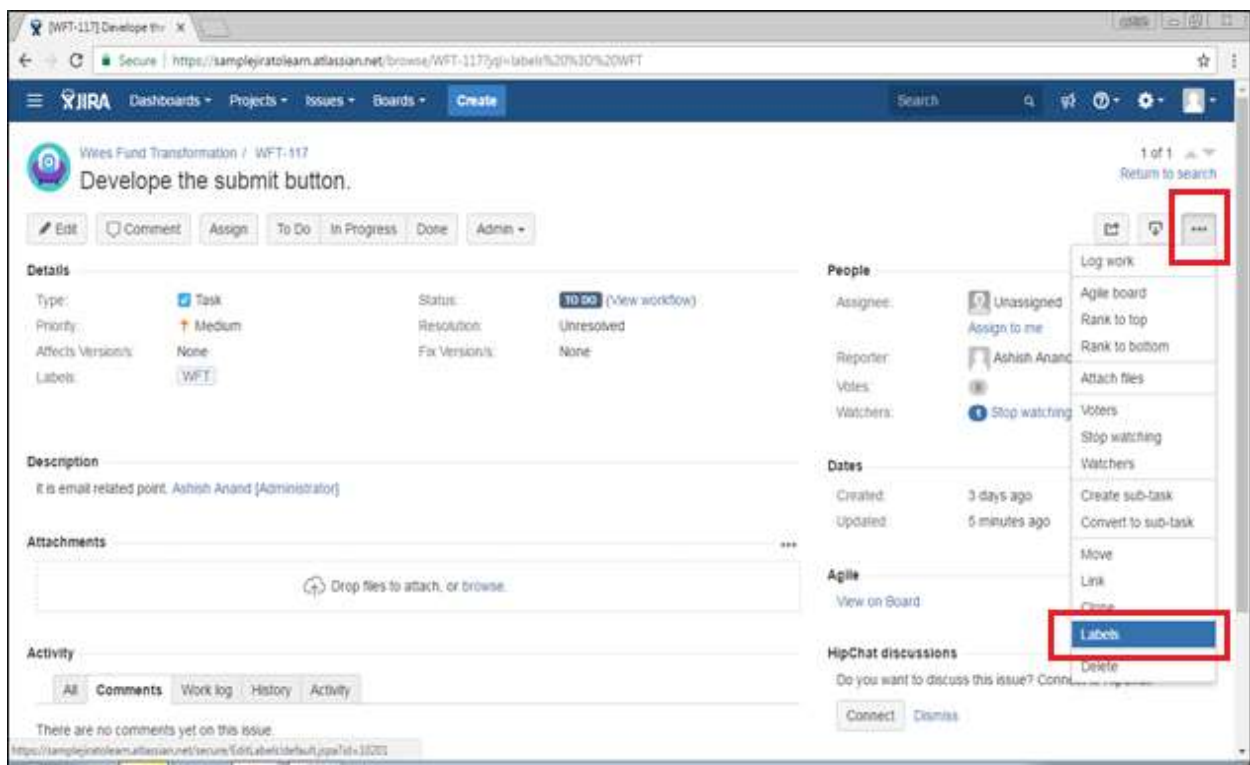
The following screenshot shows how to search issues using label names:



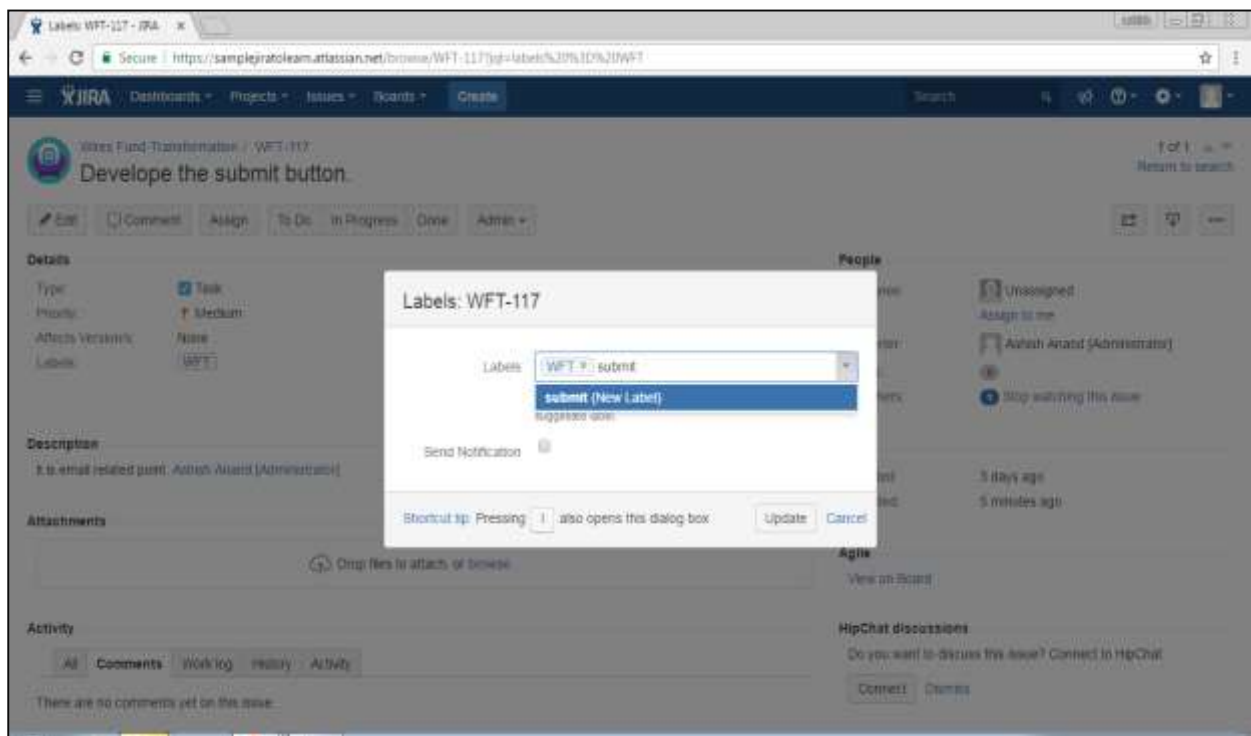
## Add and Remove Labels

To add or remove labels, a user has to go to the View Issue page and select the issue that needs to add labels. Click on More → Labels. A dialogue box will appear.

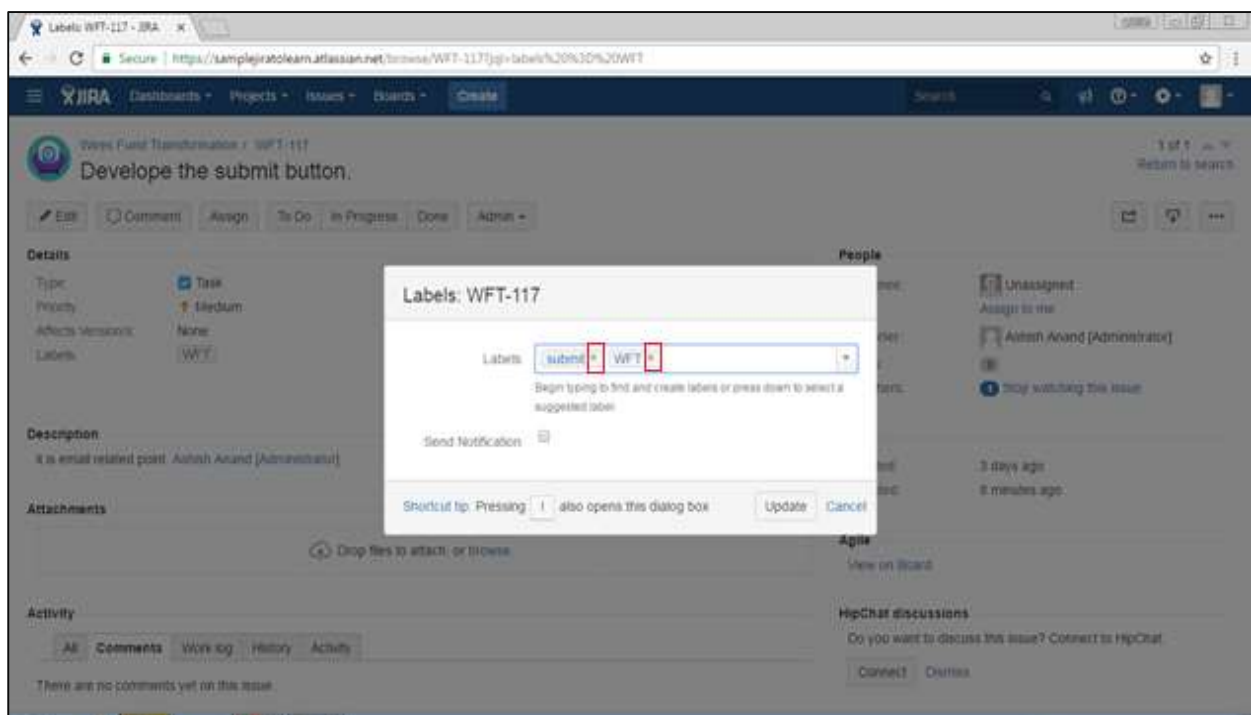
The following screenshot shows how to access the Label features.



Start typing the label and select from the suggestions. The following screenshot shows how to add labels.

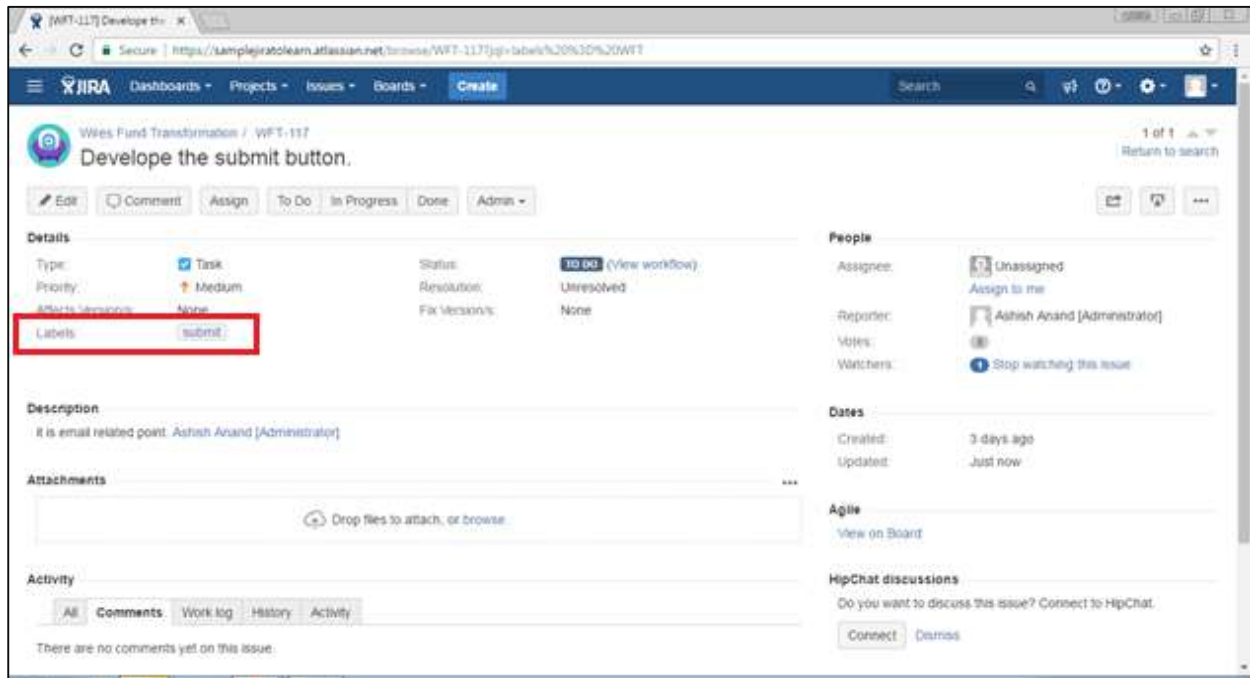


To '**Delete**' a label, click on the close (x) sign, which appears beside the label name. The following screenshot shows how to delete an existing label:



Click on the Update button. Labels are added / removed from an issue and can be verified in the **Detail Section** of the View Issue Page.

The following screenshot shows where to verify the updated labels.



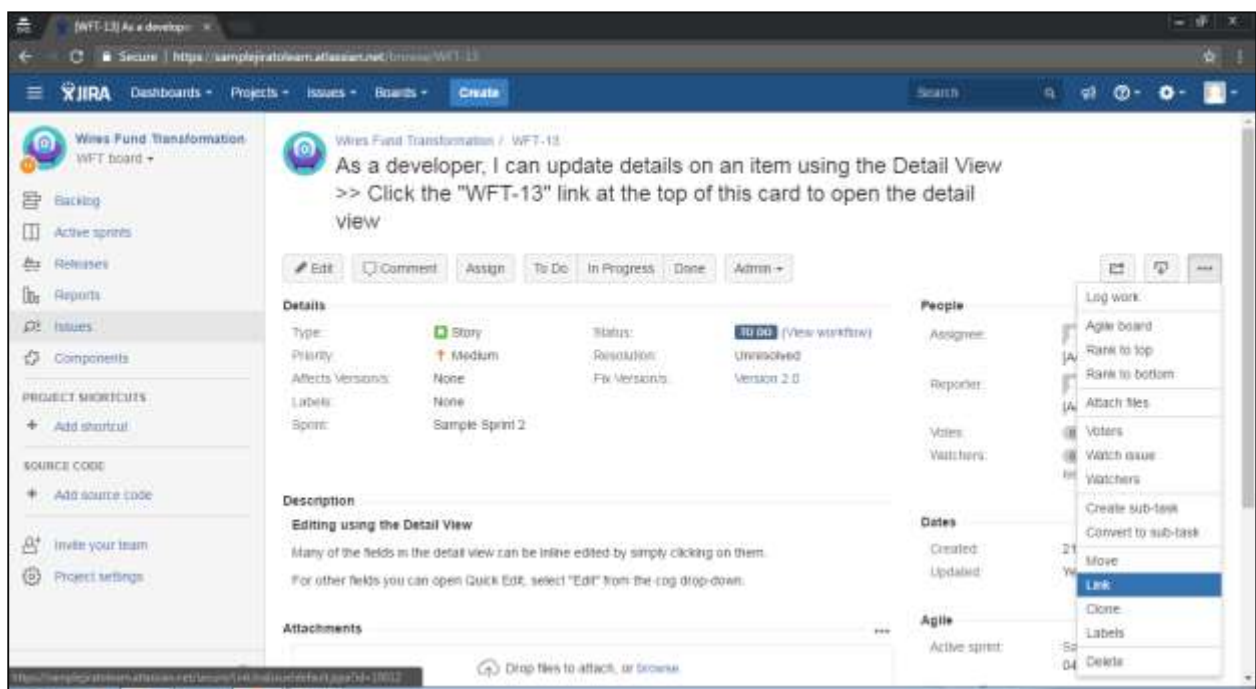
## 20. JIRA – Linking Issues

This feature is very useful when two issues have some type of a dependency on each other as if they are duplicates or relate to each other, upstream downstream dependency or blocking issues.

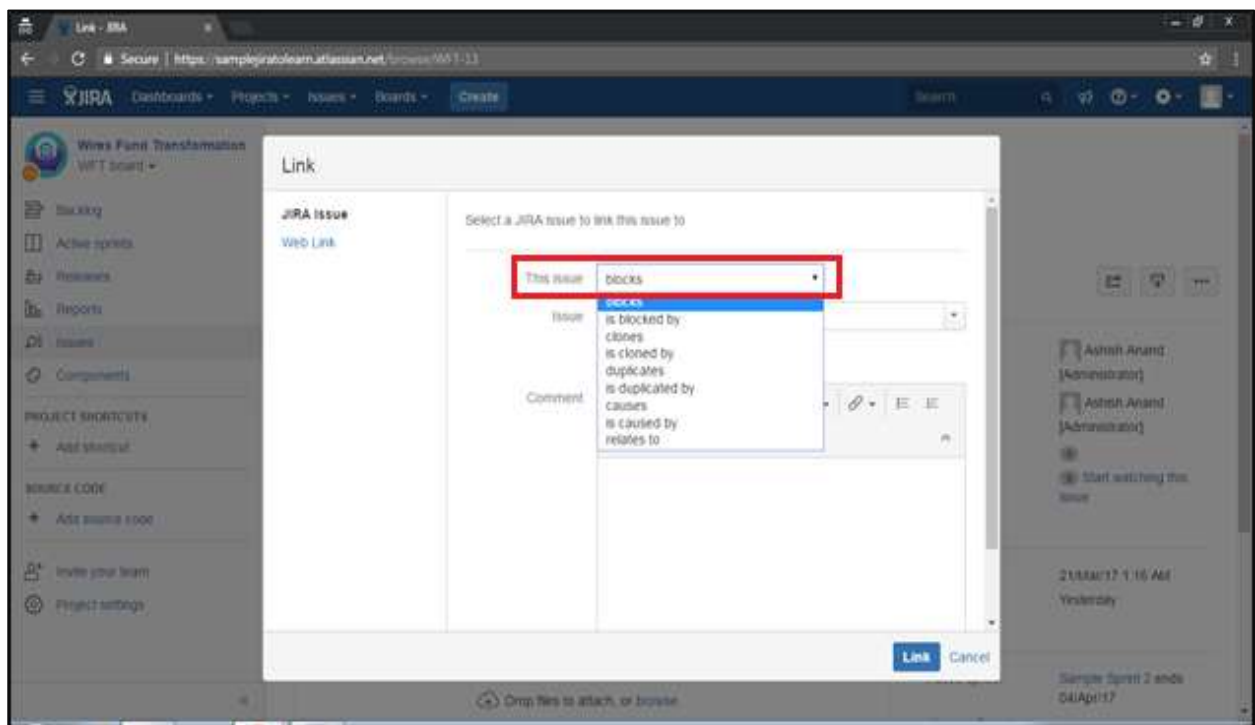
### Create a Link to Another Issue

For creating a link to another issue, the user has to navigate to the issue and click on the View Issue Page. After that, click More → **Link** to display link dialogue page.

