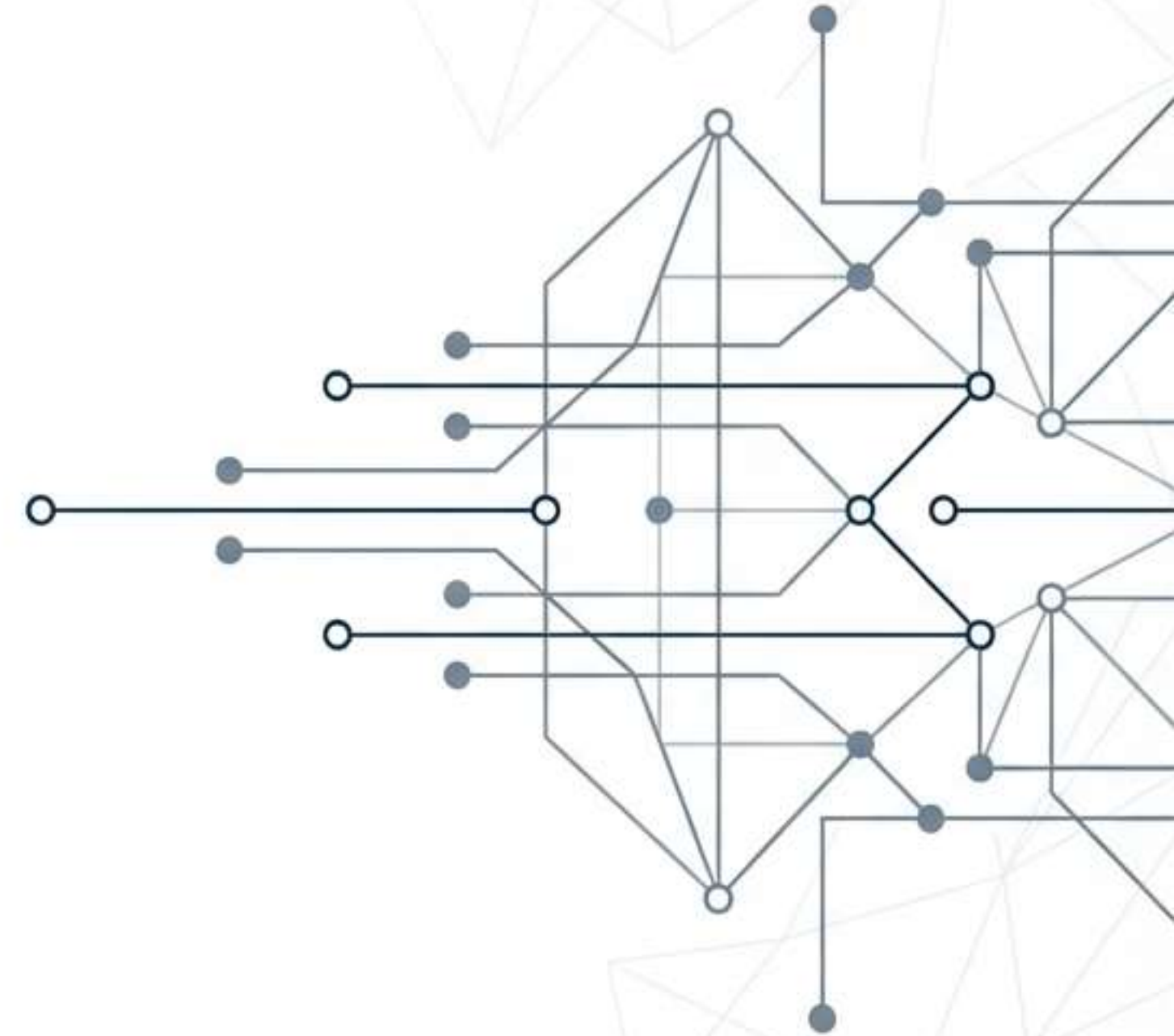


Mastering Defect Management and the Bug Life Cycle

Operational workflows, classification logic, and decision matrices for QA professionals.



Defining the Terminology

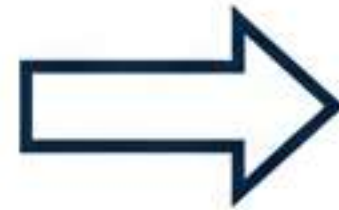
The evolution of a code issue.



Error

(The Human Mistake)

A syntax error or logic gap made by the programmer during coding.



Defect

(The Discovery)

The variation between 'Expected Results' and 'Actual Results' identified by the Tester.



