



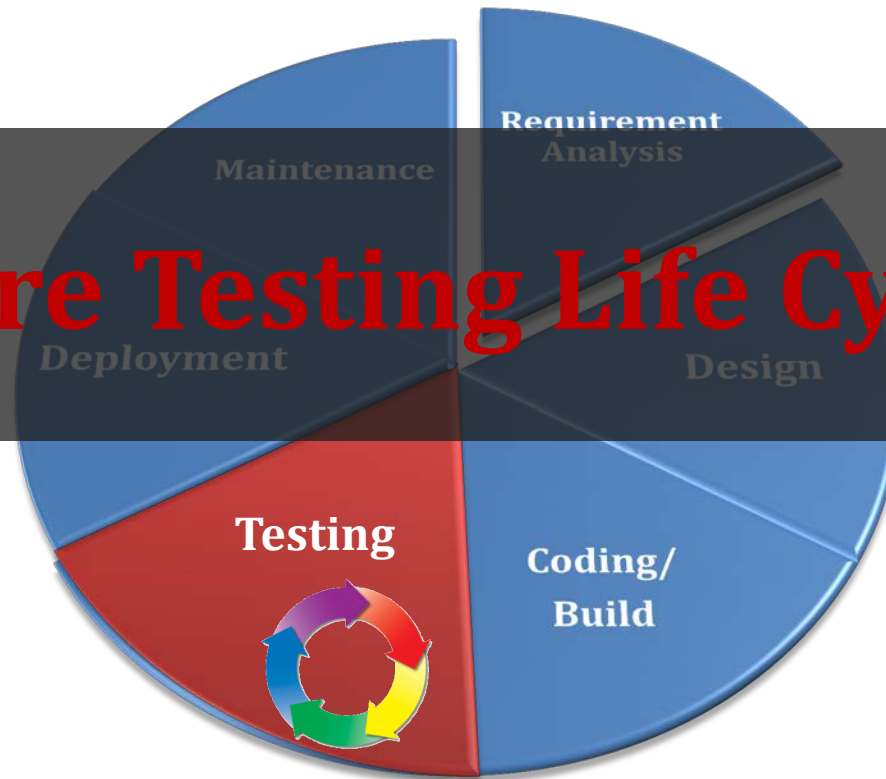
**BruteForce** Solutions Inc.  
*Creating path for success...*



# *Software Testing Life Cycle*



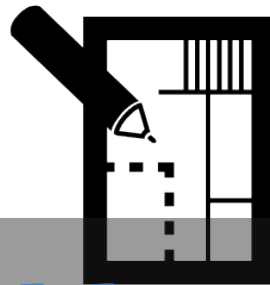
# Software Testing Life Cycle





## Test Planning

1. Prepare test plan
2. In scope & Out scope
3. Selection of testing tools
4. Time estimation & Resource allocation
5. Training requirements