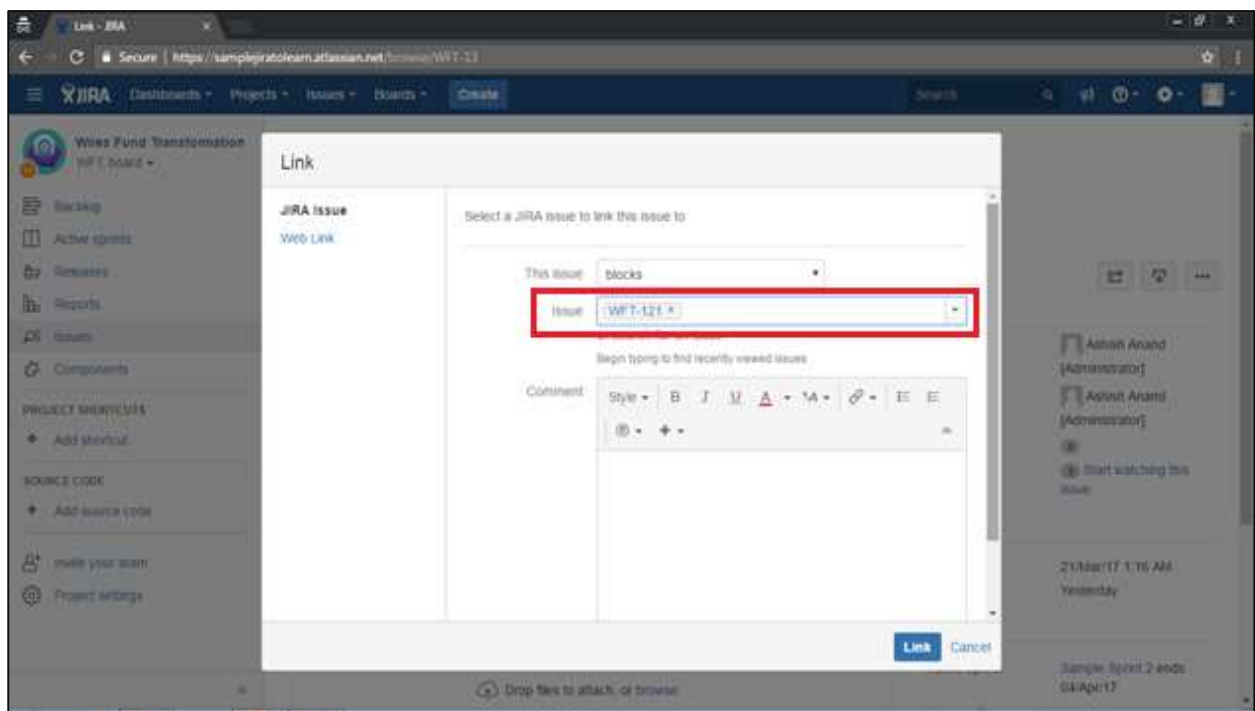
The following screenshot shows how to access Link feature:



Select JIRA Issue item in the left side of the dialogue and select "This issue" field from the dropdown list. The following screenshot shows how to link an issue by providing the details.



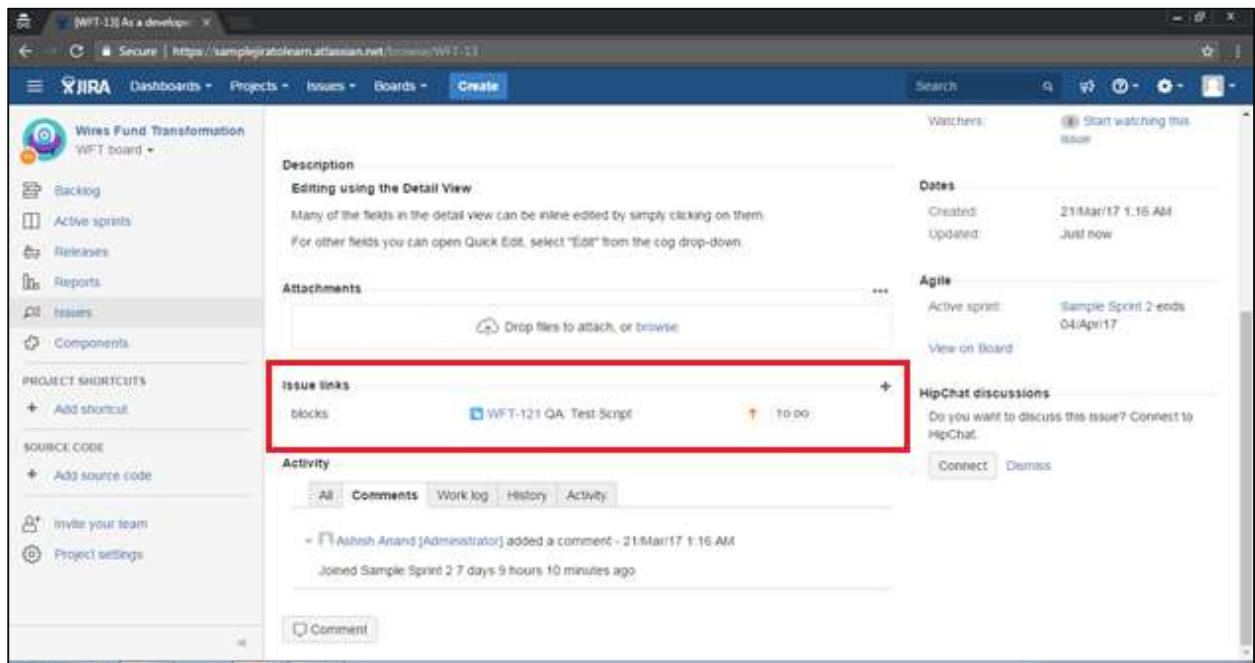
The next step is to select/search issue. The following screenshot shows how to add an issue as a link in another issue.





Add the comment; it is optional and then Click on **Link**. The View Issue page shows up and the user can go down and verify whether the linked issue is displayed or not under the Section Issue links.

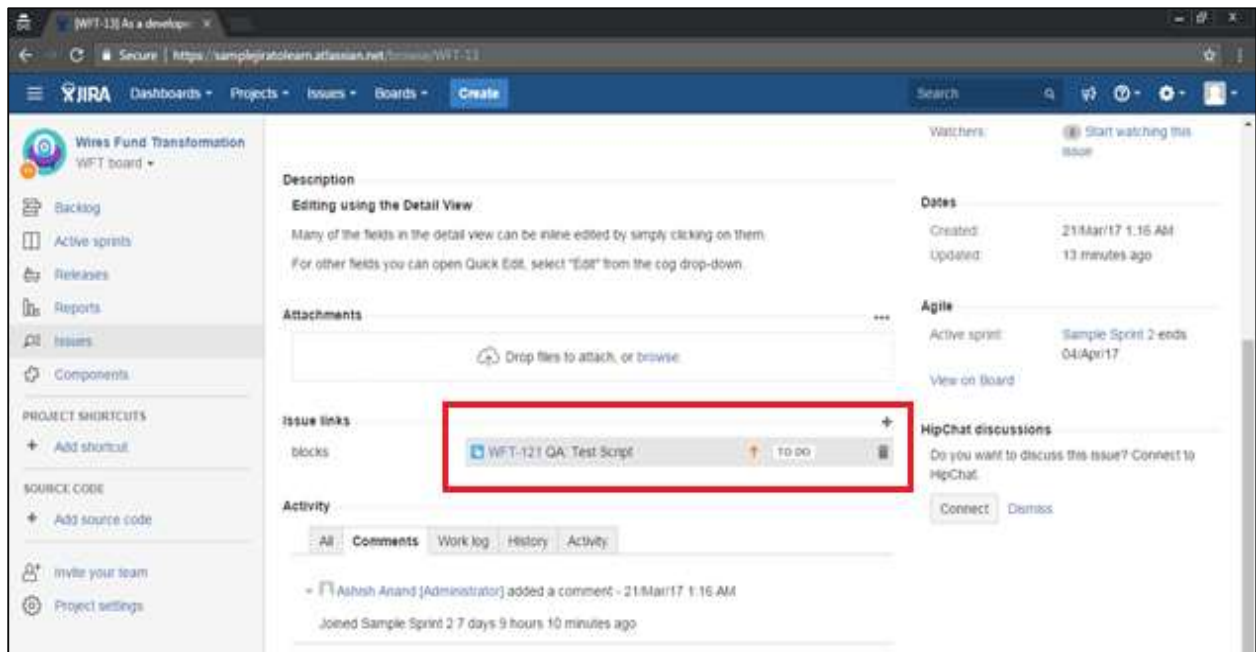
The following screenshot shows how to view linked issue in parent issue:



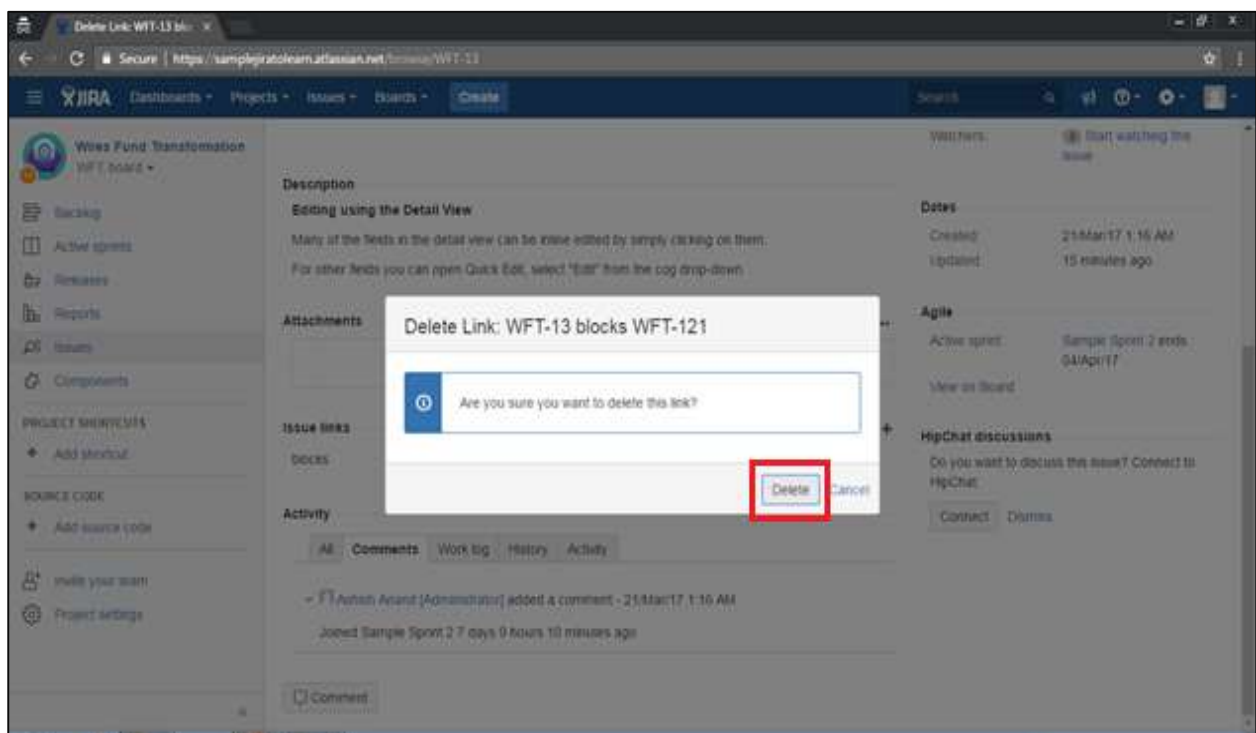
## Deleting a Link

To delete a link, a user should go to the View Issue page and to that issue which contains the links. Scroll down and go to Issue Links section. Hover the mouse over the link that should be deleted and then click on the Delete icon.

The following screenshot shows how to delete a link:



A confirmation pop-up will display; click on the Delete button. The following screenshot shows the confirmation pop-up for deletion.

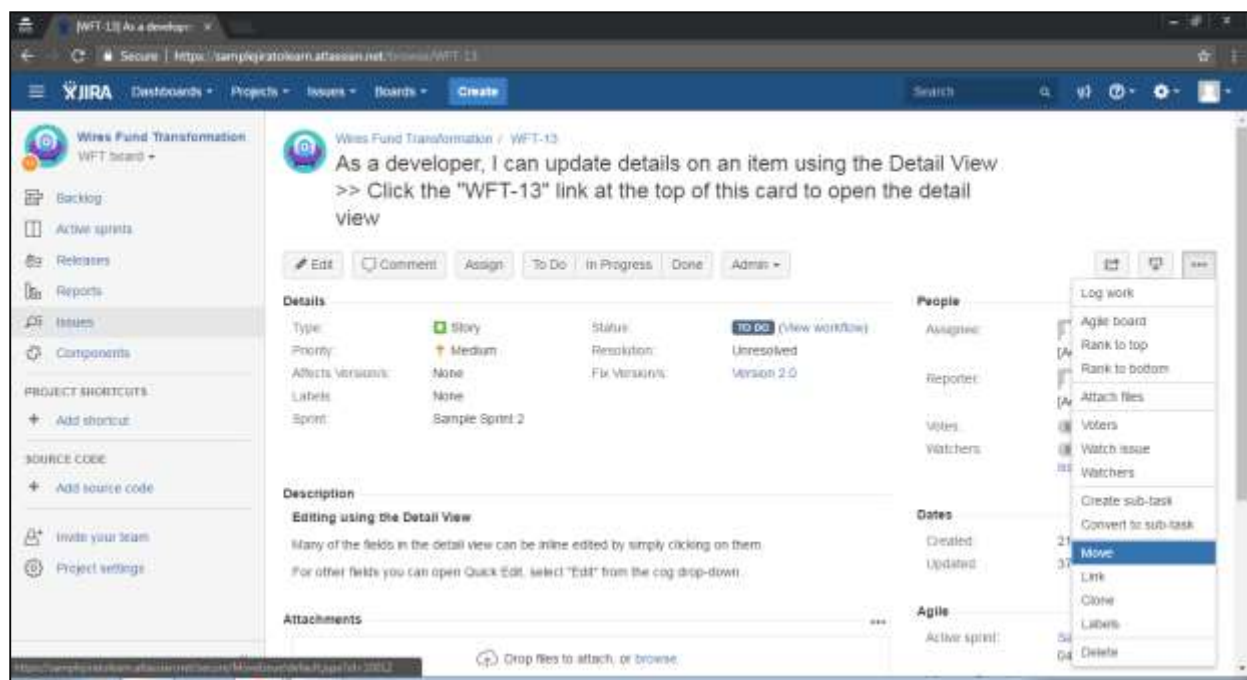


# 21. JIRA – Move an Issue

JIRA has a feature to move an issue from one project to another project. Let us understand with the following steps, how a user can do it.

## Steps to Follow

Go to the View Issue page that needs to move into another project. Select More → Move. The following screenshot shows how to access Move feature:



In the first step of the **Move Issue** wizard, select the new project where the issue will move, and if required/desired, change the issue type. Click on **Next** to continue.

The following screenshot shows Select Project and Issues step to move:

The screenshot shows the 'Move Issue' wizard in JIRA. The left sidebar contains a list of steps: 'Select Project and Issue Type' (selected), 'Select New Status', 'Update Fields', and 'Confirmation'. The main content area displays the following information:

- Move Issue:** WFT-13 - As a developer, I can update details on an item using the Detail View >> Click the "WFT-13" link at the top of this card to open the detail view
- Step 1 of 4:** Choose the project and issue type to move to ...
- Select Project:**
  - Current Project: Wins Fund Transformation
  - New Project: Software Enhancement (RE)
- Select Issue Type:**
  - Current Issue Type: Story
  - New Issue Type: Story
- Buttons: Next >>, Cancel

At the bottom, it says 'Powered by Atlassian' and 'Terms of use', 'Answers', 'Maintenance schedule'.

If there is a need to change the status of the issue, the user can go to Select Status page. Select the new status for the issue and click on the Next button to continue.

If required to specify the values for any required custom fields, the Update Fields page is displayed. Specify the desired values for each field, and click on Next to continue.

The following screenshot shows the Update Fields step, if required before moving an issue.