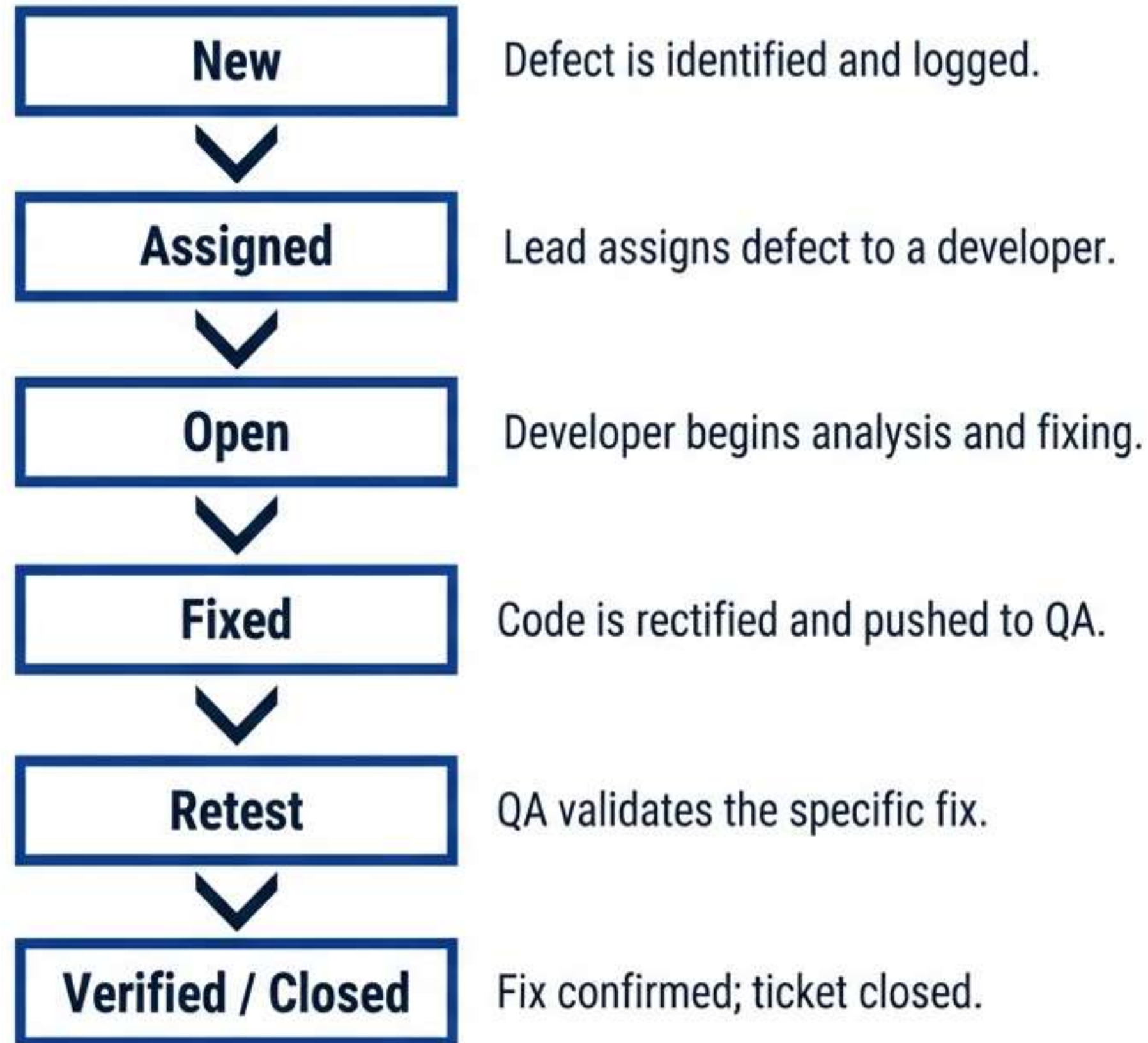
Bug

(The Acceptance)

