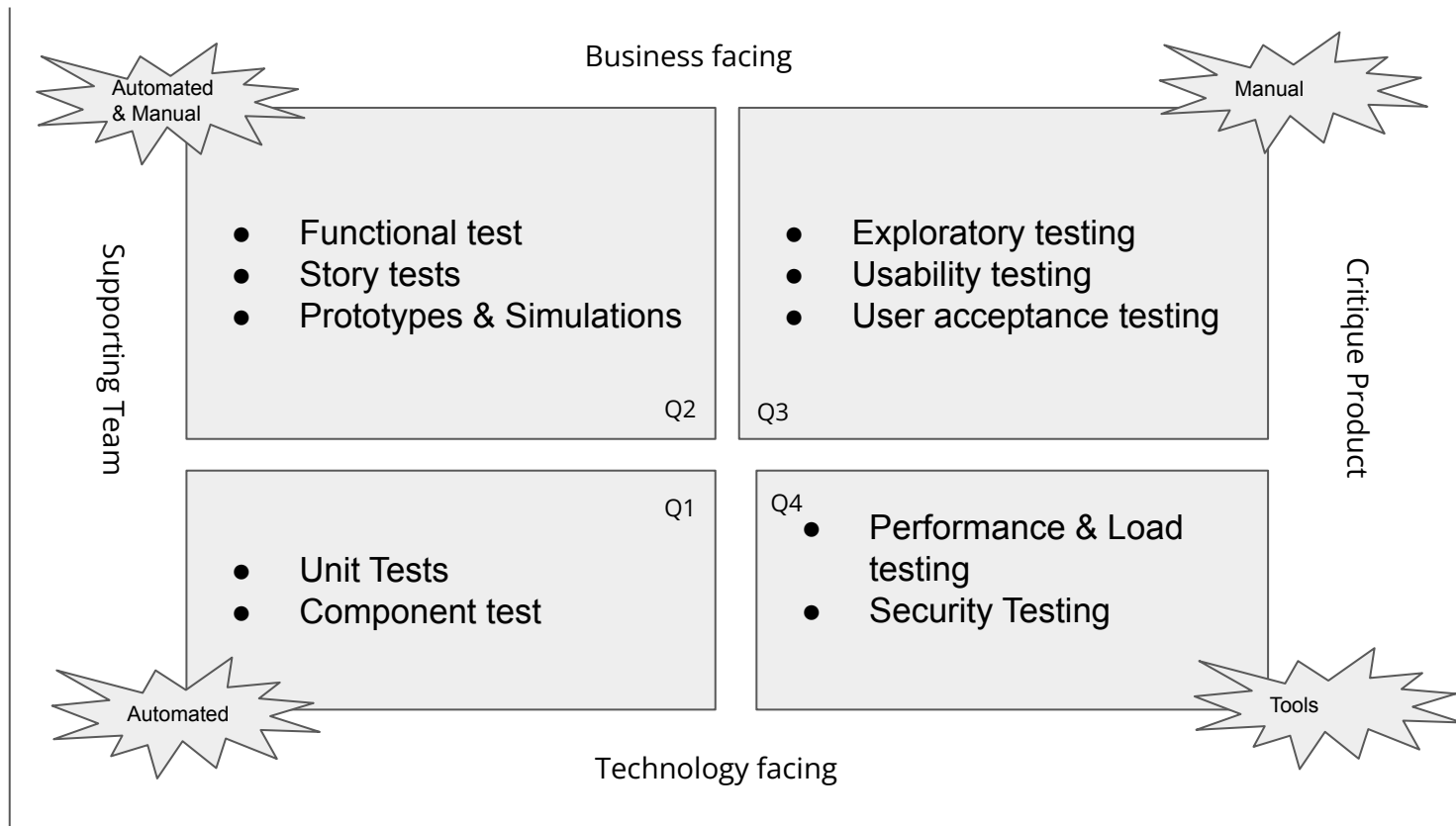


# Testing Types & Defect Management

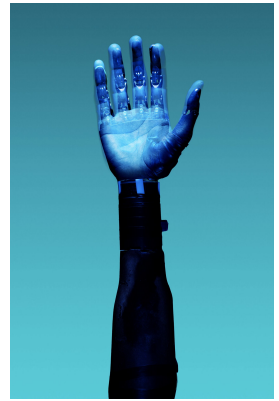
# Agile Testing Quadrants



# Technology facing tests + Supporting Team(Q1)

Foundation of Agile testing & development.