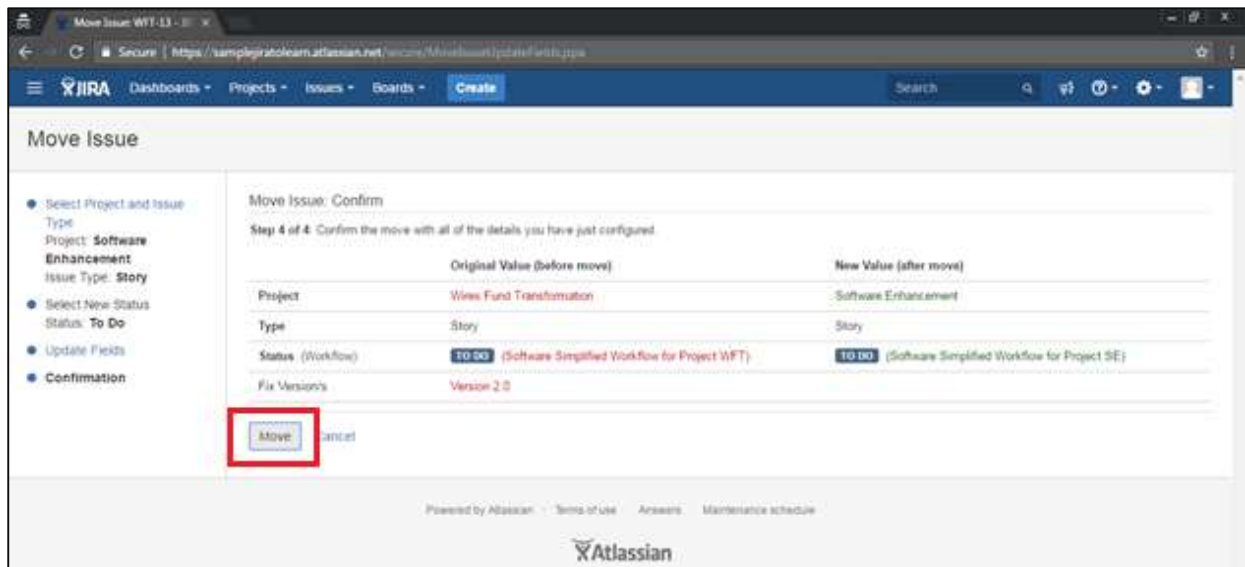
The screenshot shows the 'Move Issue' wizard in JIRA, specifically the 'Update Fields' step. The left sidebar shows the progress: 'Select Project and Issue Type' (completed), 'Project: Software Enhancement', 'Issue Type: Story', 'Select New Status' (selected), 'Status: To Do', 'Update Fields' (current step), and 'Confirmation'. The main content area displays the following information:

- Move Issue: Update Fields**
- Step 3 of 4:** Update the fields of the issue to relate to the new project.
- Note:** Step 2 is not required
- Fix Versions:** None
- Buttons: Next >>, Cancel

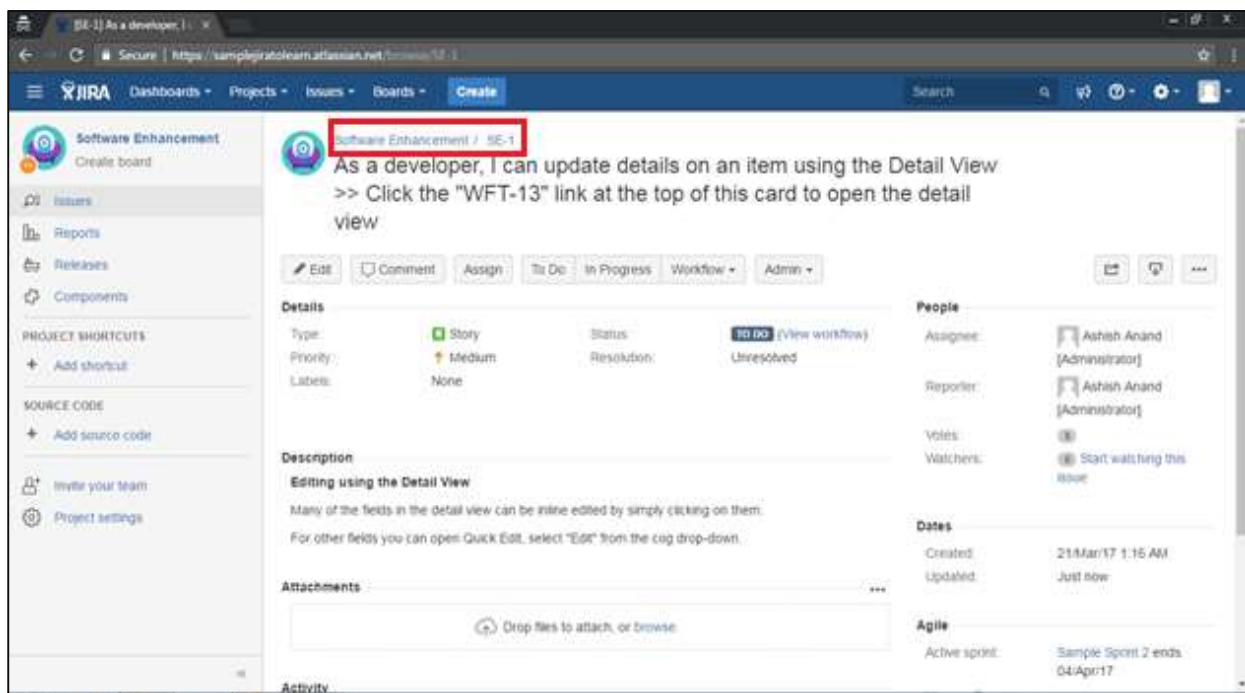
At the bottom, it says 'Powered by Atlassian' and 'Terms of use', 'Answers', 'Maintenance schedule'.

The confirmation page will display with all the changes. If a user wants to revise any of the changes, click the appropriate step in the left hand side menu to return to that page of the wizard. After that, click on the **Move** button to move the issue to the target project.

The following screenshot shows confirmation step to confirm details before moving:



The Issue will be moved to the target project and displayed on screen. This Issue can be further edited to make additional changes. The following screenshot shows a new project and an issue type after the successful moving an issue.



## 22. JIRA – View/Change History

In this chapter, we will learn how to view and change history in JIRAN. History is the record of all the activities performed on issues. Some of the most common instances are –

- Creator of the issue.
- Changes to an issue field.
- Attachment of a file.
- Deletion of comment/Work log.
- Addition/deletion of links.

In a history record, a user can view the following information.

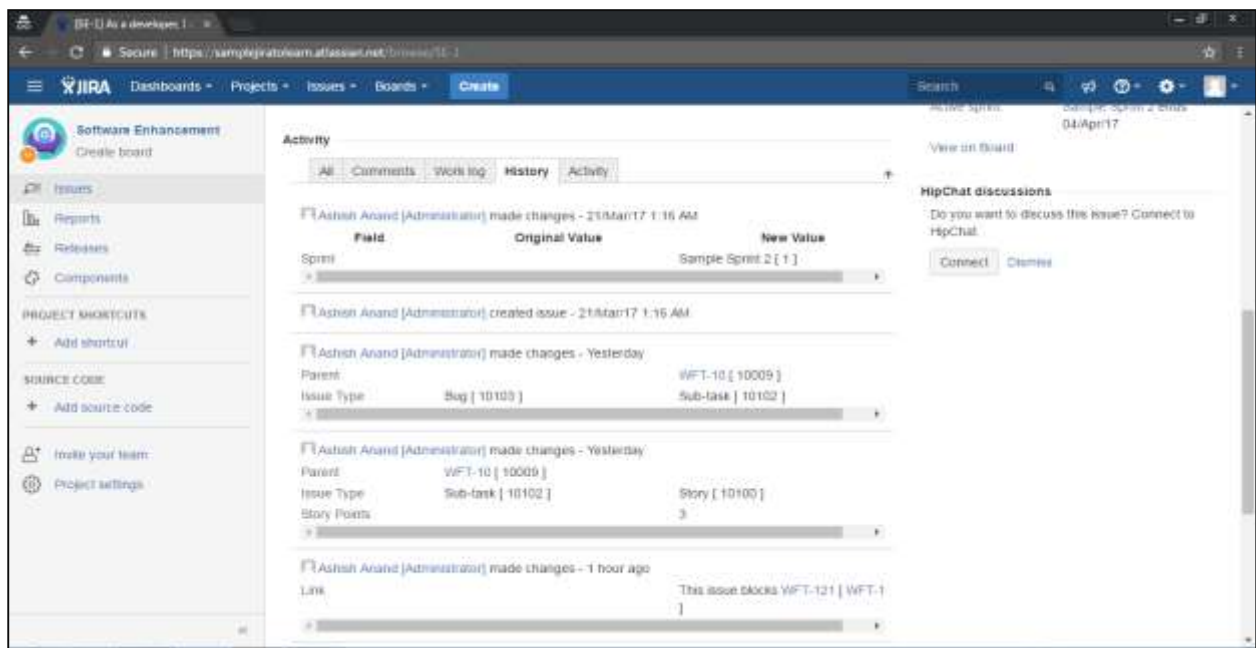
- User name who made the changes.
- Time while the changes was made.
- If an issue field is changed, new and old values of that field.

### Steps to View History

To view history in JIRA, the user should follow the steps given below.

- Go to View Issue Page to see change history.
- Scroll down to Activity section
- Click on History tab.

The following screenshot shows how to view History.





## 23. JIRA – Watch and Vote on Issue

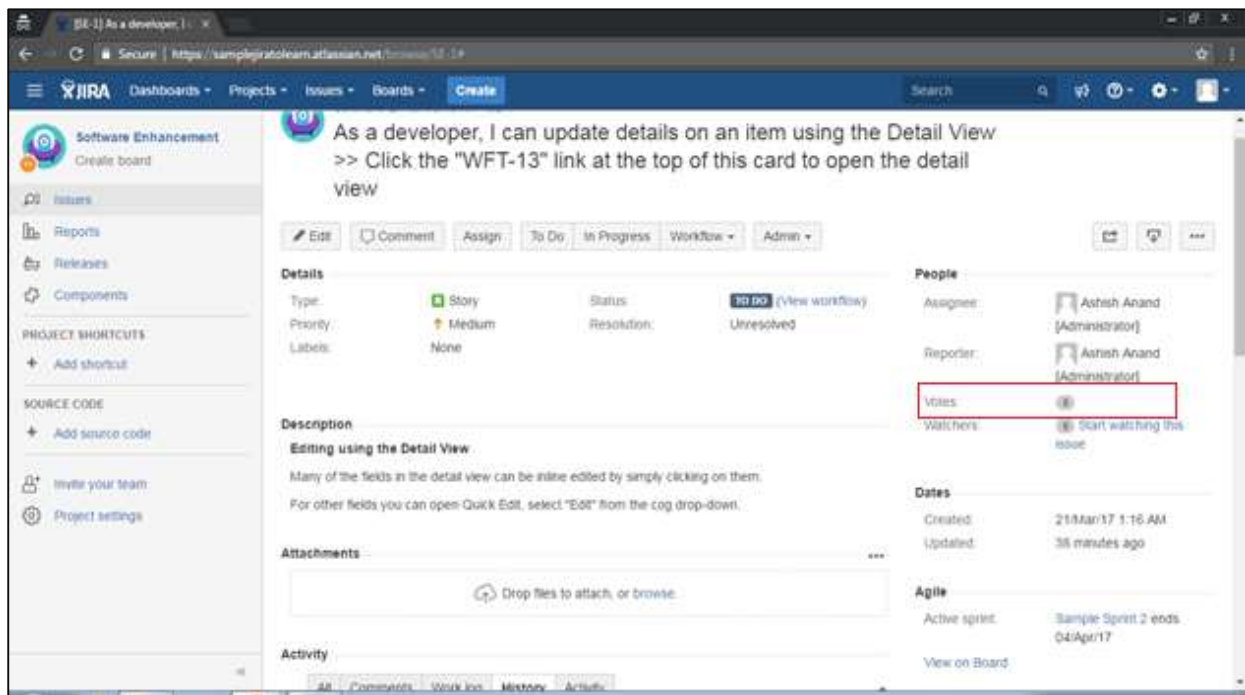
In this chapter, we will understand how Voting and Watching is done on an issue in JIRA.

### Voting on an Issue

JIRA has a feature called as Vote to provide the opinion on the preference for that issue, whether it is resolved or completed.

- Admin needs to add permission for users to use this feature.
- Go to the View Issue page where voting is required.
- Click Vote for this issue to instantly vote for that issue.

The following screenshot shows where Votes field is present at issue detail page:



**Note:** Since the user does not have permission here to vote, the user is not able to view the link beside Votes field.

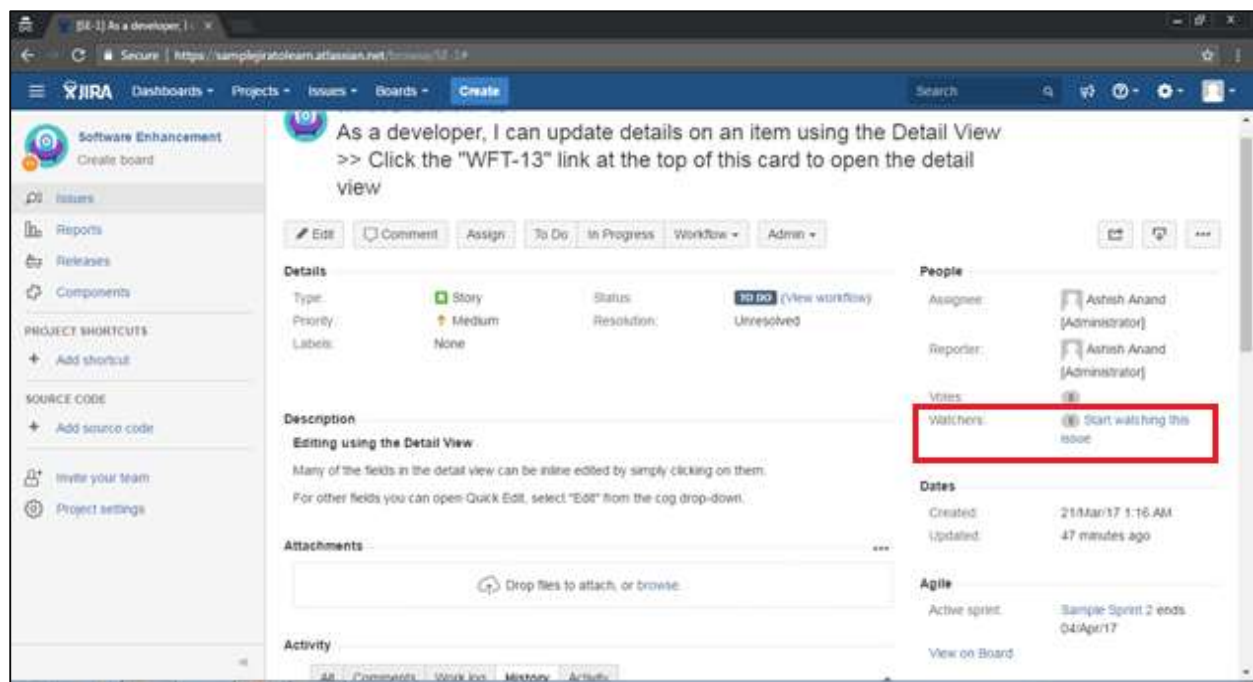


## Watching an Issue

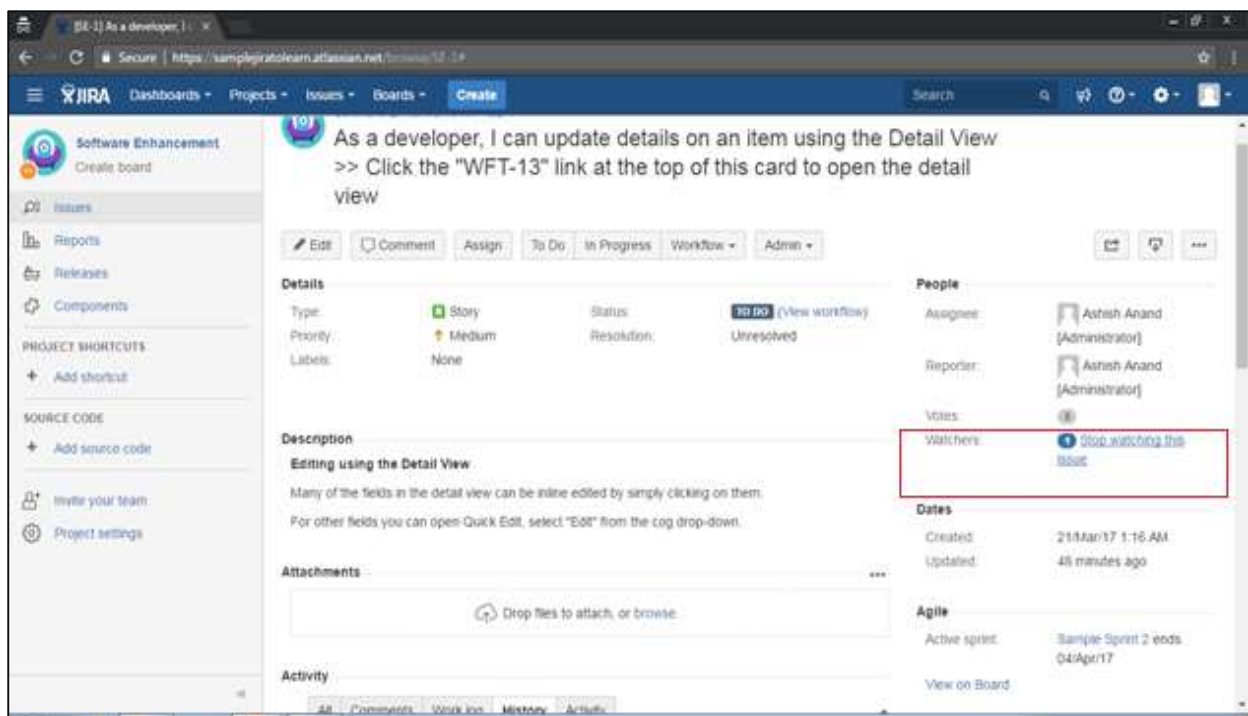
JIRA has a feature that allows users/stakeholders to keep an eye on the issue, whenever there is any update or changes in that issue. If there is any the issue, it sends notification/emails to those who are listed as watchers for that specific issue.

- Admin needs to add permission for users to use this feature.
- Go to the view issue page that the user wants to watch.
- Click on the “Start Watching this issue” link to be listed as watchers.

The following screenshot shows where the **Watchers** field is present in the Issue Detail page.

