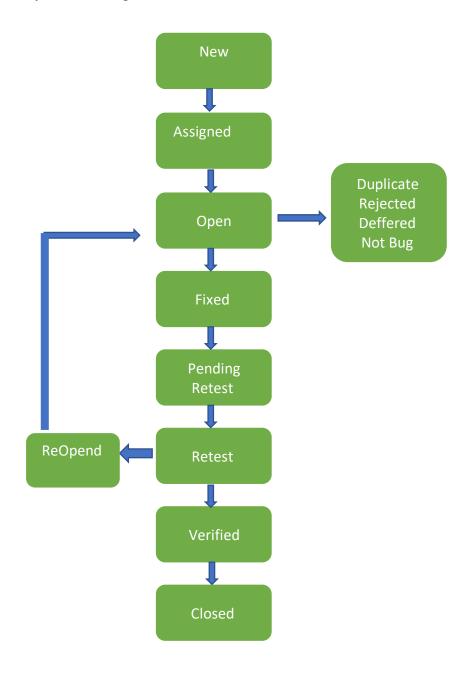
Software Testing and Quality Assurance Homework 1

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A bug (also called a defect) is a mistake in software that causes it to behave differently from what's expected. Bugs can happen because of unclear requirements, poorly written use cases, or errors in the code. The terms bug life cycle and defect life cycle mean the same thing and are used interchangeably

Bug life cycle is the process a bug goes through from the time it's found until it's fixed. It includes different stages to help developers track and manage the bug. Developers aim to fix bugs quickly to prevent bigger problems in the code.

Stages of Bug Life Cycle in Testing:



1. New

The bug is found for the first time, described clearly, and reported to the development team

2. Assigned

The bug is approved and given to a developer or team member to fix.

3. Open

The developer starts working on the bug. If the bug isn't valid, it may be marked as "Deferred" or "Rejected."

4. Fixed

The developer has fixed the bug and updated the code.

5. Test

The QA team tests the software to check if the bug is really fixed.

6. Verified

If the bug no longer appears, the tester marks it as verified.

7. Closed

The bug is fully resolved and the process ends here.

8. Reopen

If the bug comes back, it is reopened and goes through the process again.

9. Duplicate

The bug has already been reported earlier, so this report is marked as a duplicate.

10. Deferred

The bug will be fixed later, usually because it's not urgent or will be handled in a future update.

11. Rejected

The bug is marked as invalid maybe it's not really a bug, can't be reproduced, or is a duplicate.

References:

Collins, T. (2024, December 12). *Understanding bug life cycle in software testing* | *BrowserStack*. BrowserStack. https://www.browserstack.com/guide/bug-life-cycle-intesting

GeeksforGeeks. (2025, July 24). *Bug life cycle in software development*. GeeksforGeeks. https://www.geeksforgeeks.org/software-engineering/bug-life-cycle-in-software-development/