- **Ownership:** Primary developers
- **Run:** Automated
- **Purpose**
  - Saves Qas time in finding low level bugs, inturn creating bandwidth for other testing
  - Testability baked into the code
  - Quick feedback to Developer
- **Examples**
  - Unit test
  - Component test etc



# Business Facing + Supporting Team(Q2)

Addresses business requirement.

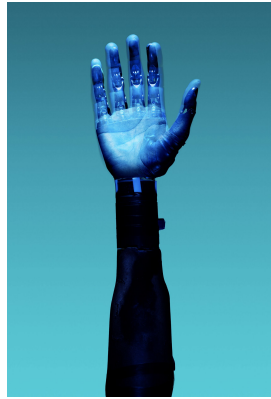
- **Ownership:** Primary QAs
- **Run:** Automated + Manual
- **Purpose**
  - Common language to understand requirements, tells what to code.
  - Helps customer to think of all desired and undesired functionality
  - Help mitigate risk of missing functionality
- **Examples**
  - BDD test/story acceptance test
  - Design/Mock up review
  - Automation: Selenium, Cypress, Appium etc
  - Behaviour Driven development



# Business Facing + Critique Product(Q3)

Recreate actual experience and different business scenarios to make experience more realistic.

- **Ownership:** QAs + BAs/PO
- **Run:** Manual
- **Purpose**
  - Are we building the Right product.
  - Explore System under test
  - Uncovering areas of Product where we can have more automation or new requirements
- **Examples**
  - Exploratory testing
  - User acceptance test
  - Beta testing



# Technology Facing + Critique Product(Q4)

Non functional/Cross functional requirements of the product

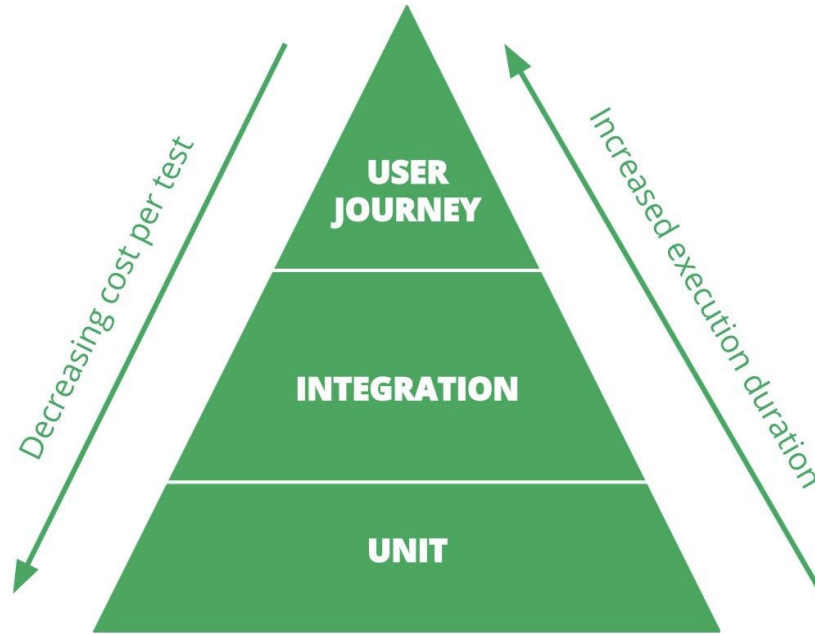
- **Ownership:** Specialist group
- **Run:** Automation with Tools
- **Purpose**
  - Are we delivering right business values.
  - Limits of the application and checklist driven
  - Uncovering technical issues.
- **Examples**
  - Performance, Load, Stress, scalability testing
  - Security testing
  - Interoperability, compatibility, recovery testing
  - “Ility” testing based on Domain



# Automated Testing pyramid

The testing pyramid serves as a guide to where the focus on test automation should be, specifically.

- Focus on the layers from the bottom up first
- More lower level testing reduces the need for more expensive higher level testing.