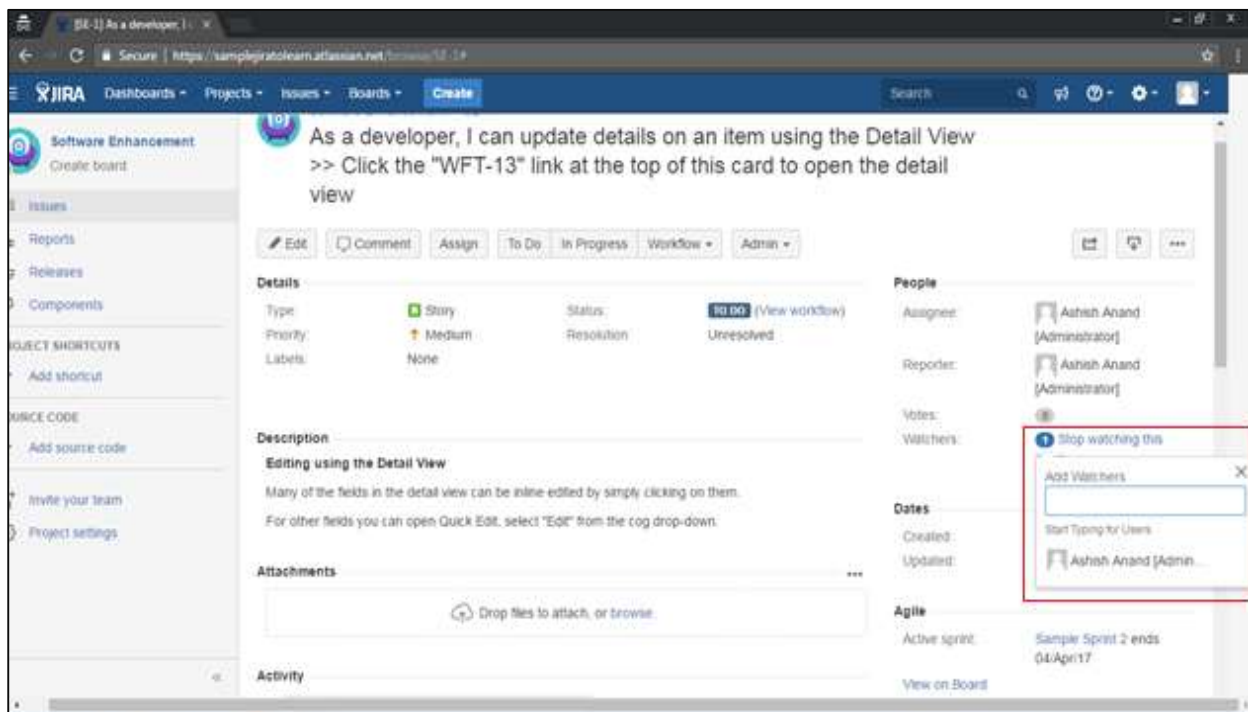


Now instead of zero watchers, there will be **1** (watcher) displayed along with the link “Stop watching this issue” to delist as watchers. The following screenshot shows the updated number of watchers:



The user can click on **1**, it allows to add other users as well to the list as watchers. Start typing the user name in the **Add watchers** box and select from the autocomplete box. The user will be listed as watchers.

The following screenshot shows how to add a new watcher by providing the user's detail.



# 24. JIRA – Search

JIRA has powerful and very efficient search functionalities. A user can search issues across Projects, Versions and Components using various search types. JIRA allows saving the search criteria to utilize next time as filters; even these filters can be shared by others as well.

## Types of Searching Options

JIRA has a couple of fundamental ways to search issues. The most important ones are as follows.

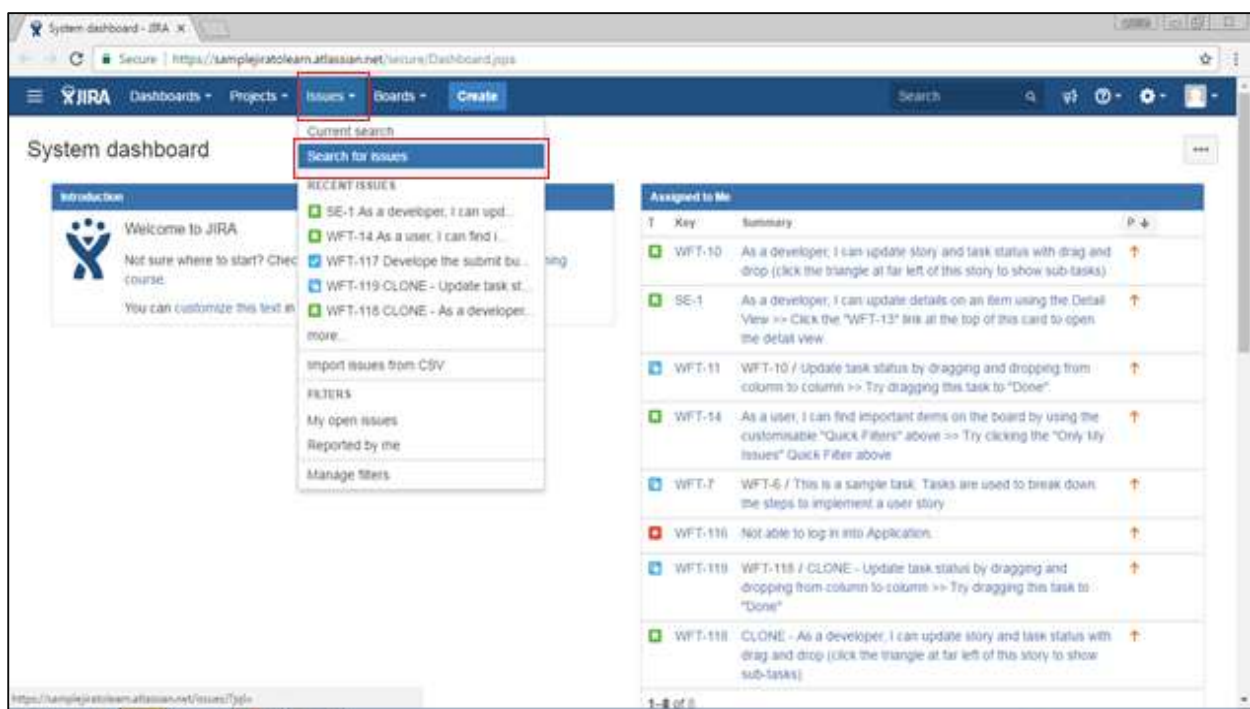
- Basic Search
- Quick Search

Let us now understand both of these search types in detail.

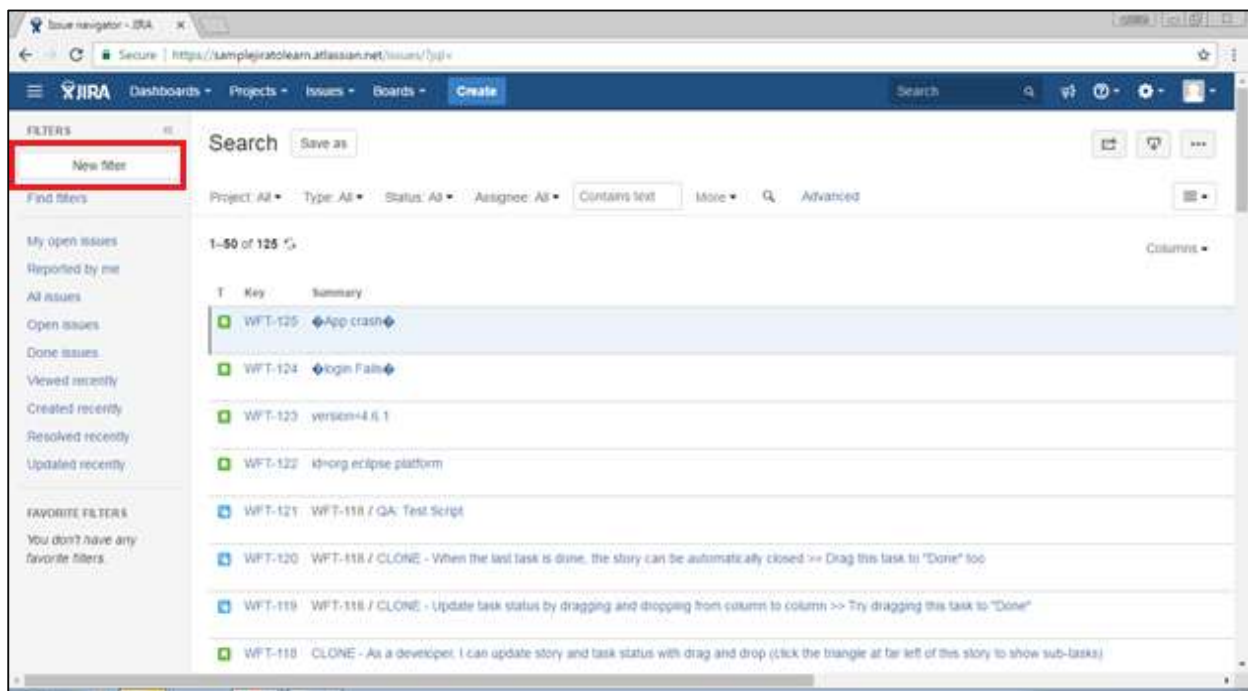
## Basic Search

Basic Search in JIRA is a user-friendly interface that can be used easily to find out the issues. It uses the JQL queries in the backend. To do a basic search in JIRA, the user has to follow the steps given below.

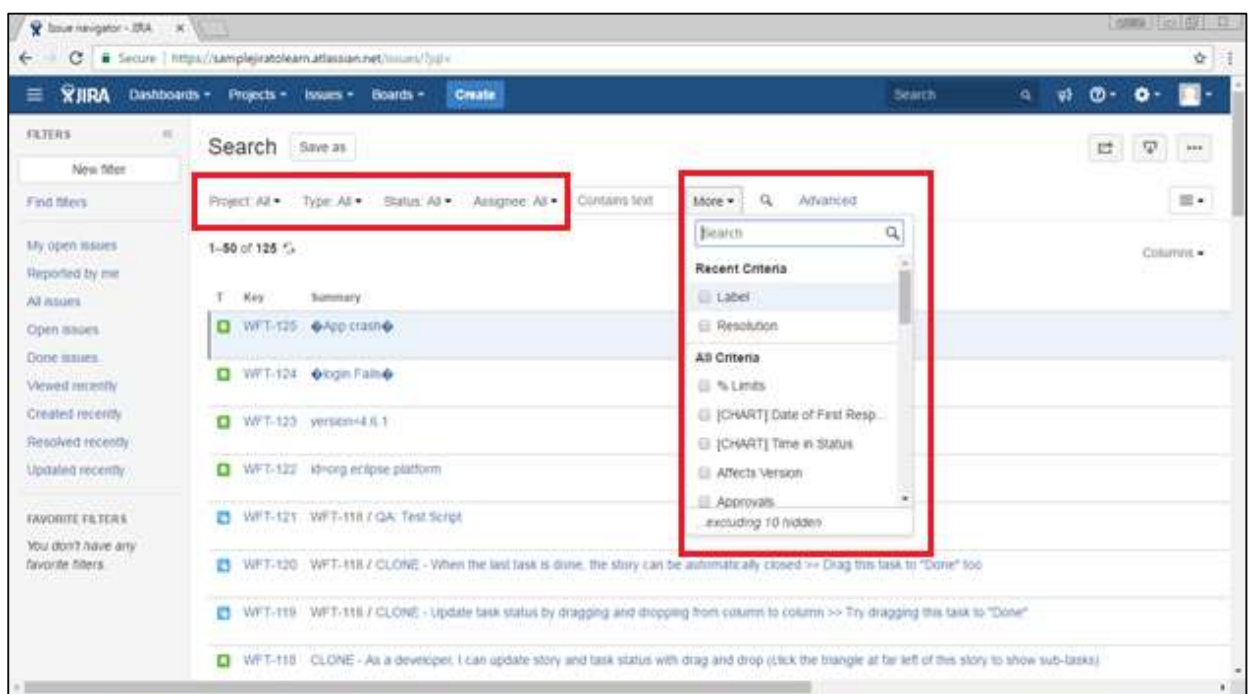
**Step 1:** Navigate to issues → Search Issues. The following screenshot shows how to access the Search for Issues feature:



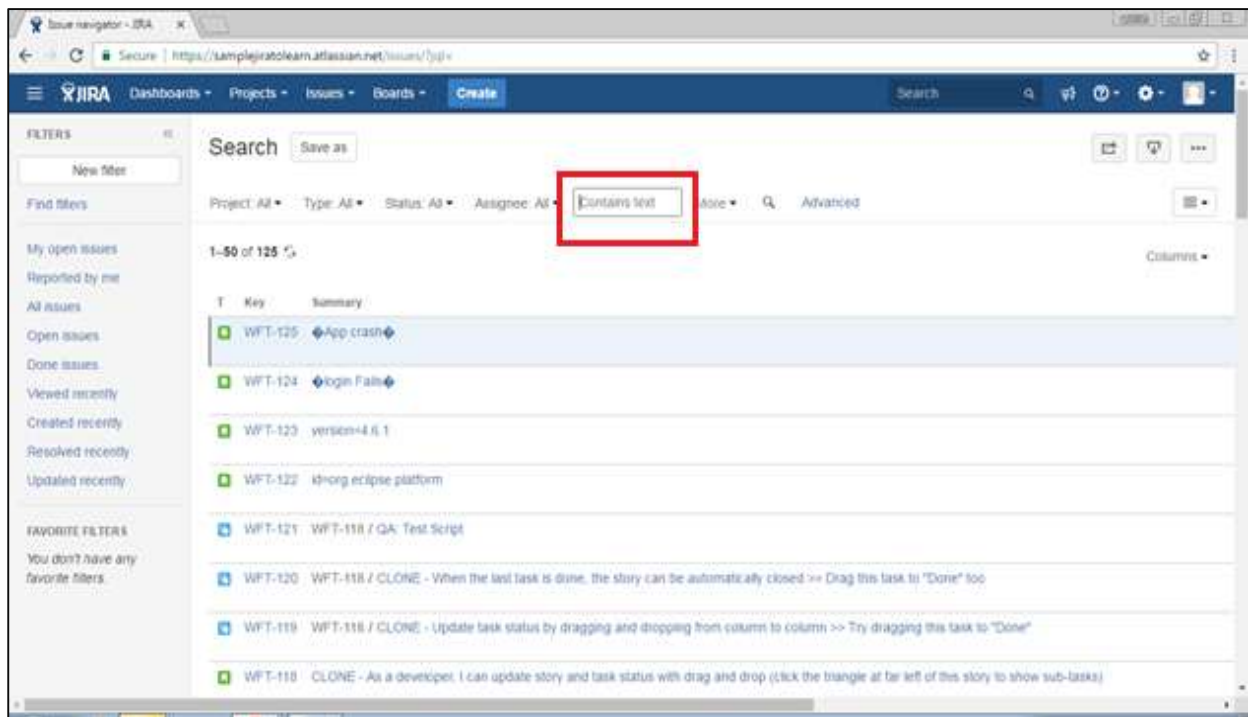
**Step 2:** A search page displays. If it has any existing Search criteria, then click on the New Filter to reset it. The following screenshot shows how to define a new search criteria.



**Step 3:** Set the search criteria against different fields like Project, Type, Status and Assigned. Then click on More and select any field to search with additional fields. The following screenshot shows what all criteria's can be set to search issues:



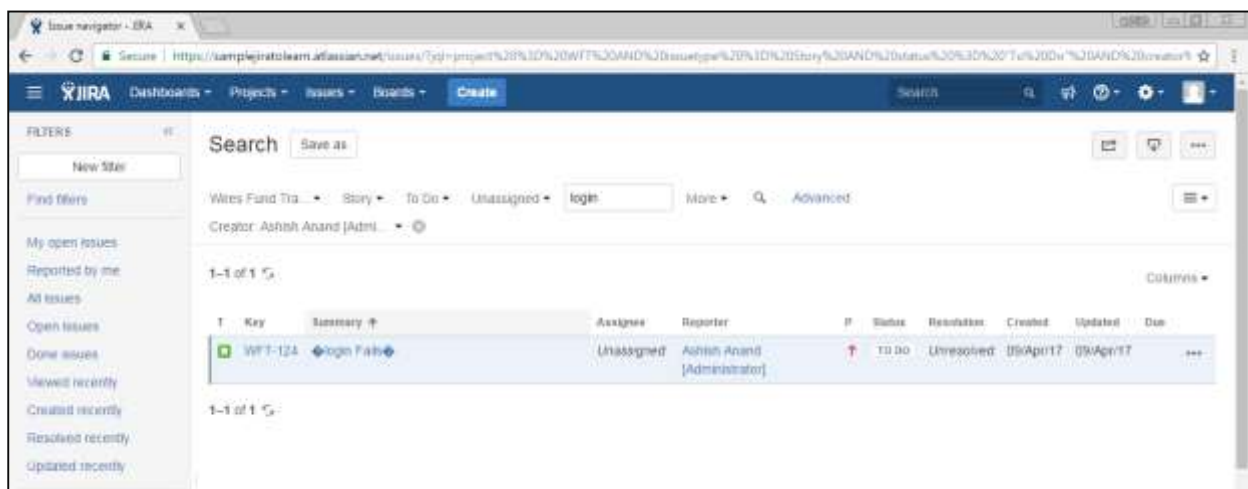
**Step 4:** If the user wants to search against any specific text, keywords, start typing in the **Contains text** box. The following screenshot shows how to search specific text in issues.



**Step 5:** A user can use wildcards or operators in all text based fields to search specific strings. For example:

- Single character wildcard - te?t
- Multiple characters wildcard - win\*
- Boolean operators - "atlassian jira" || confluence

Based on different search criteria, the following result is displayed. The following screenshot shows the list of searched issues.