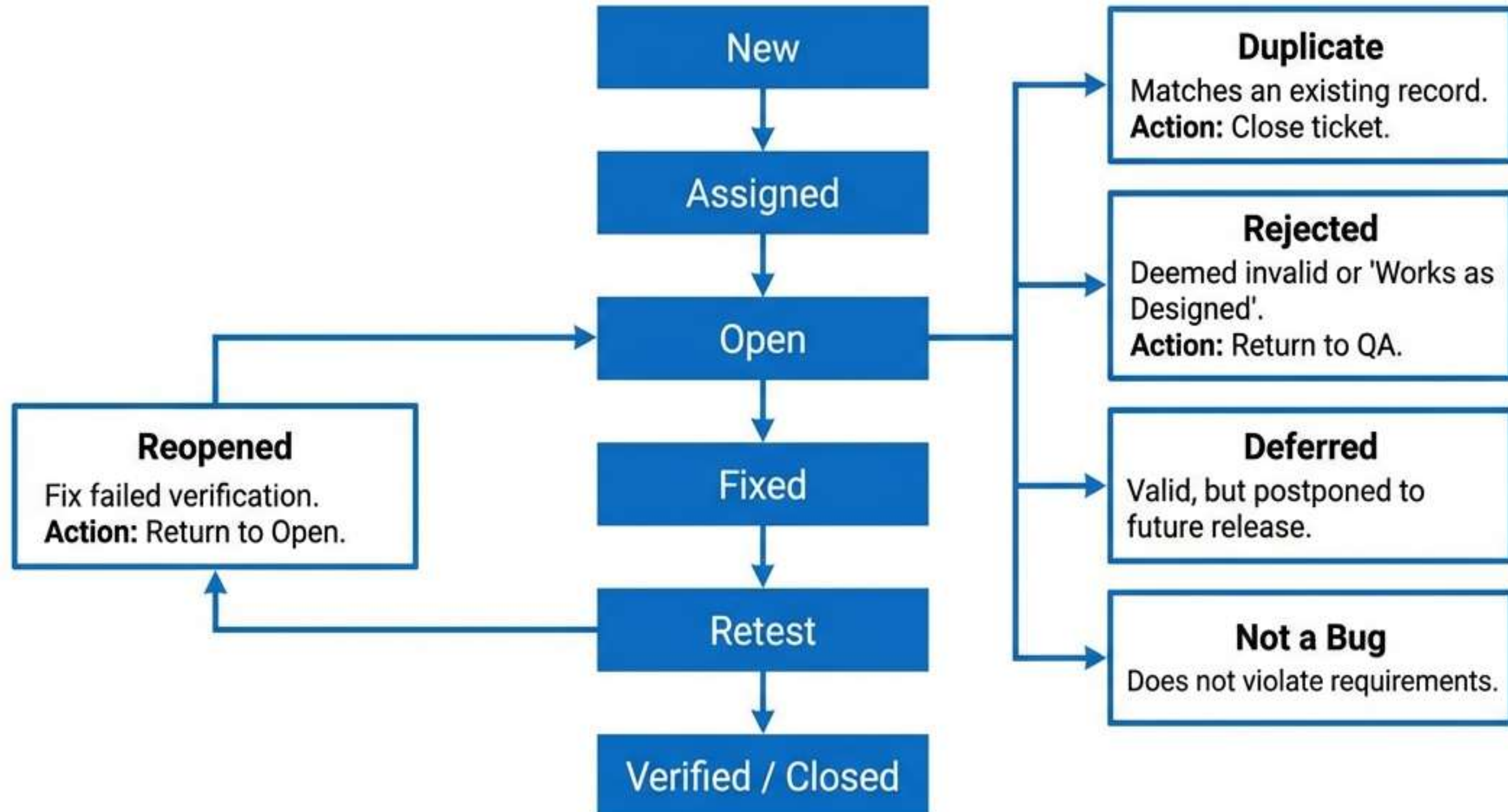
A defect that has been accepted by the Development team to be fixed.

The Standard Bug Life Cycle Workflow

The 'Happy Path' from discovery to resolution



Handling Exceptions and Non-Linear States



Classification Logic: Severity vs Priority



SEVERITY

Technical Impact

How broken is the system?

A parameter indicating the impact on software functionality.

- Critical, Major, Moderate, Minor



PRIORITY

Business Urgency

How fast must it be fixed?

Decides the scheduling order for fixes based on business needs.

- Critical, High, Medium, Low

The Severity and Priority Matrix

Severity (Technical Impact)	High	Immediate Showstoppers. Examples: System crash, Payment gateway failure, Data breach.	High tech impact, low user frequency. Examples: Legacy browser crash, Annual report crash.
	Low	Minor tech issue, high brand damage. Examples: Company logo missing, Slogan spelling error.	Cosmetic or minor annoyance. Examples: Typo in 'About Us', Spacing inconsistency.
		High	Low
		Priority (Business Urgency)	

Best Practices for Defect Management

- ✓ **Objective Reporting:** Clearly differentiate between technical failure (Severity) and user experience issues (Priority).
- ✓ **Contextual Priority:** Always weigh technical severity against business value (e.g., Brand Logos).
- ✓ **Traceability:** Ensure every bug is linked to a requirement to avoid 'Not a Bug' rejections.
- ✓ **Clear Evidence:** Provide steps to reproduce to prevent bugs being returned as 'Cannot Reproduce'.
- ✓ **Managed Backlogs:** Use the 'Deferred' state strategically, not as a hiding place for difficult bugs.



Summary & Key Takeaways



Severity measures
functionality impact.



Standard Workflow:
Linear Happy Path.



Priority measures
implementation
urgency.



Exceptions: Deferred,
Rejected, Duplicate.