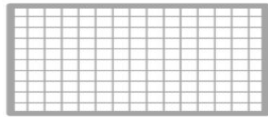


# Exploratory Testing(Q3)

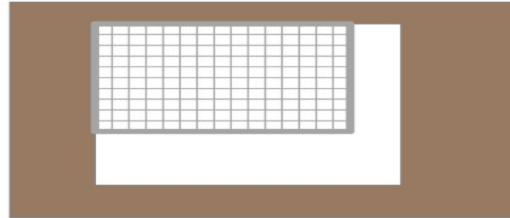
*“Exploratory testing is an approach to software testing that is concisely described as simultaneous learning, test design and test execution”.*

*Reference:Wikipedia*

*A solid suite of automated tests acts  
as a fine net that can catch bugs  
before they get into production*



*But such tests can't tell you if the net  
covers all the cases*



**Exploratory Tests** help understand  
gaps in the testing net



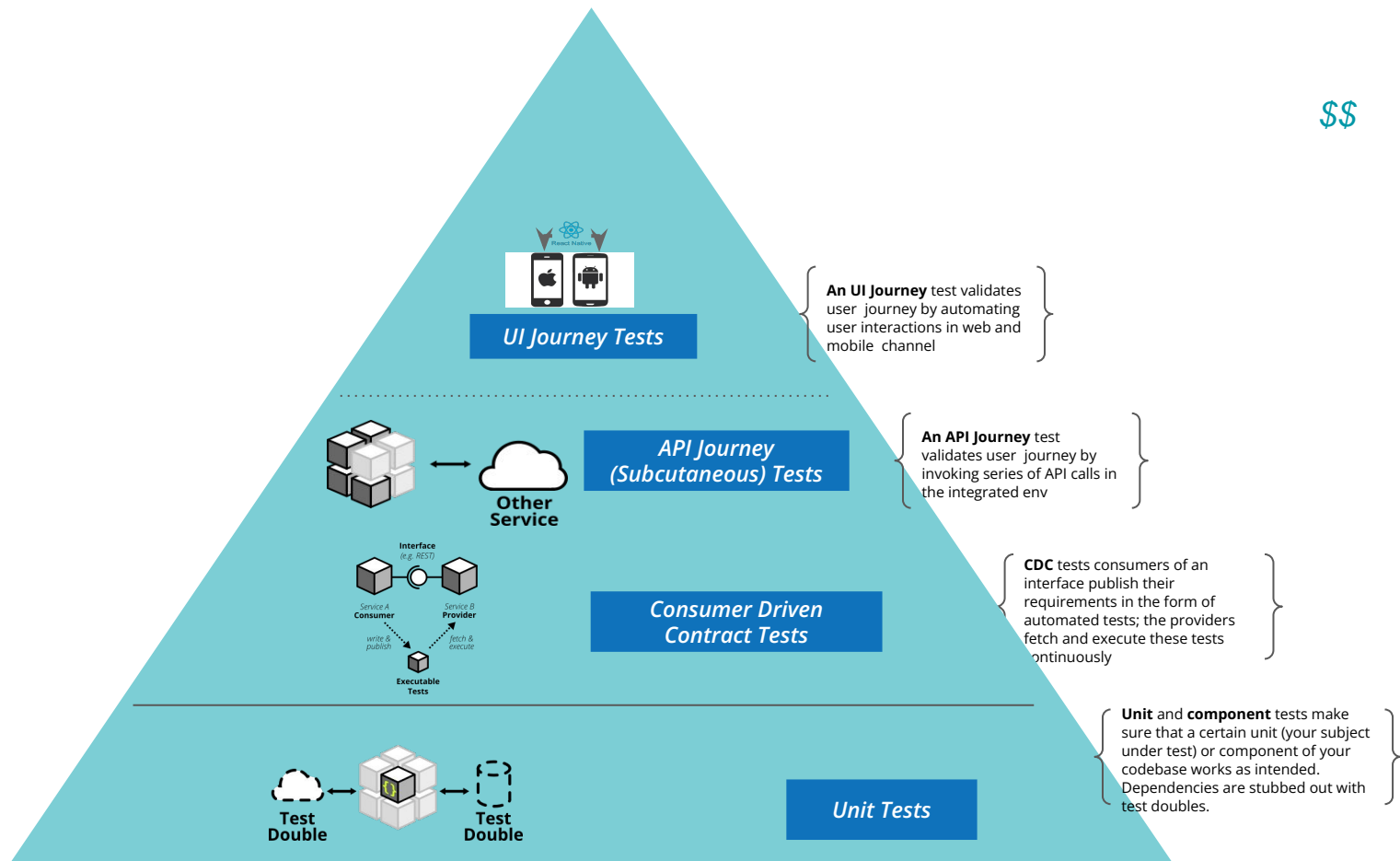