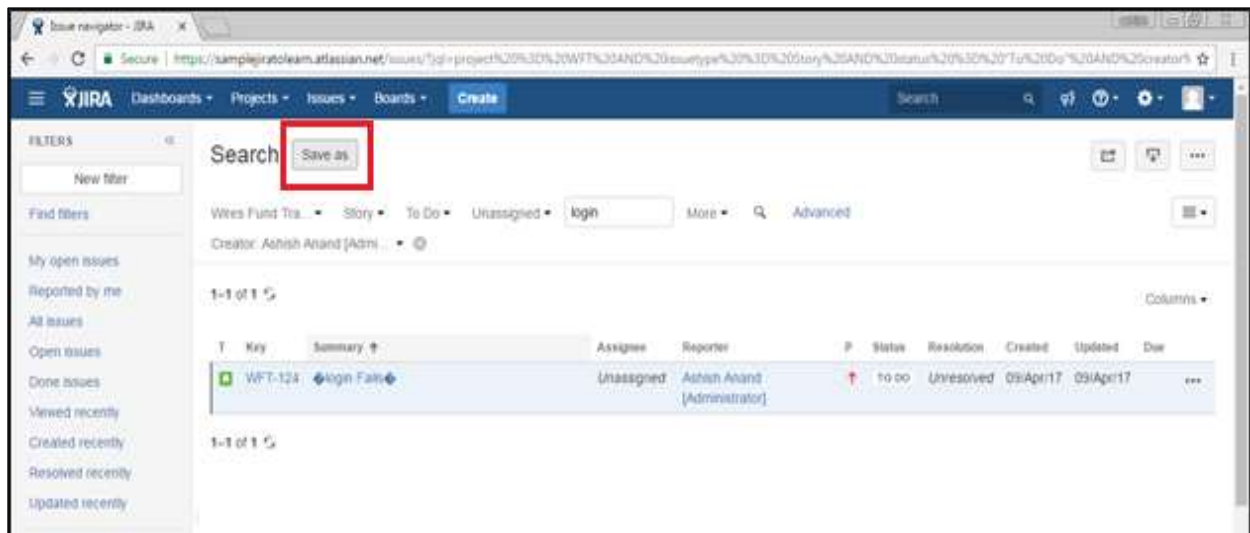




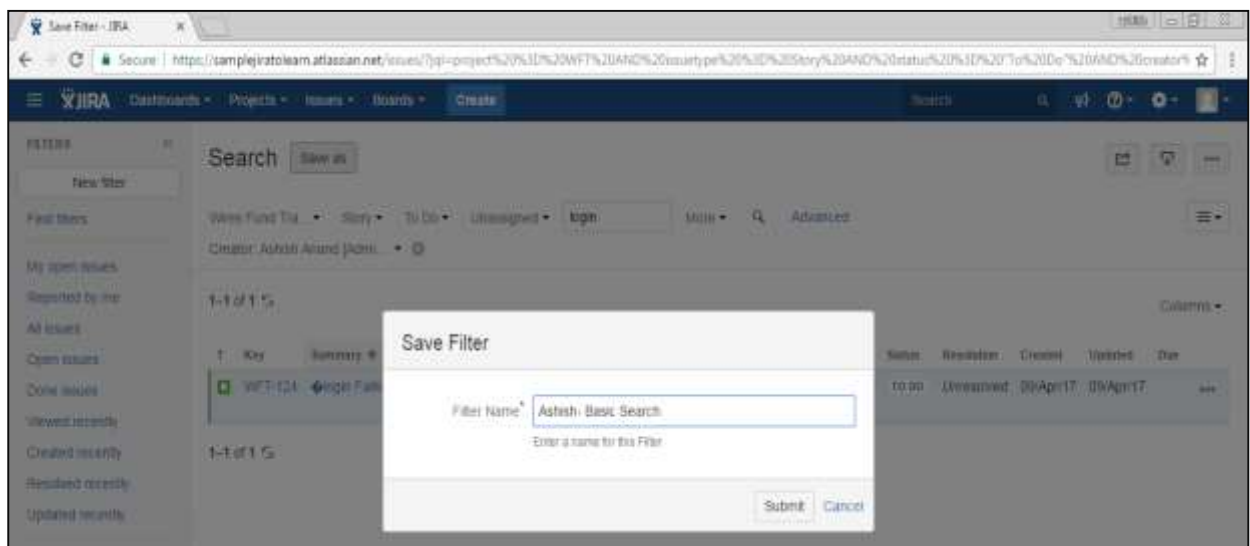
## How to Save a Search

To save the searched criteria, the user should follow the steps given below.

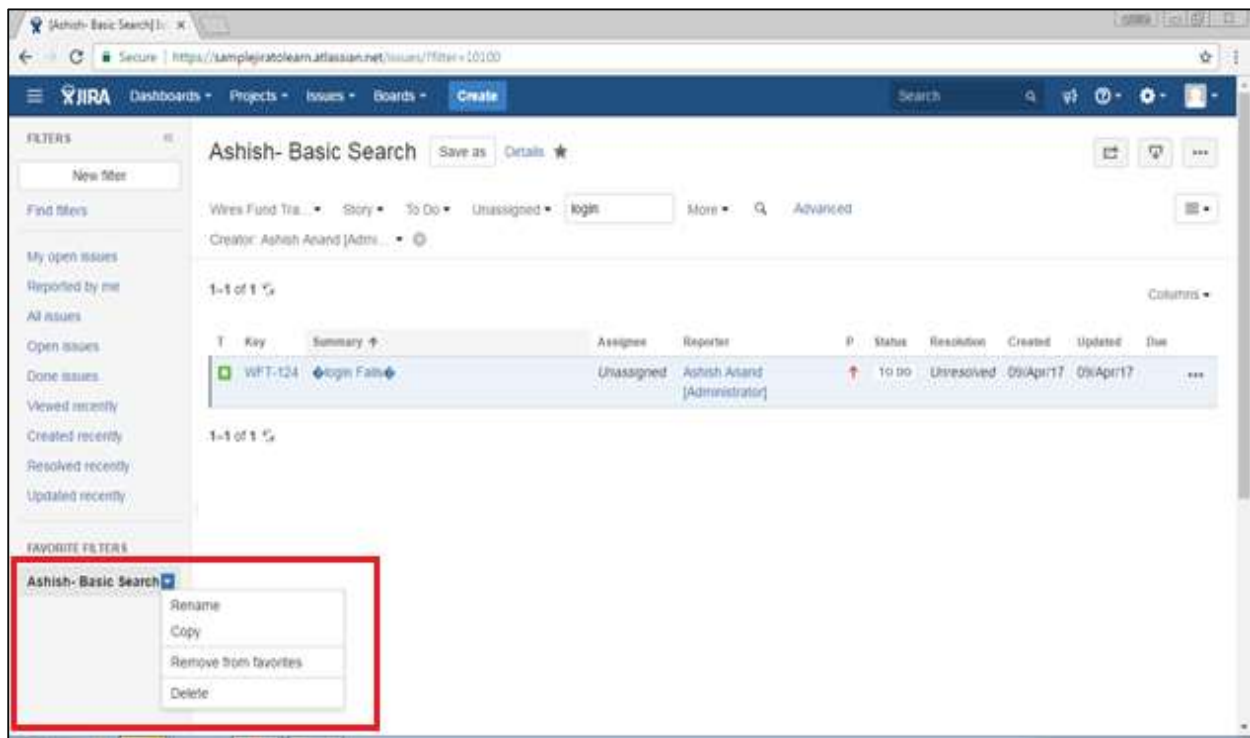
**Step 1:** Click on Save As at the top of the page. The following screenshot shows how to save the search criteria for future use.



**Step 2:** Type the filter name and click on Submit. The following screenshot shows how to provide a name of new search criteria before saving.



**Step 3:** A Filter will appear on the left side of the Search Page under the Favourite filters and it will have a few options like – Rename, Delete, Copy and Remove from Favourites. The following screenshot shows the saved search criteria and the available actions to perform.

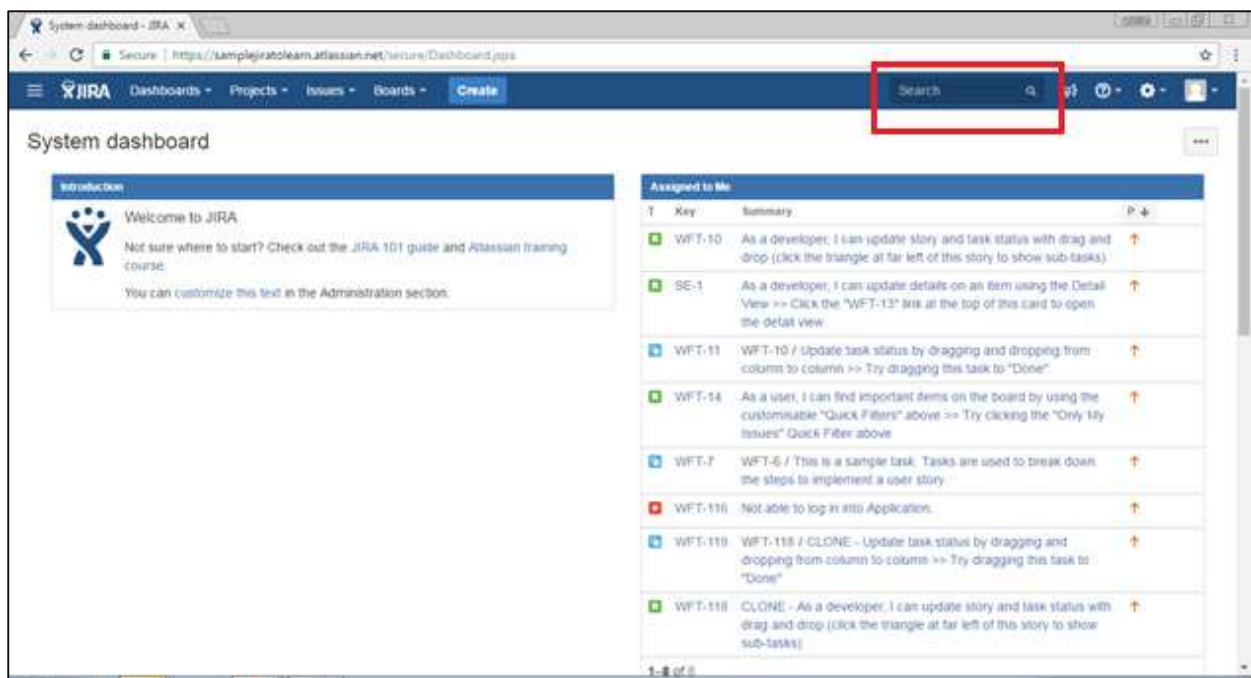


## Quick Search

The quick search is the fastest way to define search criteria. It is a text box where the user enters the key, text or anything and it starts searching for the exact matches in the current project and provides the result.

The Quick Search box is available on the top right hand corner of the navigator. The following screenshot shows how to access the Quick Search feature.



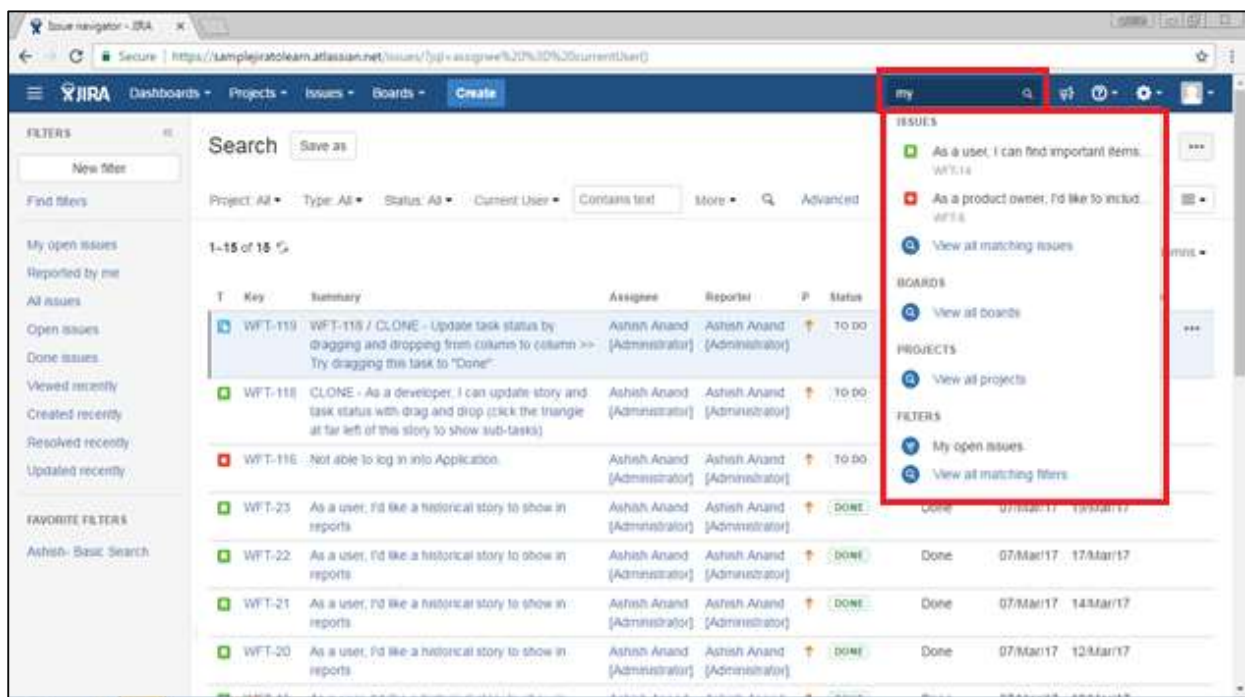


## Smart Querying

The quick search option performs smart searches with minimal typing. It recognizes the following word and gives out several options to the user to choose.

- **my**: This word searches issues assigned to the logged-in user.

The following screenshot shows different smart querying in a quick search.



Some of the most commonly used smart querying options are as follows:

- **r:me** – Finds issues reported by the logged-in user.
- **r:abc** – Finds issues reported by user – abc.
- **r:none** – Finds issues with no reporter.
- **<project name> or <project key>** – Finds issues within the given project name or finds issues having the same project key.
- **Overdue:** Finds issues those are overdue before today.
- **Created:, updated:, due:** – These smart searches finds issues with Created, Updated, or Due Date using the prefixes created:, updated:, or due:, respectively. For the date range, use today, tomorrow, yesterday, a single date range (e.g. '-1w'), or two date ranges (e.g. '-1w,1w'). Date ranges cannot have spaces between them. Valid date/time abbreviations are: 'w' (week), 'd' (day), 'h' (hour), 'm' (minute).
- **C:** – Finds issues with a particular component.
- **V:** – Finds issues with a particular version.
- **Ff:** – Finds issues with a Fixed For version.
- **\*** - Wildcard can be utilized with any of the above queries to find issues.

# 25. Jira – Advanced Search

Apart from the type of searches explained in the previous chapter, JIRA also has a few advanced search options, which can be performed using the following three ways.

- Using Field Reference
- Using Keyword Reference
- Using Operators Reference

These above-mentioned three ways have been explained in detail below.

The user should consider the following points while performing any advanced search.

- Advanced search uses structured queries to search for JIRA issues.
- Search results displays in the Issue Navigator.
- Search results can be exported to MS Excel and many other available formats.
- Save and Subscribe features are available to advanced searches.
- An advanced search uses the JIRA Query Language known as JQL.
- A simple query in JQL consists of a field, operator, followed by one or more values or functions. For example, the following simple query will find all issues in the "WFT" project:

Project = "WFT"

- JQL supports SQL like syntax such as ORDER BY, GROUP BY, ISNULL() functions, but JQL is not a Database Query Language.

## Using Field Reference

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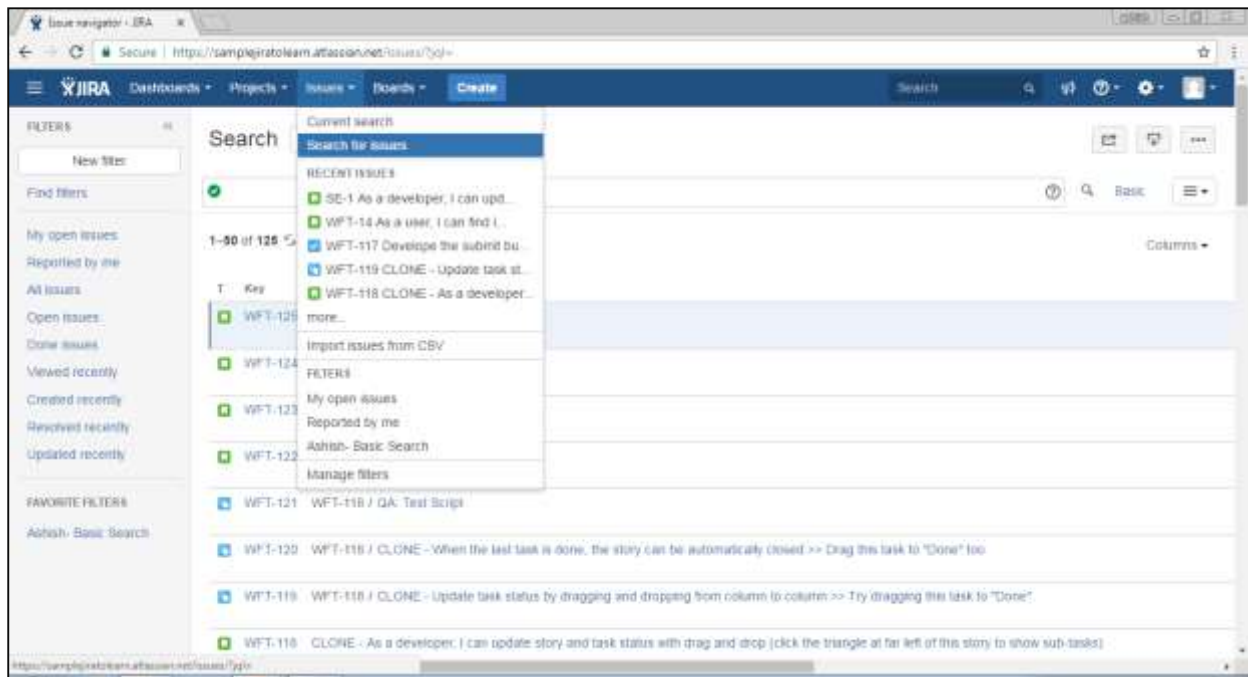
A field reference means a word that represents the field name in the JIRA issue including the custom fields. The syntax is:

**<field name> <operators like =, >, <> "values" or "functions"**

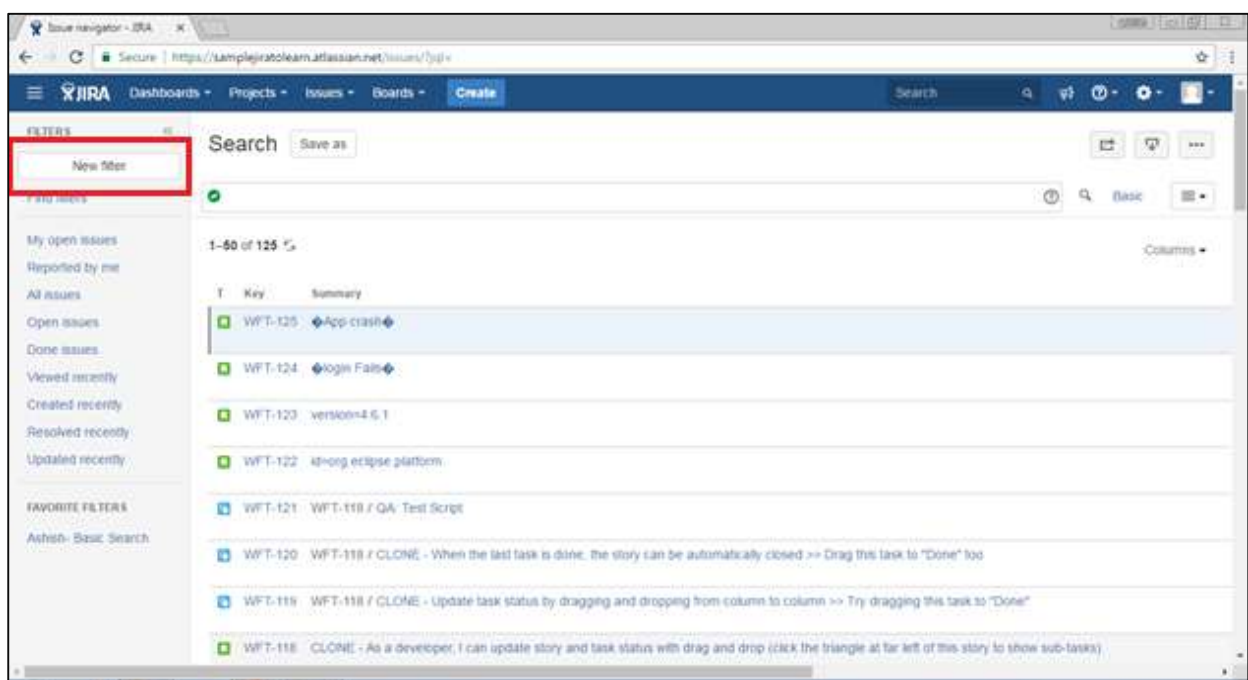
The operator compares the value of the field with value presents at right side such that only true results are retrieved by query.