**Deliverable: Test Plan**



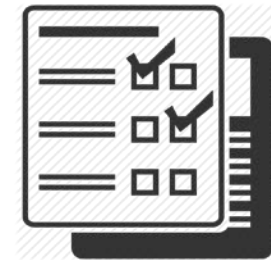
## Test Case Development

1. Create test cases & define the steps to execute test cases
2. Prepare /Collect test data
3. Create RTM



### Deliverable

- Test Cases
- Collect Test Data
- RTM







**Test  
Environment  
Setup**

1. Setup the test environment
2. Test Data setup.

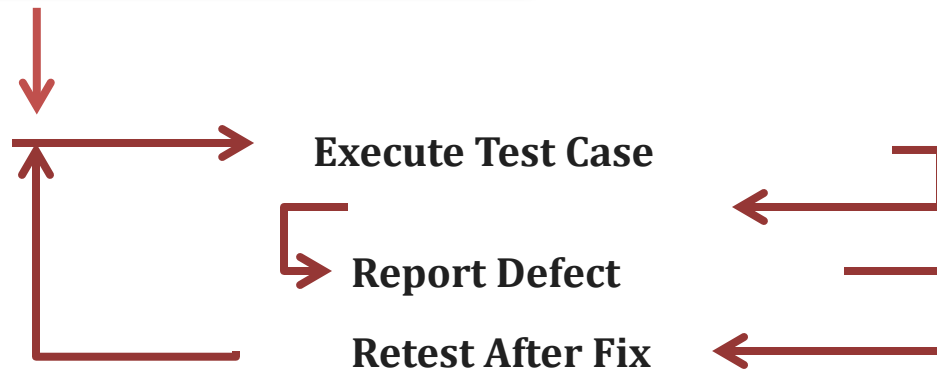
# Test Planning



**Test Execution  
& Log Defect**

1. Execute Test Cases
2. Document Test Results
3. Log defect if any Test Case fail
4. Retest once defect is fixed

**Test Execution & Log Defect**



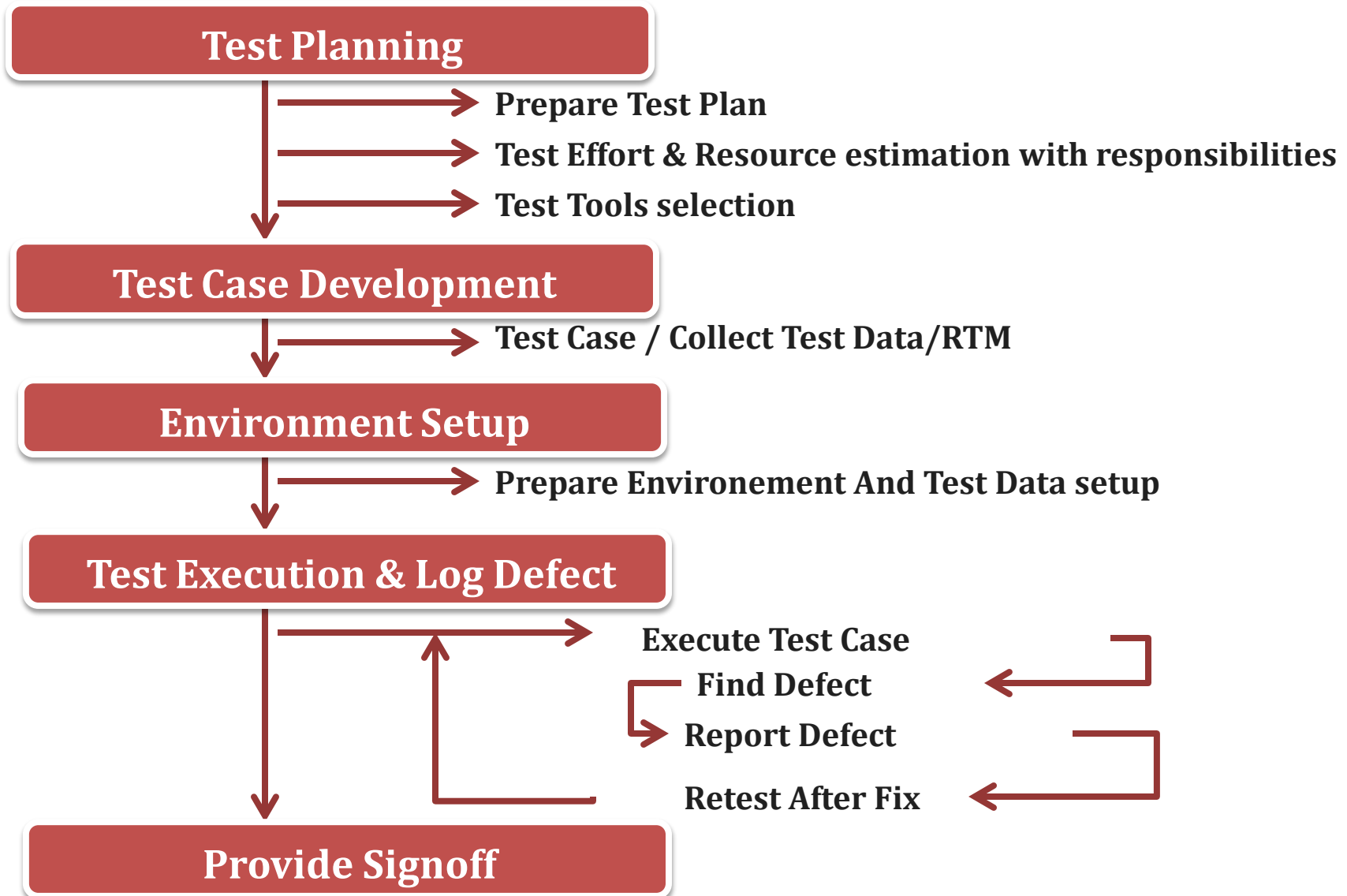


**Signoff**

1. Confirm all required test cases has been executed successfully.
2. No major defects exists
3. Provide Singoff