# Exploratory Testing Approach

- Make use of Heuristics to guide testing
- Critical thinking
- Careful observation & Competitive analysis
- Session based testing: Choose mission for focused testing
- Add API Testing & Web Service testing.
- Use Automation can be used to setup different test data, perform repetitive process etc

# Test Strategy

Slower

\$\$



# BUG BASH

**DEPLOY &  
TEST**



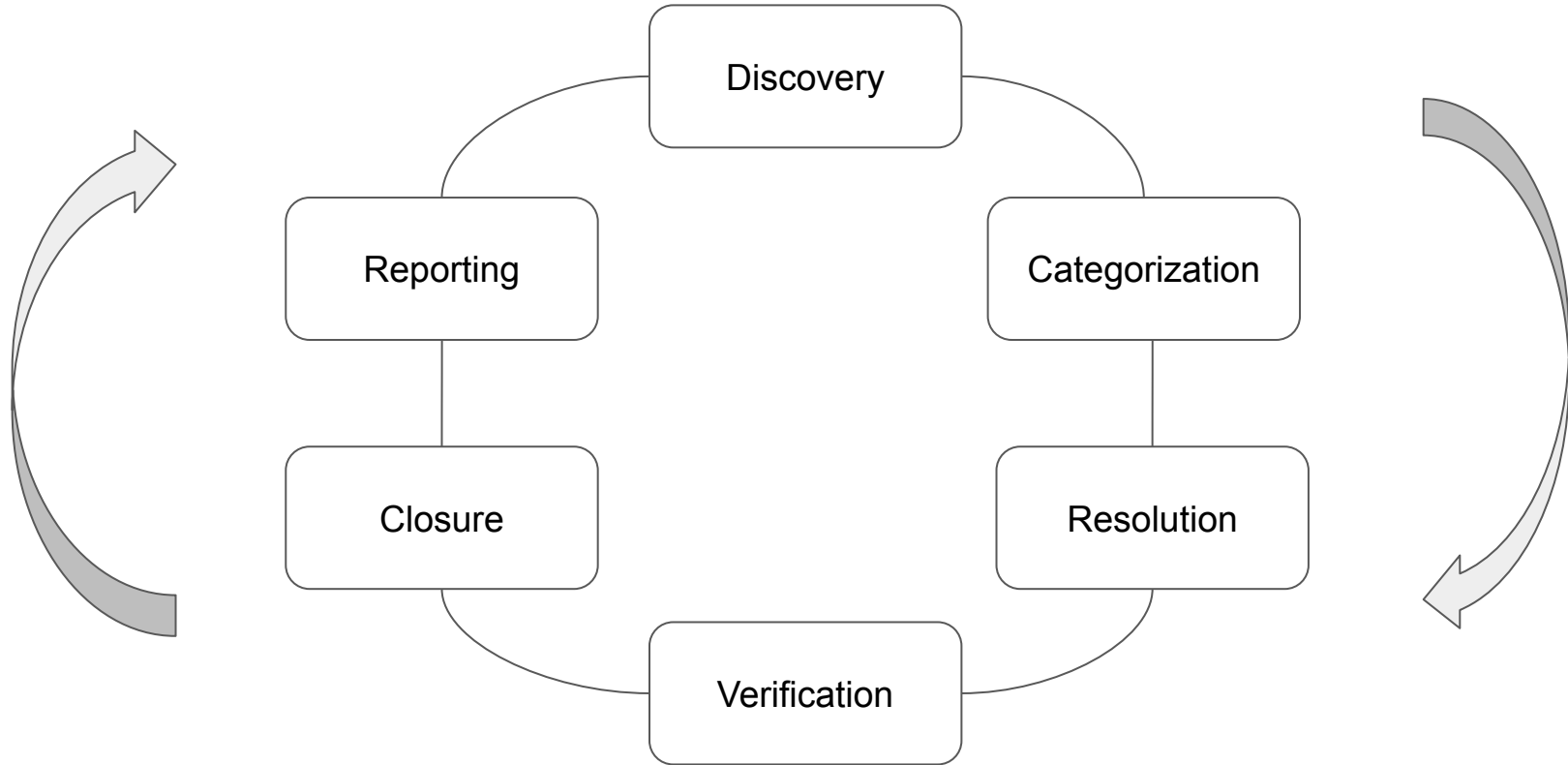
# Testing Blogs

- <https://www.ministryoftesting.com/feeds/blogs>
- <https://blog.testproject.io/>

