



Painless Bug Tracking

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Reference

- <http://www.joelonsoftware.com/articles/fogooooo00029.html>

Painless Bug Tracking

- “At any given time, I can only remember two bugs.”
- “Keeping a database of bugs is one of the hallmarks of a good software team.”
- “... without an organized database listing all known bugs in the code, you are simply going to ship low quality code. ”



Every good bug report needs exactly three things

- Steps to reproduce,
- What you expected to see, and
- What you saw instead.



ID
Project
Area
Title
Assigned To

Status
Priority
Fix For
Version
Computer

Description

1203

Bee Flogger 2.0

FTP Client

Uploading file causes FTP server to dump core

CLOSED

CLOSED (RESOLVED - FIXED)

2 - Must Fix

2.0 Alpha

Build 2019

Jill's iMac, Mac OS 9.0, 128M RAM, 1024x768 millions of colors

11/1/2000 Opened by Jill the Very, Very Good Tester * Start Bee Flogger

* Create an unnamed document simply containing the letter "a"

* Click on the FTP button on the toolbar

* Try to ftp to your server

BUG: Observe; the ftp server is no longer responding. Indeed ps -augx shows that it is not even running and there is a core dump in /.

EXPECTED: No crash **11/1/2000 Assigned to Willie the Lead Developer by Jill the Very, Very Good Tester**

11/2/2000 (Yesterday) RESOLVED - WON'T FIX by Willie the Lead Developer

Not our code, Jill, that's just proftpd which comes with Linux.

11/2/2000 (Yesterday) Reactivated (assigned to Willie the Lead Developer) by Jill the Very, Very Good Tester

That doesn't sound right. I've never been able to crash proftpd when I connect with a normal ftp client. Our code crashes it every single time. Ftp servers don't just "crash".

A Bug gets assigned to one person. ("hot potato")

When it gets "resolved", it will get assigned to the original opener

11/3/2000 (Today) Assigned to Mikey the Programmer by [Willie the Lead Developer](#)

Mikey, can you look at this? Maybe your client code is doing something wrong.

11/3/2000 (Today) RESOLVED - FIXED by [Mikey the Programmer](#)

I think I was passing the user name instead of the password or something...

11/3/2000 (Today) Reactivated (assigned to Mikey the Programmer) by [Jill the Very, Very Good Tester](#)

Still happens in Build 2021.

11/3/2000 (Today) Edited by [Mikey the Programmer](#)

Whoa. That's strange. Lemme debug this.

11/3/2000 (Today) Edited by [Mikey the Programmer](#)

I'm thinking it might be MikeyStrCpy()...

11/3/2000 (Today) RESOLVED - FIXED by [Mikey the Programmer](#)

Ahhh!

FIXED!

11/3/2000 (Today) Closed by [Jill the Very, Very Good Tester](#)

Appears fixed in build 2022, so I'll go ahead and close this.

Ten tips

- Reduce the repro steps to the *minimal steps*
- **The only person who can *close* a bug is the person who opened it** in the first place. Anyone can *resolve* it, but only the person who saw the bug can really be sure that what they saw is fixed.
- There are many ways to resolve a bug. For example: *fixed, won't fix, postponed, not repro, duplicate, or by design.*
- **Not *Repro* means that nobody could ever reproduce the bug.** Programmers often use this when the bug report is missing the repro steps.
- You'll want to keep careful track of versions.

Ten tips

- **If you're a programmer**, and you're having trouble getting testers to use the bug database, just *don't accept bug reports by any other method*. If your testers are used to sending you email with bug reports, just bounce the emails back to them with a brief message: "please put this in the bug database. I can't keep track of emails."
- **If you're a tester**, and you're having trouble getting programmers to use the bug database, just *don't tell them about bugs* - put them in the database and let the database email them.
- **If you're a programmer**, and only some of your colleagues use the bug database, just start assigning them bugs in the database. Eventually they'll get the hint.

Ten tips

- **If you're a manager**, and nobody seems to be using the bug database that you installed at great expense, start assigning new features to people using bugs. A bug database is also a great "unimplemented feature" database, too.
- **Avoid the temptation to add new fields to the bug database.** For the bug database to work, everybody needs to use it, and if entering bugs "formally" is too much work, people will go *around* the bug database.