

Mid Semester Assignment, Course: - Software Verification and Validation

Deadline: - Mentioned on SIC

Marks: - 30

Program: - BS (CS), BS-SE

Dated: 13 April 2020

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Class and Section: 9th “A”

- A. Choose any Testing tool from the list, and write downs its
- a) pros/ cons
 - b) Functionality
 - c) Supporting Languages
 - d) Supporting Tests
 - e) Write a short(faulty) code, Test using this tool, and show the bugs in the code.

Q1:- Bugzilla?

Ans:-Bugzilla:-

Bugzilla is a "Defect Tracking System" or "Bug-Tracking System". Defect Tracking Systems allow individual or groups of developers to keep track of outstanding bugs in their product effectively.

Bugzilla is an Open Source Tool.

It is written in Perl and Uses MySQL database.

What does Bugzilla do?

- ✓ Track bugs and code changes
- ✓ Communicate with teammates
- ✓ Submit and review patches
- ✓ Manage quality assurance (QA

What is Bugzilla used for?

Bugzilla is an open-source issue/bug tracking system that allows developers to keep track of outstanding problems with their product. It is written in Perl and **uses** MYSQL database.

What is Bugzilla software testing tool?

Bugzilla is a defect/bug tracking **tool**. Defect tracking systems allow developers and **testers** to track all the outstanding defects. **Bugzilla** can be linked to other **testing tools** like JIRA, QC or ALM, etc. **Bugzilla** is developed in Perl and runs on MYSQL server.

Who Use Bugzilla?

- Netscape/AOL
- Mozilla.org
- NASA
- Rock Linux
- Etc.

Part (a)

Advantages:-

- Whenever a bug is logged or its status is changed then an email notification is triggered to the concerned persons without any delay.
- Its interface is very easy to understand and work on instead of having any extra technical knowledge.
- It has a good documentation part where can filter out all bugs as per its status. And the report is very beautiful and very easily readable.
- It is an open source and free to use. SO great to have without purchasing any license.

Disadvantages:-

- There should be some sort of association of the multiple affected test cases from the bug which I cannot see.
- There should be a place for a regression test suite in Bugzilla so that any bug found after every regression suite execution can be termed as regression testing failure result.
- Documentation is limited to Bugs instead it should more of project-focused and display the health of a project with the bugs being found or resolved.
- It cannot be part of Agile methodologies as no sprint association can happen.

Part(b)

Functionality:-

Bugzilla is powerful and it has advanced searching capabilities. Bugzilla supports user configurable email notifications whenever the bug status changes. Bugzilla displays the complete bug change history. Bugzilla provides inter bug dependency track and graphic representation.

Part(c)

Supporting Languages:-

Currently supported database systems are MySQL, PostgreSQL, Oracle, and SQLite. Bugzilla is usually installed on Linux using the Apache HTTP Server, but any web server that supports CGI such as Lighttpd, Hiawatha, Cherokee can be used.

Languages used: Tcl, Perl

Part (d)

Supporting Tests:-

To install and run Bugzilla on your server, the core requirement is to have Perl installed. This means that Bugzilla can be installed on any platform where Perl can be installed, including Windows, Linux, and Mac OS X. Linux is highly recommended and is our 1st-class citizen operating system.

Part(e)

Write a short(faulty) code, Test using this tool, and show the bugs in the code.

Bug is created ID# 26320 is assigned to our Bug. You can also add additional information to the assigned bug like URL, keywords, whiteboard, tags, etc. This extra-information is helpful to give more detail about the Bug you have created.

1. Large text box
2. URL
3. Whiteboard
4. Keywords
5. Tags
6. Depends on
7. Blocks
8. Attachments

First Last Prev Next This bug is not in your last search results.

Bug 26320 - Gears for sams widget twisted ([edit](#))

Status: [CONFIRMED](#) ([edit](#))

Reported: 2015-01-07 02:50 PST by [James](#)
Modified: 2015-01-07 03:10 PST ([History](#))
CC List: 1 user including you ([edit](#))

See Also: ([add](#))

Large text box: [1](#)

Product: Sam's Widget
Component: Widget Gears
Version: unspecified
Hardware: PC Windows NT
Importance: P2 normal
et Milestone: ---
Assigned To: [sam folk-williams](#) ([edit](#)) ([take](#))
QA Contact: ([edit](#)) ([take](#))

[2](#) URL:
[3](#) Whiteboard:
[4](#) Keywords:
[5](#) Tags:
[6](#) Depends on:
[7](#) Blocks:
Show dependency [tree](#) / [graph](#)

A multiple-select box: Always Appears
Also Always Appears
Third Value, Always

Drop Down List: ---
Date Time:
Bug ID Field:

Flags: None yet set ([set flags](#))

Orig. Est.:	Current Est.:	Hours Worked:	Hours Left:	%Complete:	Gain:	Deadline:
0.0	0.0	0.0 + 0	0.0	0	0.0	2015-01-09

[Summarize time](#) (including time for bugs blocking this bug)

Attachments [8](#)
[Add an attachment](#) (proposed patch, testcase, etc.)

Bug ID number
is assigned to
newly created
bug