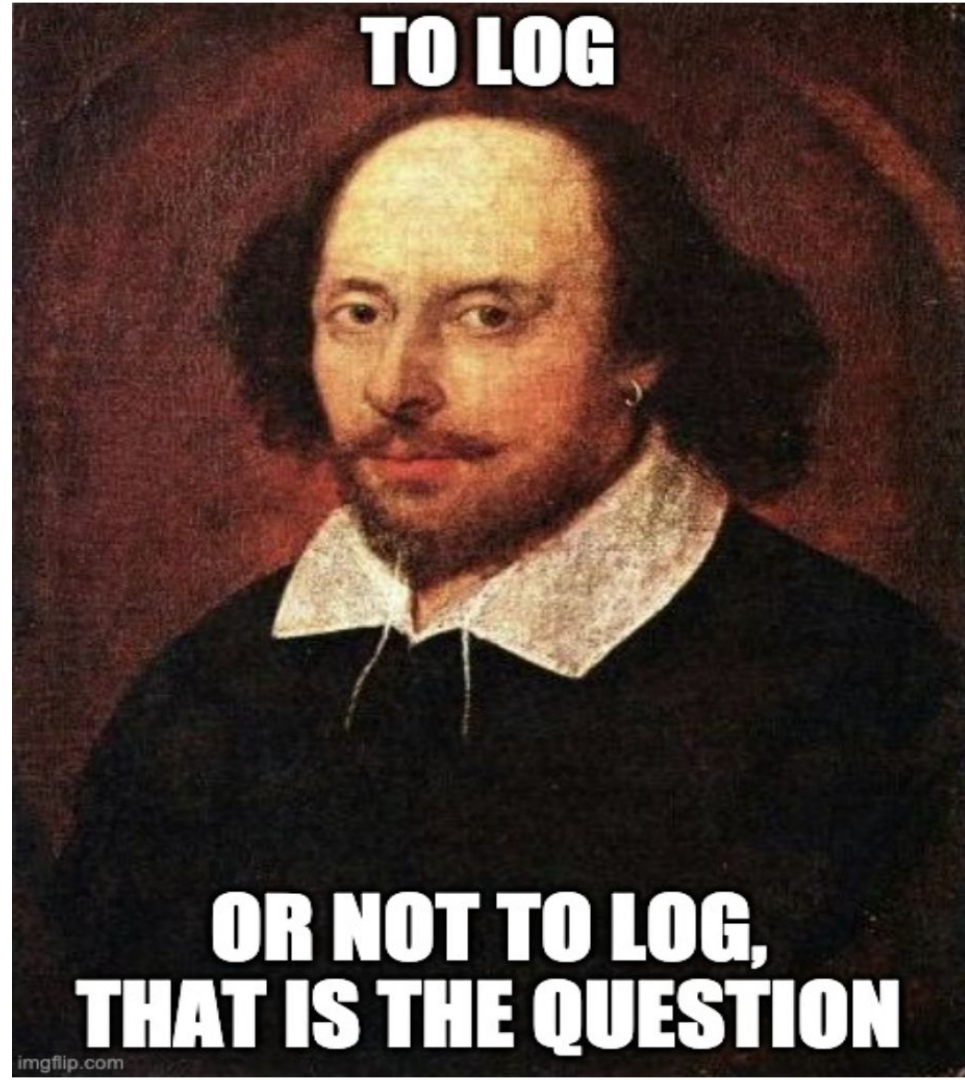
# Defect Management

# Reporting a defect is an art

# What is Defect Management ?



# Defects to Log





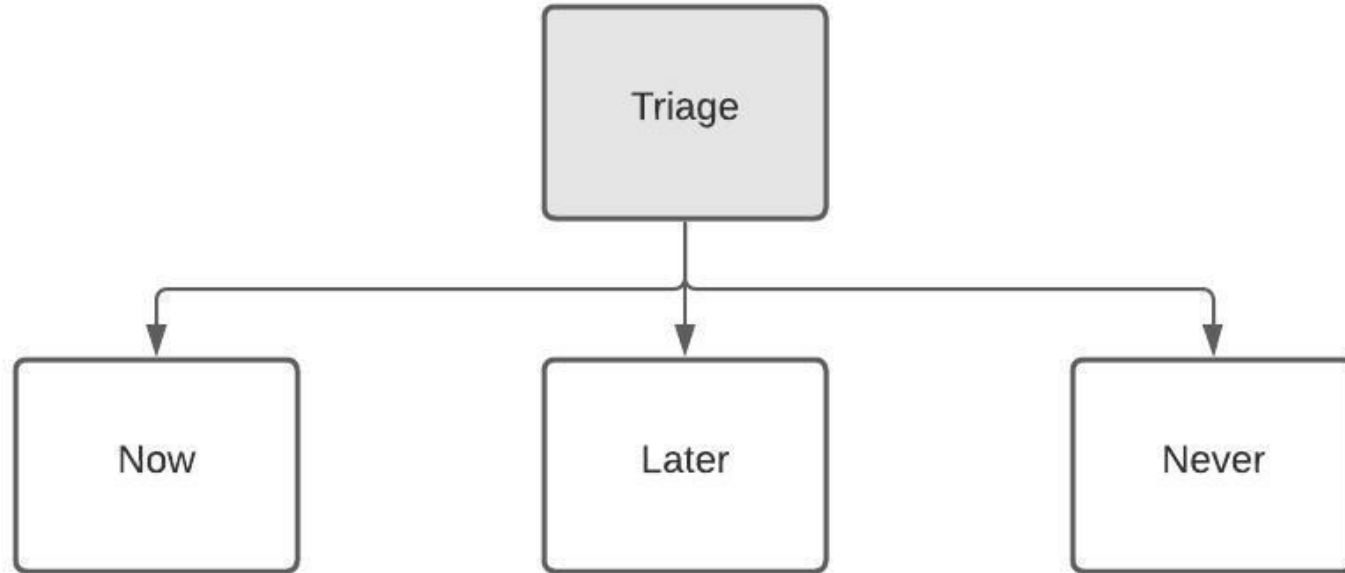
## Log

- Post iteration defects
- Production defects