- Go to Issues → Search for Issues in the navigator bar.

The following screenshot shows how to navigate the Search section.



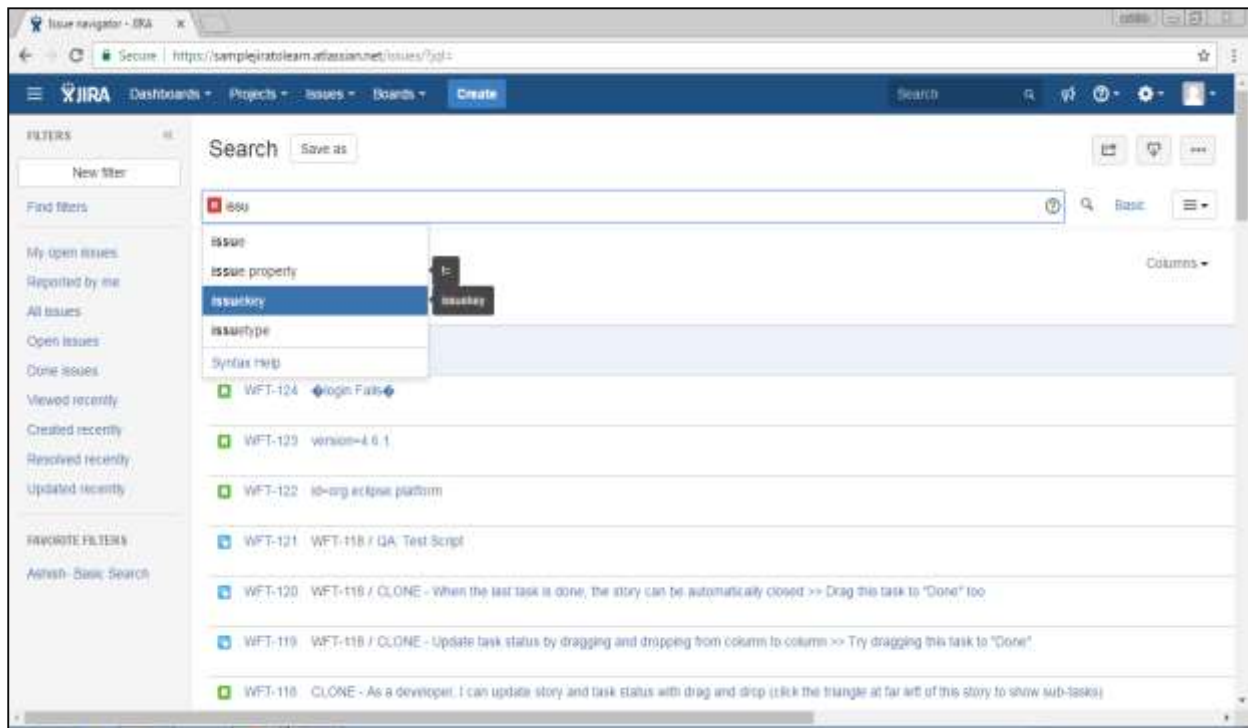
If there is an existing search criterion, click on the New Filter button to reset the criteria. The following screenshot shows how to start with a new criteria:



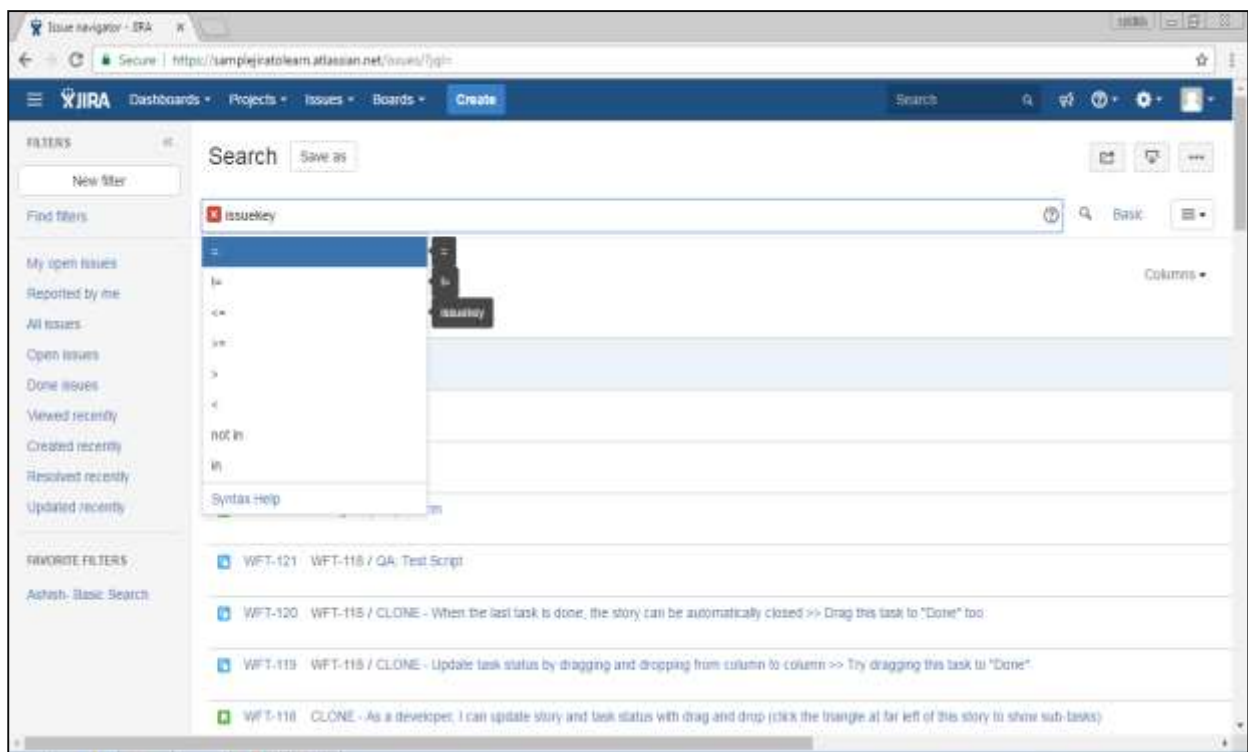
Type the query using the Field, Operator and Values like **issueKey = "WFT-107"**.

There are other fields as well – Affected Version, Assignee, Attachments, Category, Comment, Component, Created, Creator, Description, Due, Environment, etc. As soon as the user starts typing, the auto-complete functionality helps to write in the defined format.

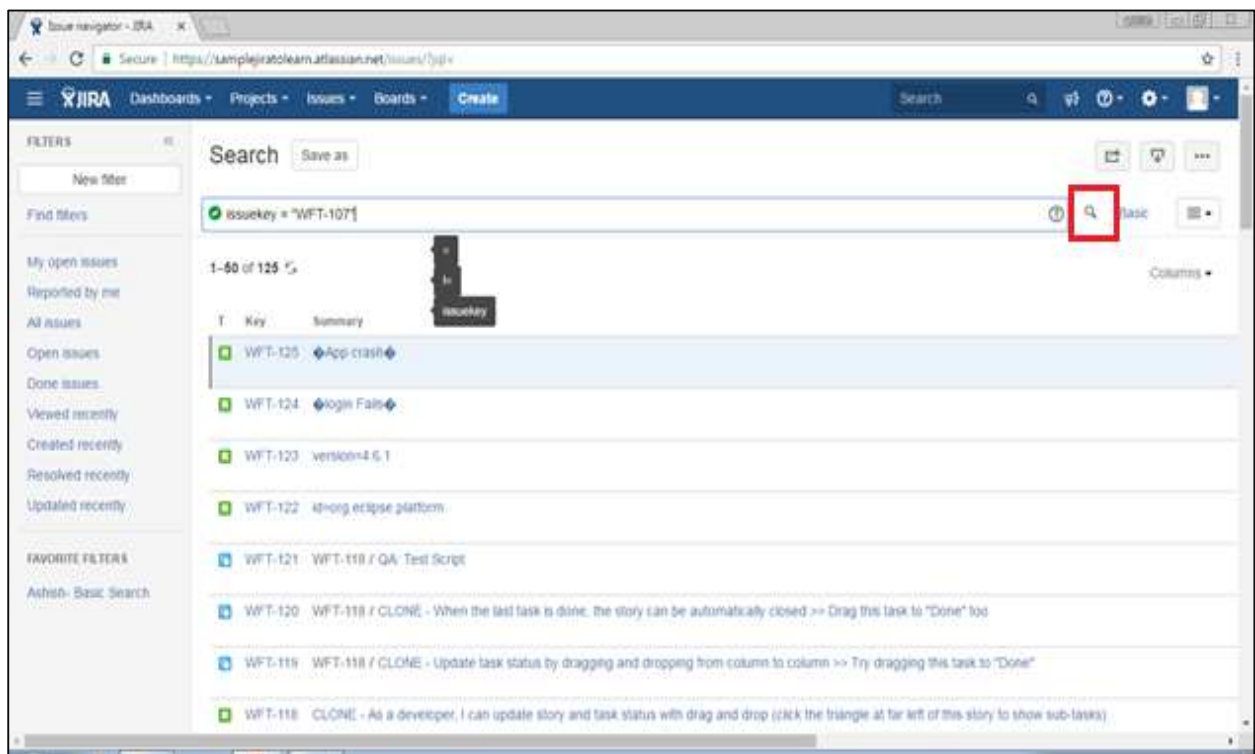
The following screenshot shows how to add Field Name criteria using advanced features.



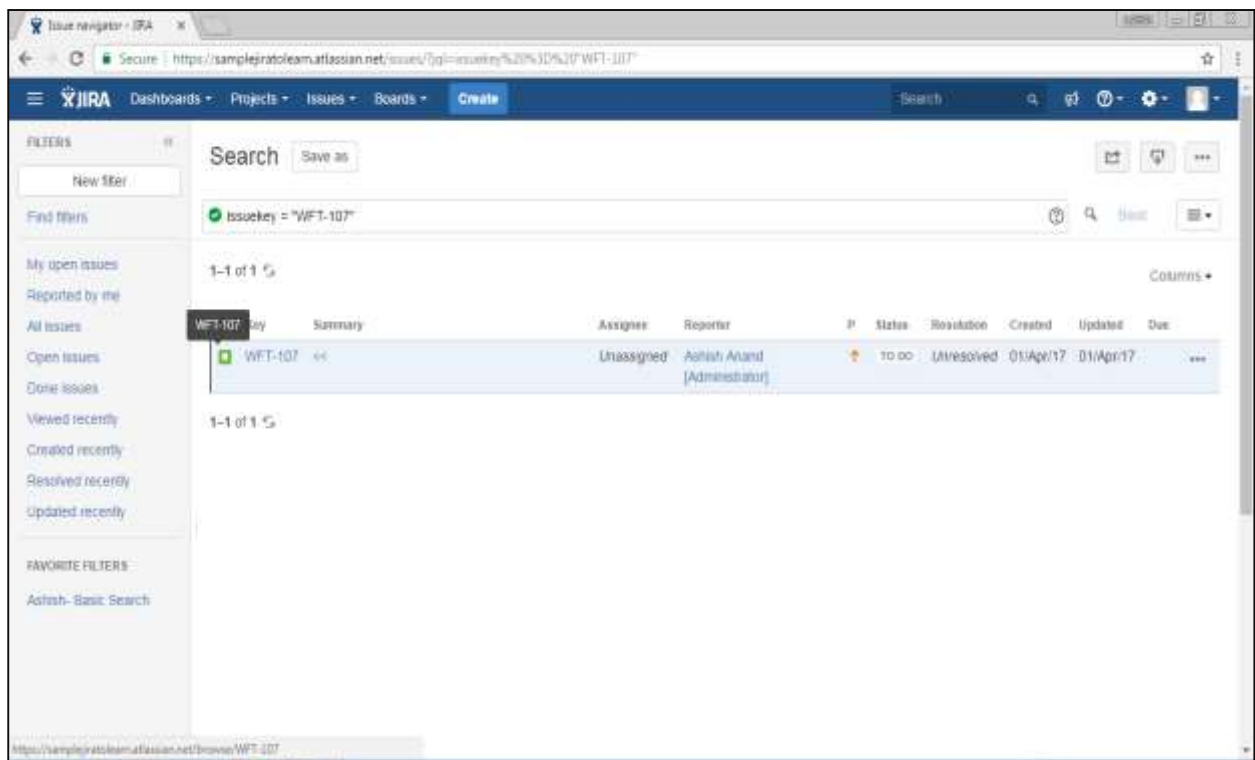
**Operator selection** – The following screenshot shows how to select operators.



The next step is to enter the value and then click on the Search symbol. The following screenshot shows how to add values and search.



The following screenshot shows the search result based on criteria set.





## Using Keyword Reference

Here, we will understand how to use a keyword reference and what its advantages are.

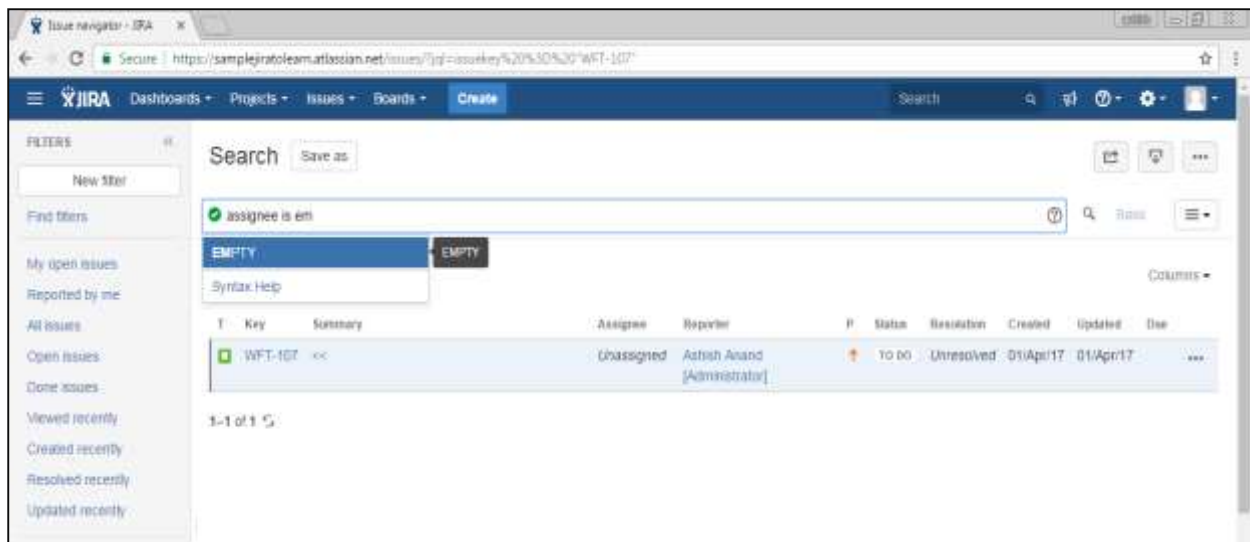
A keyword in JQL –

- joins two or more queries together to form a complex JQL query.
- alters the logic of one or more queries.
- alters the logic of operators.
- has an explicit definition in a JQL query.
- performs a specific function that defines the results of a JQL query.

