

## Proposal

**Objective:** Generating statistics of 'bugs' whose status is 'resolved/closed' and whose resolution has been 'fixed' from Apache project repository by means of REST API. Also, for such cases ensure that the Assignee of the bug is not as same as the Reporter.

### Steps:

1. Get the projects available at:

[https://issues.apache.org/jira/secure/BrowseProjects.jspx?selectedCategory=all&selectedProjectType=software&sortColumn=name&sortOrder=ascending&s=view\\_projects](https://issues.apache.org/jira/secure/BrowseProjects.jspx?selectedCategory=all&selectedProjectType=software&sortColumn=name&sortOrder=ascending&s=view_projects)

2. For each project, identify the **issues** that are mentioned as 'bugs' and whose **status** has been 'resolved/closed', and **resolution** that has been 'fixed'. Also, make sure the 'Assignee' of the bug is not as same as the 'Reporter'.

A screenshot of the Jira search bar. It shows several dropdown menus: 'Hadoop Common', 'Bug', 'Resolved, Closed', and 'Assignee: All'. There is a text input field with 'Contains text' and a 'Search' button. Below the search bar, it shows 'Resolution: Fixed' with a plus icon.

Figure 1. Search criteria example within a project window on the website

A screenshot of the Jira bug details page. It shows a table with the following information: Type: Bug (with a red square icon), Priority: Blocker (with a red minus icon), Status: RESOLVED (in a green box), Resolution: Fixed, Affects Version/s: None, Fix Version/s: 3.3.0, Component/s: None, Labels: None, and Target Version/s: 3.3.0.

Figure 2. Example of the bug status along with resolution

Additionally, make sure that the entries where the bugs are closed/resolved/fixed don't have the same 'Assignee' as the 'Reporter'. Such entries must not be included in the total count.


A screenshot of the Jira bug details page, specifically the 'People' section. It shows the Assignee: Brian Grunkemeyer, Reporter: Brian Grunkemeyer, Votes: 0, and Watchers: 7. The Assignee and Reporter are the same person, which is an example of an entry that should not be counted.

Figure 3. Example of Assignee being the Reporter (such entries must not be counted)

Optional support: The API to set the necessary search criteria in order to extract the necessary information can be found at: <https://developer.atlassian.com/server/jira/platform/rest-apis/>

4. Rank the projects based on the number of bugs that have been resolved/closed/fixed. Provide the outcome in a csv or excel file along with the python script.

Example of the outcome:

<b>Project ID</b>	<b>Project Name</b>	<b>Number of bugs that are closed/resolved/fixed and Assignee of the bug is not as same as the Reporter</b>
1.	Hadoop	1200
2.	Joshua	567
3.	Pulsar	213
4.	Active MQ	57
n	Apache MetaModel	23