- Any defect which cannot be fixed immediately

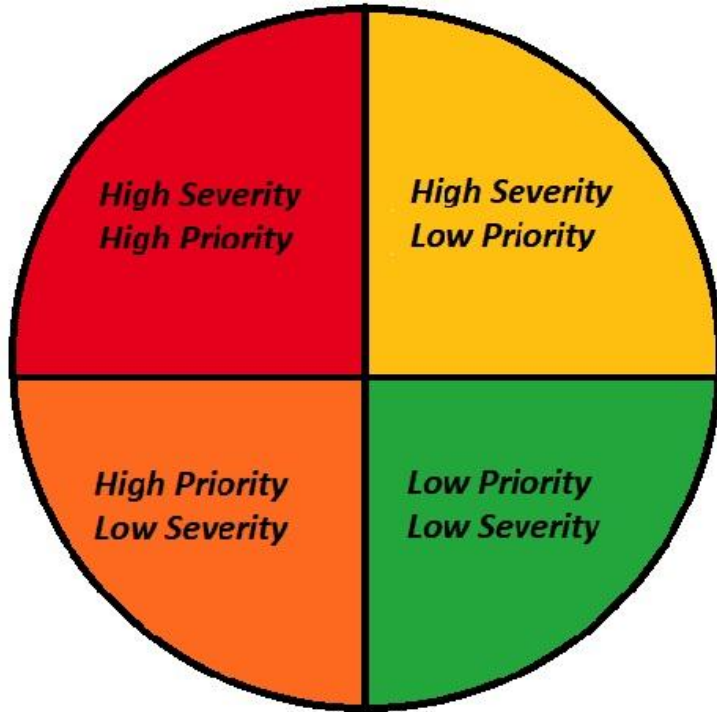
## Not Log

- No need to log all the defects
- Prefer communication with developers over logging defects
- Automated Unit test case failure ,instead act as blocking build
- Flaky tests