List of Keywords:

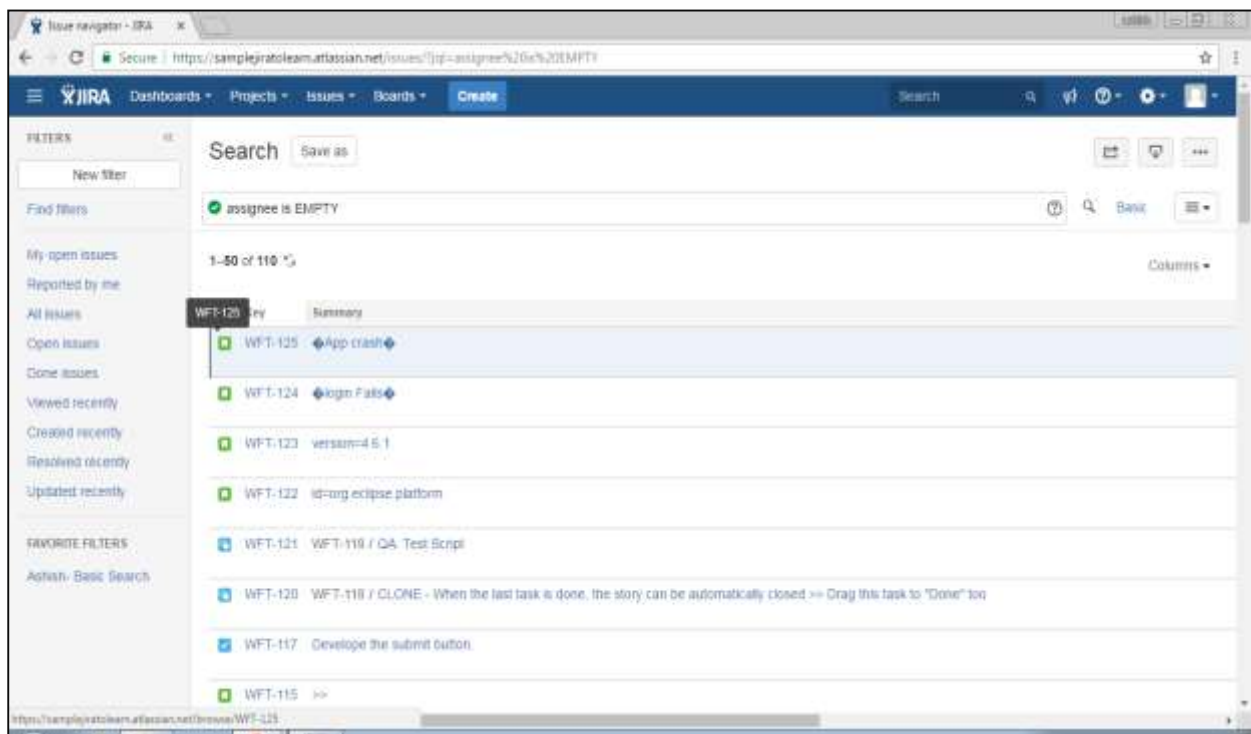
- AND : ex- status = open AND priority = urgent And assignee = Ashish
- OR : ex – due date < now() or due date is empty
- NOT: ex – not assignee = Ashish
- EMPTY: ex - affectedVersion is empty / affectedVersion = empty
- NULL : ex – assignee is null
- ORDER BY : ex – due date = empty order by created, priority desc

Similar to field reference, as soon as the user starts typing, the auto-complete functionality helps to get the correct syntax. The following screenshot shows how to add keywords.





Click on the Search symbol and it will provide the search results. The following screenshot shows the result based on a criteria set.



## Using Operators Reference

Operators are used to compare values of the left side with the right side, such that only true results display as the search result.

List of Operators:

- Equals: =
- Not Equals: !=
- Greater Than: >
- Less Than: <
- Greater Than Equals: =>
- Less than equals: =<
- IN
- NOT IN
- CONTAINS: ~
- Does Not contain: ! ~
- IS
- IS NOT
- WAS

- WAS IN
- WAS NOT IN
- WAS NOT
- CHANGED

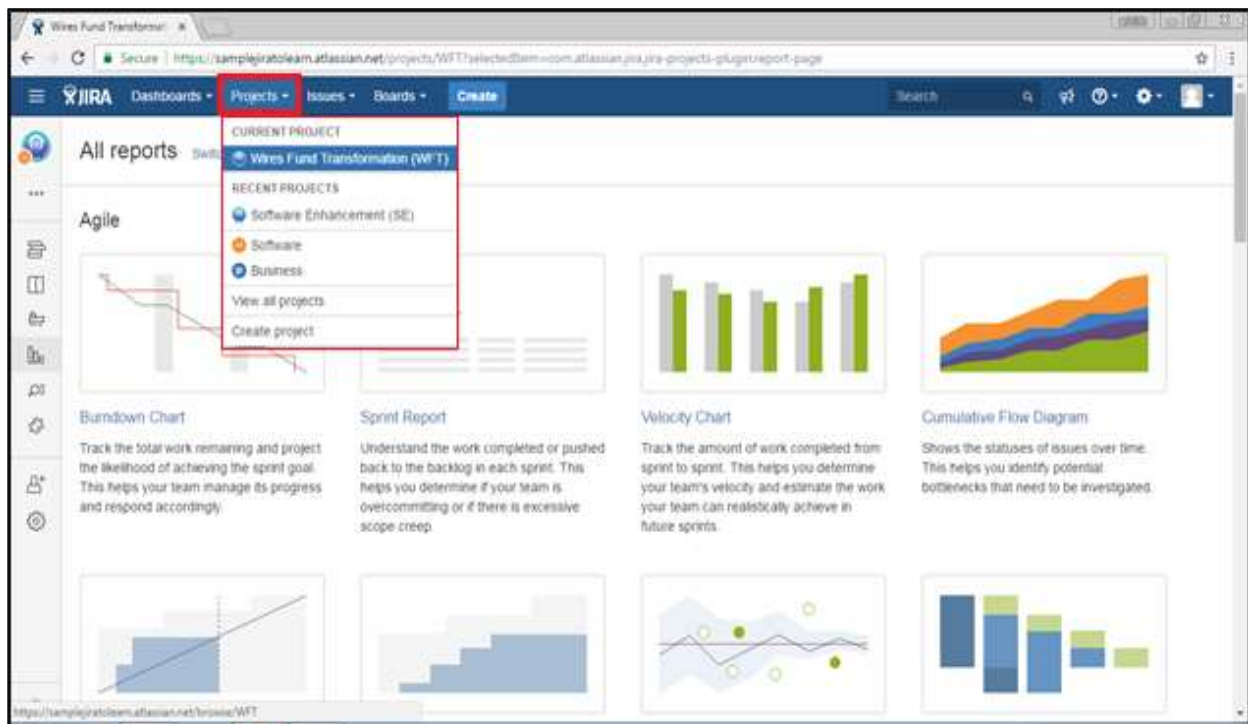
Similar to the Field and the Keyword Reference, these operators can also be used to enhance the search results.

## 26. JIRA – Reports

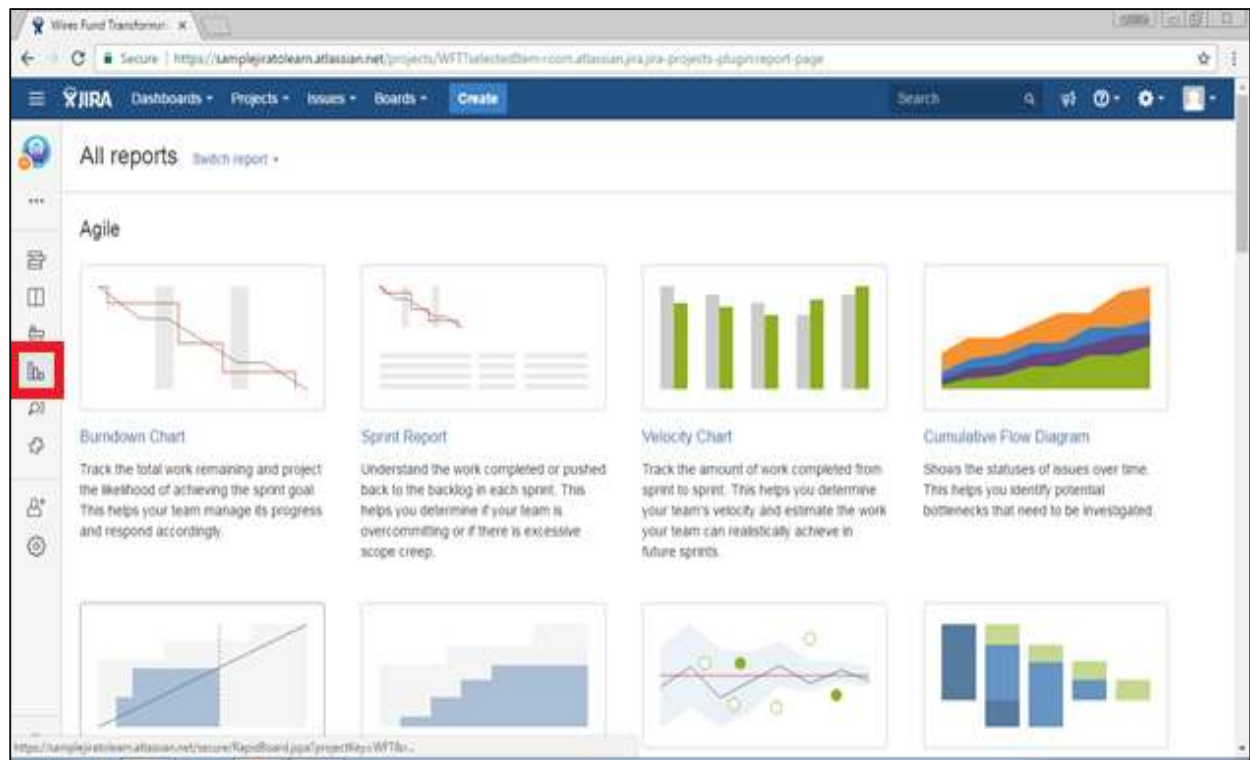
JIRA provides different types of reports within a project. It helps to analyze the Progress, Issues, Showstoppers and Timeliness of any Project. It also helps to analyze the resource utilization as well.

### How to Access Reports

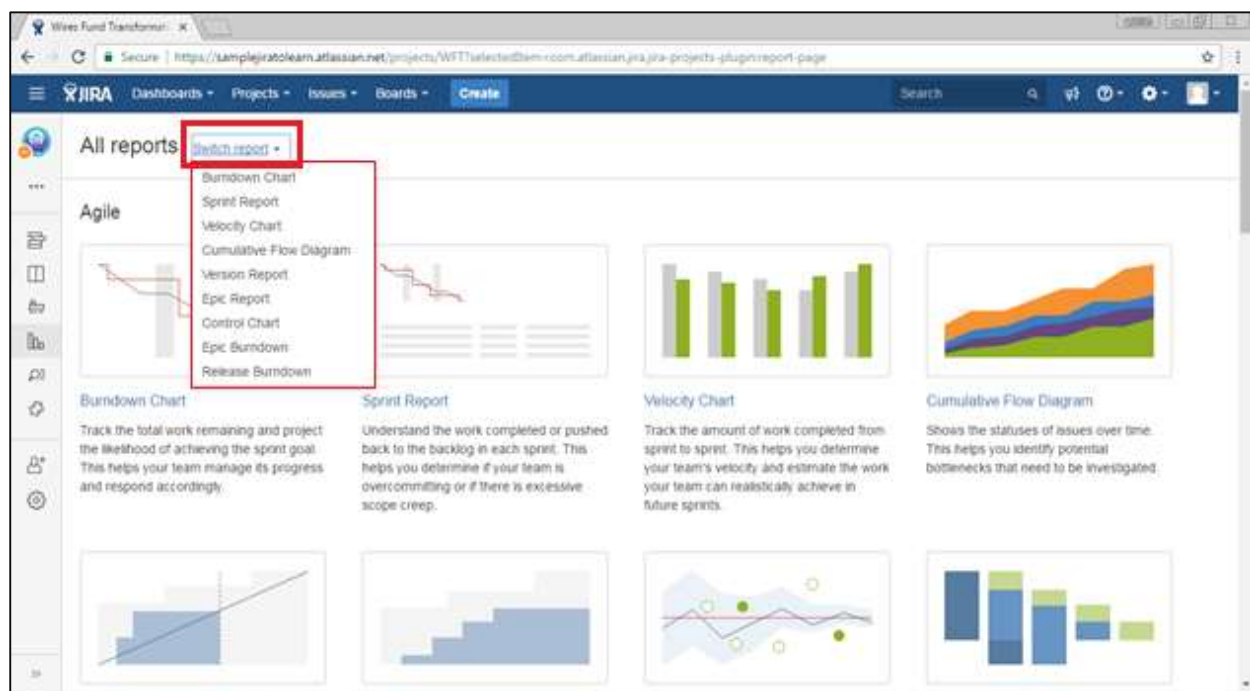
To access reports in JIRA, the user should go to Project → choose Specific project. The following screenshot shows how to navigate to a specific project.



Click on the Reports icon on the left side of the page. It will display all the reports supported by JIRA. The following screenshot shows how to access the Report section.



When the user clicks on Switch report, it will display the list of reports. The following screenshot shows list of reports available for quick switch.



## Type of Reports

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JIRA has categorized reports in four levels, which are –

- Agile
- Issue Analysis
- Forecast & Management
- Others

Let us now discuss the features of the above-mentioned report categories in detail.

### Agile

Following are the list of features of Agile Reports.

- **Burn down Chart:** Track the total work remaining, also whether sprint is achieving the project goal or not.
- **Sprint Chart:** Track the work completed or pushed back to the backlog in each sprint.
- **Velocity Chart:** Track the amount of work completed from sprint to sprint.
- **Cumulative Flow Diagram:** Shows the statuses of issues over time. It helps to identify high-risk issues or unresolved important issues.
- **Version Report:** Track the projected release date for a version.
- **Epic Report:** Shows the progress towards completing an epic over a given time.
- **Control Chart:** Shows the cycle time for the product, its version or the sprint. It helps to identify whether data from the current process can be used to determine future performance.
- **Epic Burn Down:** Track the projected number of sprints required to complete the epic.
- **Release Burn Down:** Track the projected release date for a version. It helps to monitor whether the version will release on time, so mandatory action can be taken if work is falling behind.

### Issue Analysis

Following are the list of features of Issue Analysis.

- **Average Age Report:** Displays the average age in days of unresolved issues.
- **Created Vs Resolved Issue Report:** Display the number of issues created vs the number of issues resolved in given period.
- **Pie chart Report:** Shows a pie chart of issues for a project grouped by a specified field.

- **Recently Created Issue Report:** Shows the number of issues created over a time-period for a project and how many of those were resolved.
- **Resolution Time Report:** Displays the average time taken to resolve issues.
- **Single Level Group by Report:** It helps to group the search results by a field and see the overall status of each group.
- **Time since Issues Report:** It helps to track how many issues were created, updated, resolved, etc., over a time-period.

## Forecast & Management

Following are the list of features of Forecast and Management type of reports.

- **Time Tracking Report:** Shows the original and current time estimates for issues in the current project. It can help to determine whether work is on track for those issues.
- **User Workload Report:** Shows the time estimates for all unresolved issues assigned to a user across projects. It helps to understand how much a user is occupied, whether overburdened or has less work.
- **Version Workload Report:** Displays how much outstanding work is remaining per user and per issue. It helps to understand the remaining work of a version.

In addition to these, there are other types of reports that generally have a pie chart in them, which we will discuss in detail in the subsequent chapters.

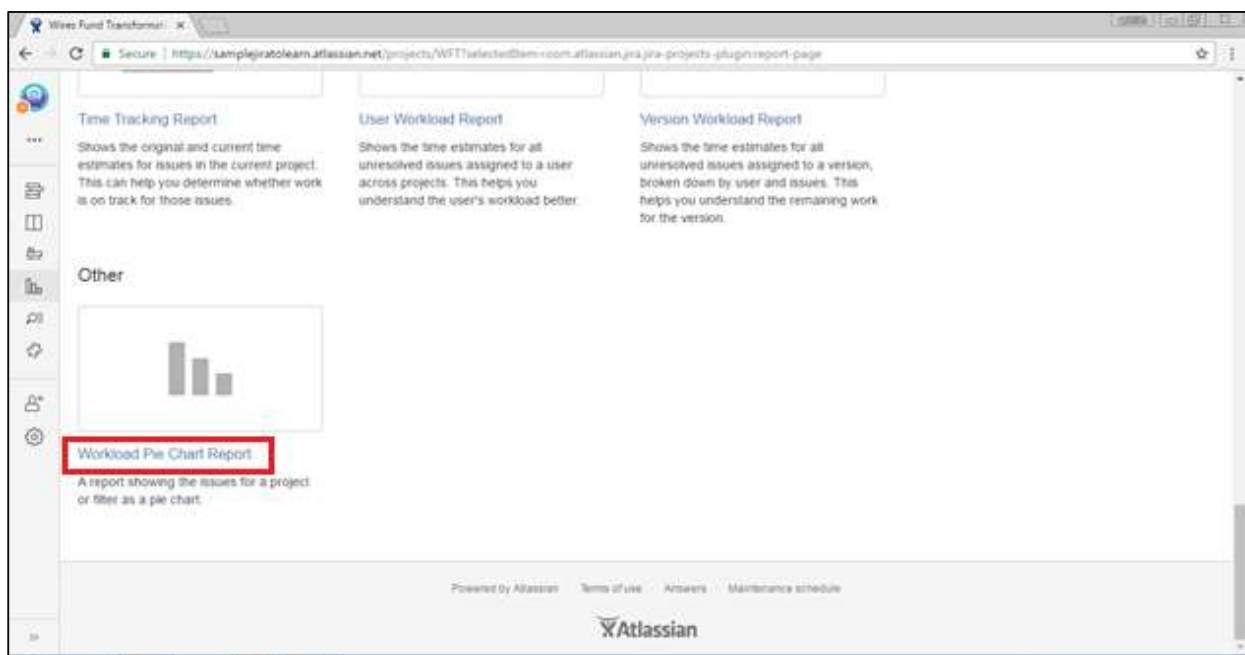
# 27. JIRA – Workload Pie Chart

A workload pie chart displays a pie chart showing all the issues for a specific project. Let us understand how to use it in JIRA.

## Generate a Report

To generate a report, the user should follow the steps given below.

**Step 1:** Go to Project → choose the Specific project. Click on the Report icon on the left side of the menu. Go to 'Others' section and click on Workload Pie Chart Report as shown in the following screenshot.



**Step2:** Select Project or issue filter for which to generate the report. In the Statistic Type, select the field name on which the pie chart will be formed. Select the Time Field to report on as Current Estimate, Original Estimate or Time Spent.



The following screenshot shows how to generate a report by providing details.

**Configure - Workload Pie Report**

**Report: Workload Pie Chart Report**

**Description:**  
A report showing the issues for a project or filter as a pie chart.

Project or saved filter: Wires Fund Transformation Change Filter or Project...  
Filter: Project or saved filter to use as the basis for the graph.