# When to Fix Defect



# Defect Triaging



		<b>Priority</b>	
		<b>Urgent</b>	<b>Low</b>
<b>Severity</b>	<b>Critical</b>	Key feature does not work	Feature that is rarely used does not work
	<b>Non-Critical</b>	Company logo is the wrong color	The caption on an image is written in the wrong font

# Where to log Defect

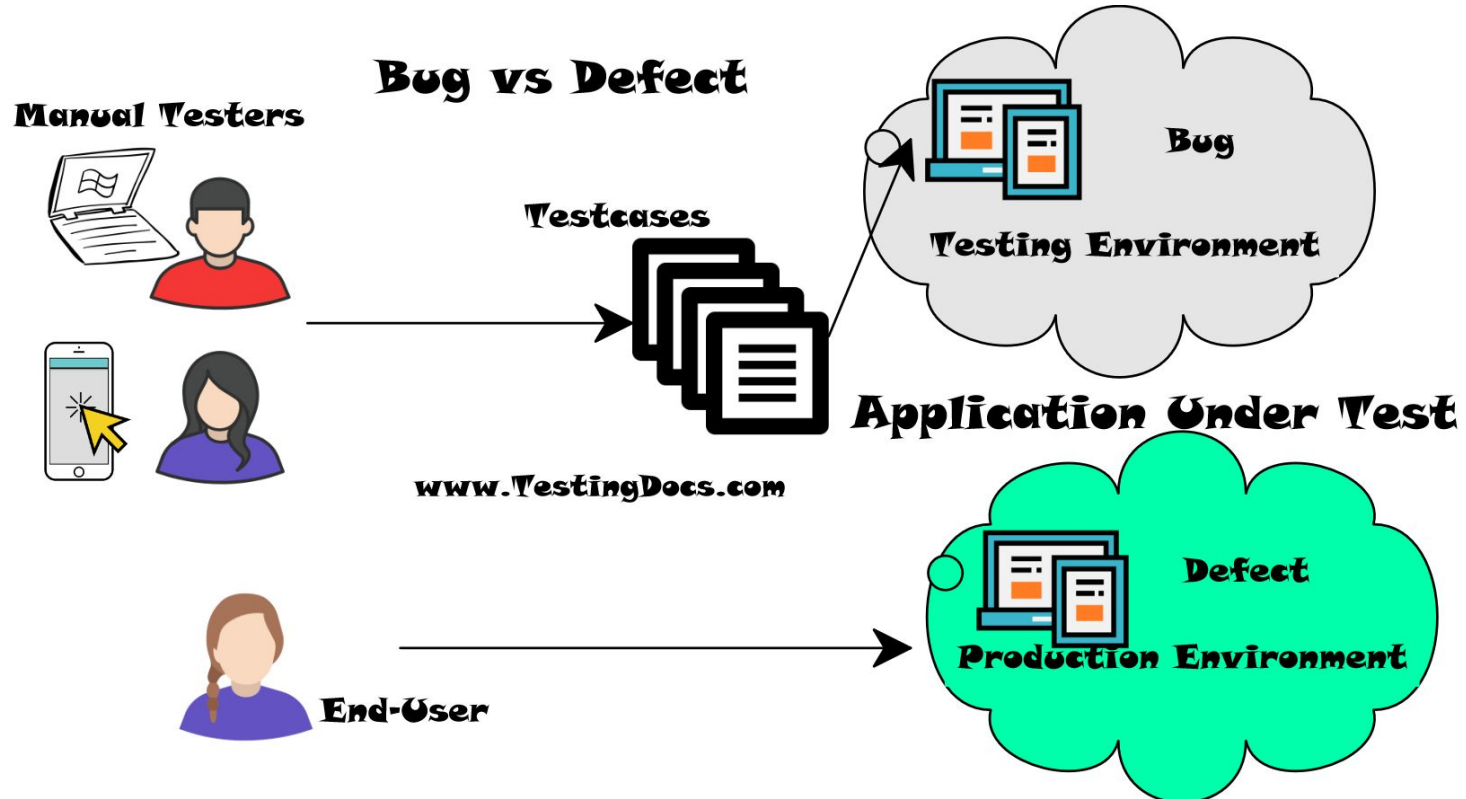
- Can chose stickies write observation
- Use color coding
- Set rules for number of open cards

Else

- Defect tracking system like Jira etc

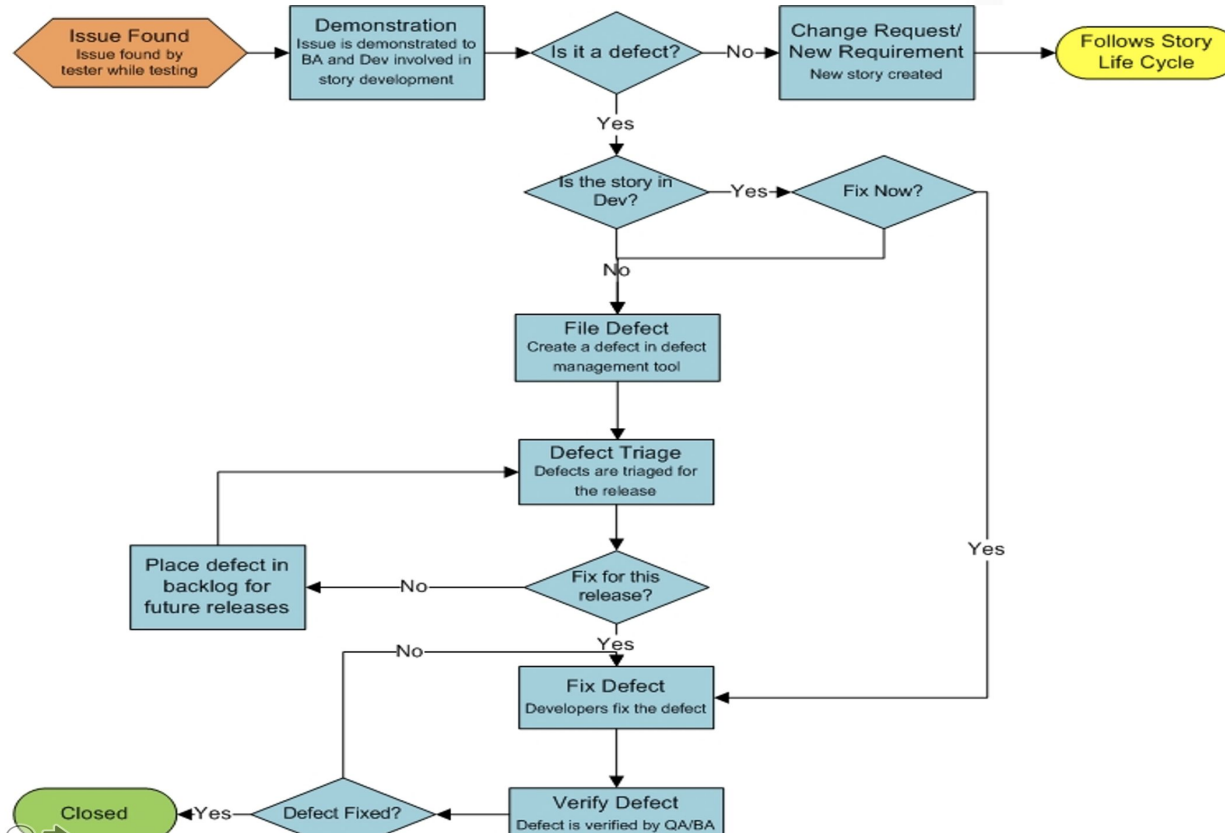


# Defect vs Bug



# Defect Tracking Life Cycle

## [Defect Tracking] Lifecycle



# Defect Matrix, Do we need one?

- Stage where the defect is found
  - Design, Development, Testing, UAT, Production
- Defect trend and categorization of the same like UI, Performance etc
- Failing builds
  - Functional defects Vs Automation script failures



# A defect

<b>Description</b>	<b>Environment</b>
<b>Priority</b>	<b>Test data</b>
<b>Severity</b>	<b>Product version</b>
<b>Steps to reproduce</b>	
<b>Actual Results</b>	
<b>Expected Results</b>	
<b>Screenshots/Error Logs</b>	



# Developer vs Tester

I am not able to replicate this issue. This is working fine on my machine. So close this bug.



I don't care if it is working fine on your machine. We are not going to deliver your machine to Client.





**Thank You**