Statistic Type: Assignee  
Select which type of statistic to display for this filter.

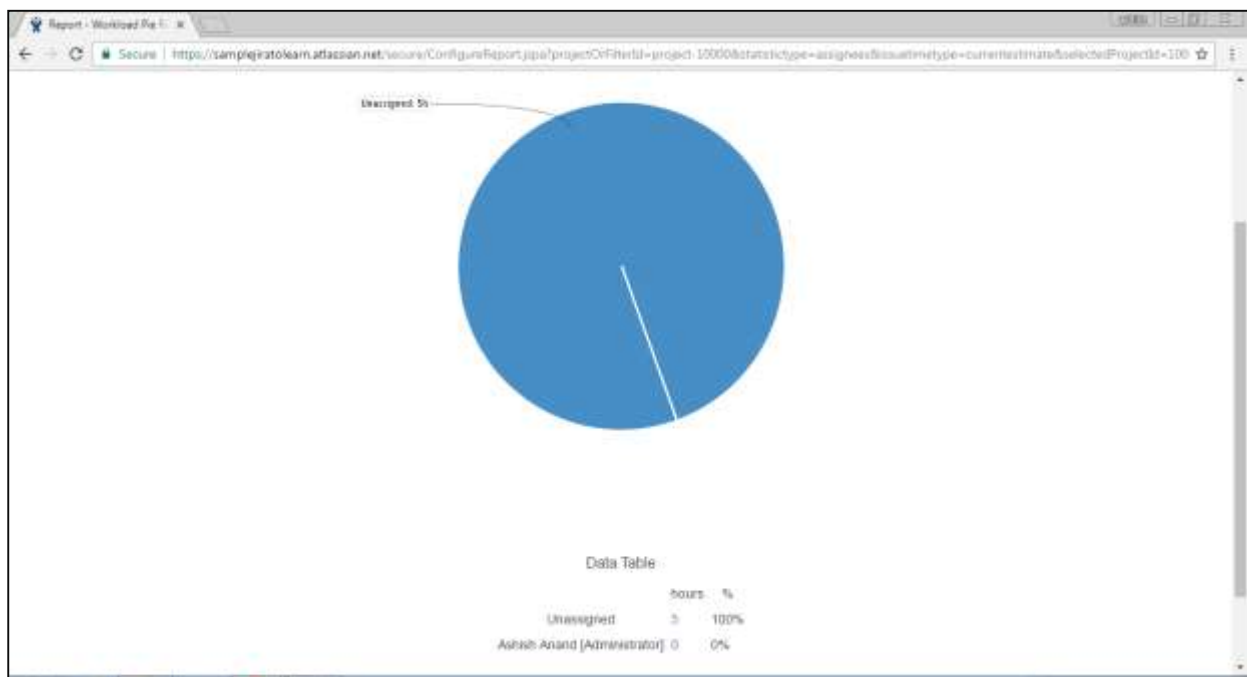
Time field to report on: Current Estimate  
Select the time field to use for this report.

[Next](#) [Cancel](#)

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**Step 3:** Click on **Next** to generate the report. The following screenshot shows how the generated report looks like.



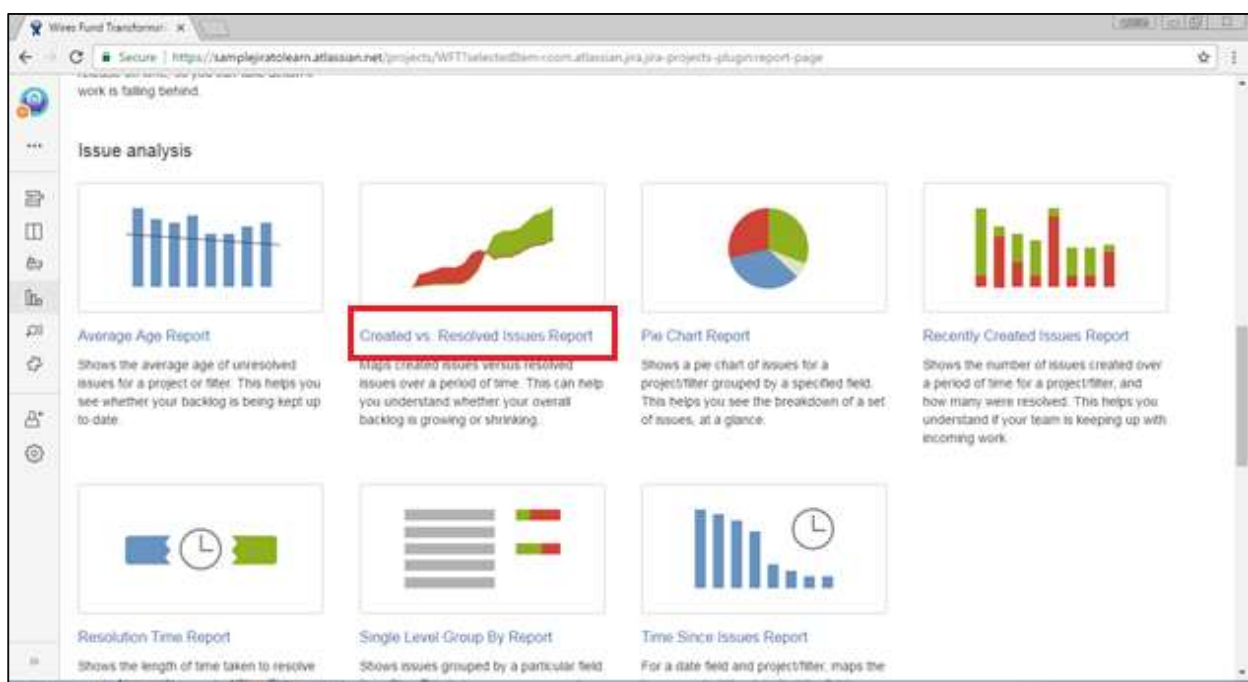
## 28. JIRA – Created vs Resolved Issues

It displays the number of created issues versus resolved issues over a given time-period. It helps to understand whether the overall backlog is moving towards resolution or not.

### Generate a Report

To generate a report, the user should follow the steps given below.

**Step 1:** Go to Project → choose a specific project. Click on the Report icon on the left side of the menu. Go to Issue Analysis and click on Created Vs Resolved Issues Report. The following screenshot shows how to access the Created Vs Resolved issues report:



**Step 2:** Select the Project or the issue filter for which the report has to be generated. Select the time-period to see reports like Daily, Weekly, Monthly, Quarterly, Annually, etc., available in the dropdown box. Enter the number of days in the **Days Previously** field to show in the graph. Select **Yes** or **No** for Cumulative totals. Select Display Versions as All Versions from the dropdown list.

The following screenshot shows how to generate report by selecting different available fields.

**Configure - Created vs Resolved Issues Report**

**Report: Created vs. Resolved Issues Report**

**Description:**  
Maps created issues versus resolved issues over a period of time. This can help you understand whether your overall backlog is growing or shrinking.

**Project or Saved Filter:** Wires Fund Transformation Change Filter or Project...  
Project or saved filter to use as the basis for the graph.

**Period:** Monthly  
The length of periods represented on the graph.

**Days Previously:** 30  
Days (including today) to show in the graph.

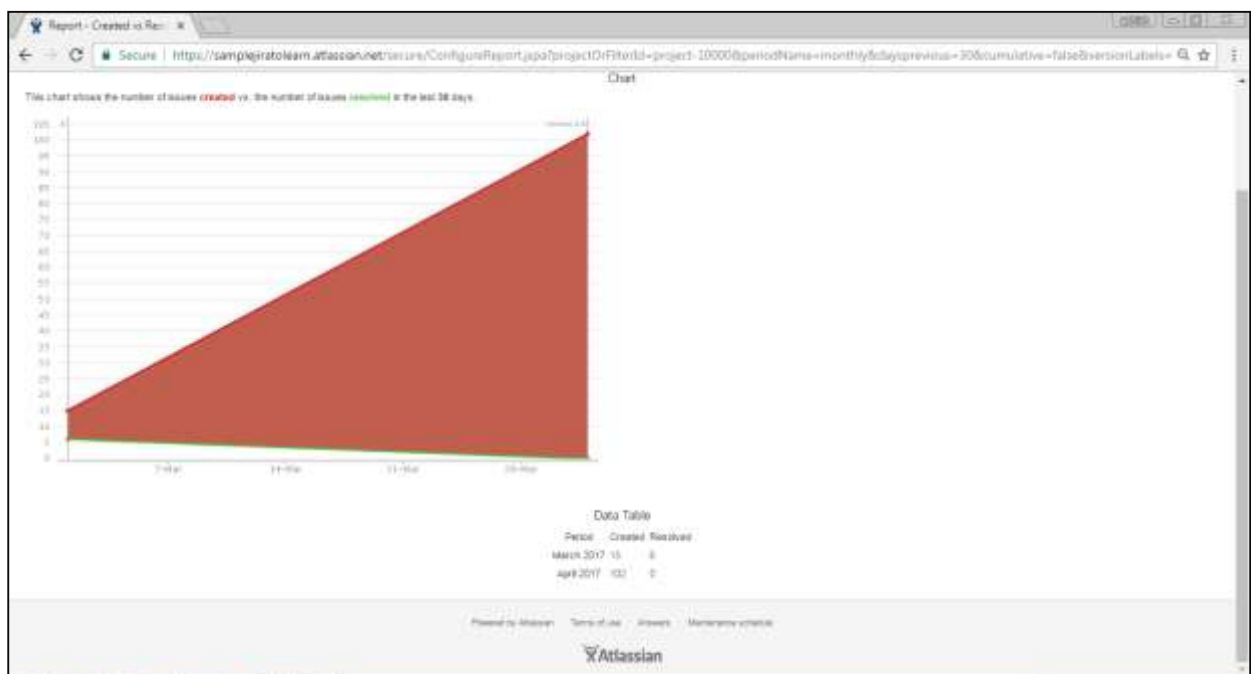
**Cumulative Totals?:** No  
Progressively add totals (1, 2, 3); or show individual values (1, 1, 1).

**Display Versions?:** All versions  
Show when versions were released on the chart.

**Next** **Cancel**

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**Step 3:** Click on Next to generate the reports. The following screenshot shows how the generated report looks like.



The created issues are displayed in red, while the resolved issues are in green color.

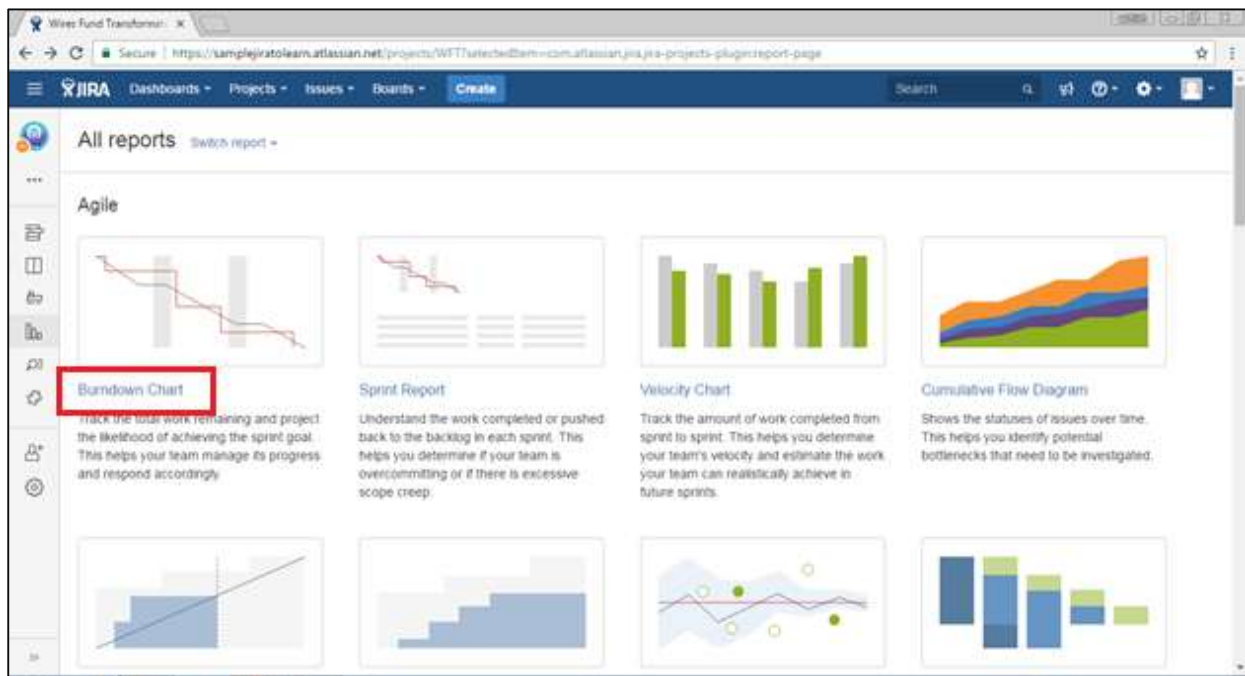
## 29. JIRA – Burndown Chart

It displays the total work remaining to achieve the sprint goal for a given time to sprint. It helps the team to manage the progress and respond accordingly. This chart is an important feature of Agile – Scrum methodology.

### Generate a Report

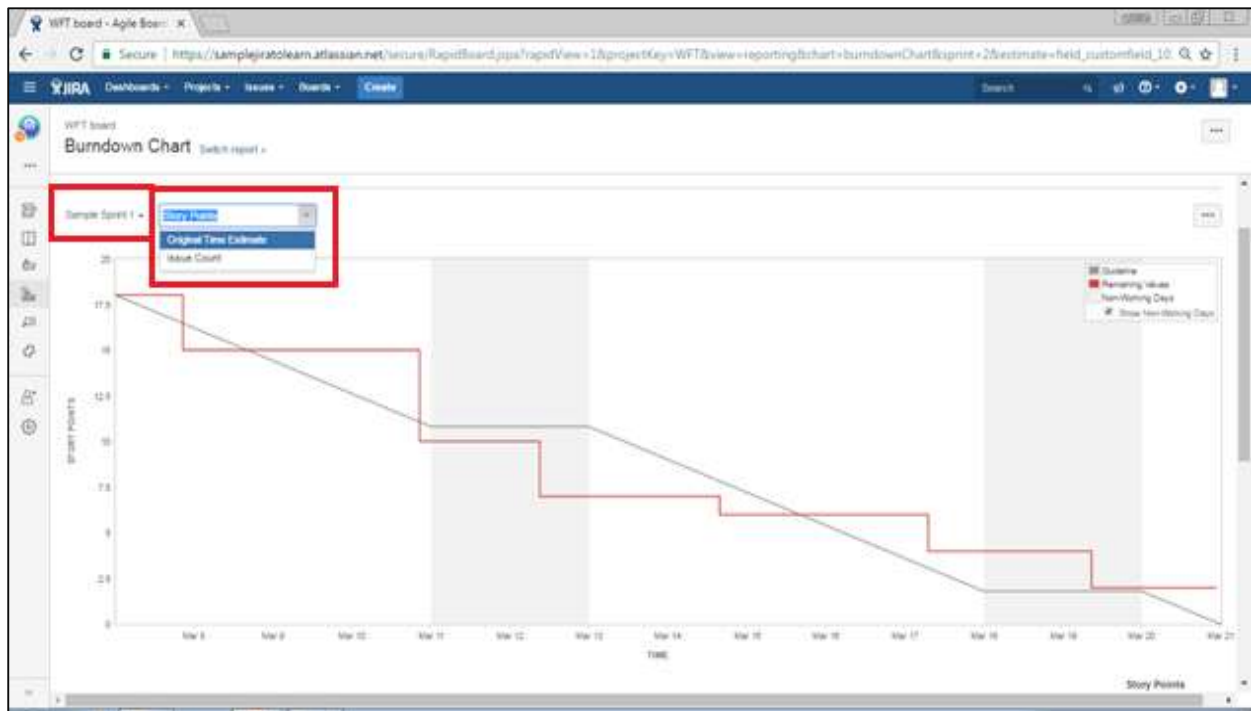
To generate a report, the user should follow the steps given below.

**Step 1:** Go to Project → choose a Specific project. Click on the Report icon on the left side of the menu. Go to Agile and click on Burndown chart. The following screenshot shows how to access a Burndown Chart.



**Step 2:** It displays the Burndown chart of the sprint like how the team is progressing towards a committed task. The red line displays how much work is remaining, while the grey line shows the committed tasks. The team can see where they stand in terms of the progress of sprint as compared to the commitment at the starting of that sprint. The user can change the Sprint and Y-axis by selection from a dropdown.

The following screenshot shows how the Burndown chart looks like sprint wise.



**Step 3:** In the second part of the report, it displays data like what is the sprint start date, what all issues were added, day by day how many issues resolved, what story points of the issues are, and day-by-day how many story points are remaining. This data is utilized to create the chart. The following screenshot shows the data that is used to generate the chart.

The screenshot shows the data table for the Burndown Chart. The table has columns: Date, Issue, Event Type, Event Detail, and Story Points (Est., Res., Remaining).

Date	Issue	Event Type	Event Detail	Story Points
				Est. Res. Remaining
27Mar17 12:06 AM	WFT-18 WFT-19 WFT-20 WFT-21 WFT-22 WFT-23	Sprint start		20 0 20
27Mar17 5:26 PM	WFT-18	Burndown	Issue completed	18 3 15
10Apr17 8:50 PM	WFT-19	Burndown	Issue completed	17 4 13
12Apr17 9:05 AM	WFT-20	Burndown	Issue completed	16 5 11
14Apr17 5:43 PM	WFT-21	Burndown	Issue completed	15 6 9
17Apr17 7:03 AM	WFT-22	Burndown	Issue completed	14 7 7
19Apr17 5:41 AM	WFT-23	Burndown	Issue completed	13 8 5
20Apr17 10:48 PM	WFT-18 WFT-19 WFT-20 WFT-21 WFT-22 WFT-23	Sprint ended		13 8 5

**Note:** Quite similar to these reports, other reports can also be generated.