**Deliverable : Signoff document/Email**





# Requirement Analysis



Users/Client/Stakeholder



Business Analyst(BA)

## Deliverable: Feedback on Requirement



QA Analyst

-  Review requirements & provide feedback
-  Ensure requirements are testable



Business Analyst(BA)


BA provides BRD to  
Architect to Start Design

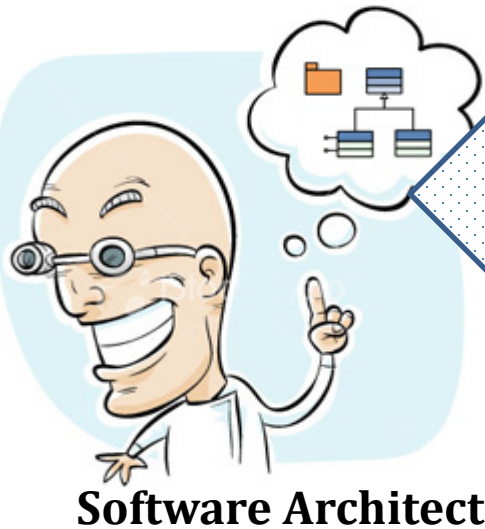


Software Architect

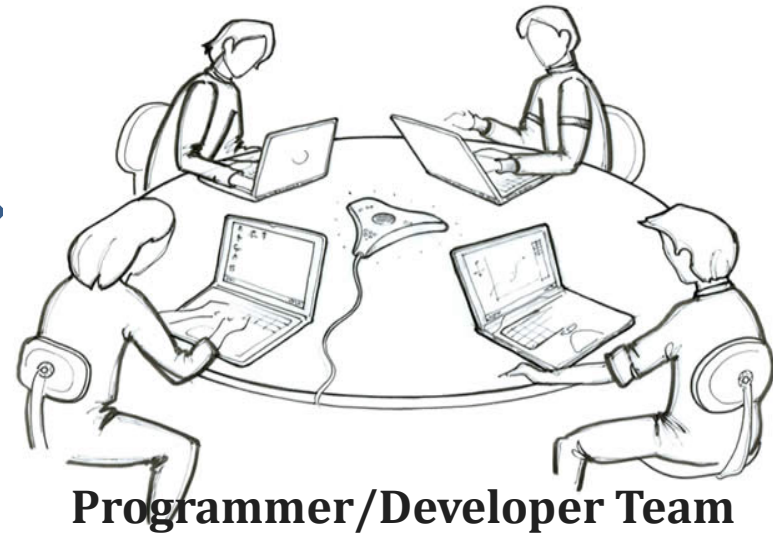
## Deliverable: Test Plan



-  Develop Test Plan
-  Tools selection
-  Resource Allocation
-  Testing Strategy



**Architect provides  
design to developer  
to start coding**



**Deliverables:**  
**Test Cases**  
**RTM**



-  **Create Test Cases & Test Scenarios**
-  **Create RTM**
-  **Prepare Test Data**







**Programmer/Developer Team**

**Software is ready to test.**



**QA Analyst**

-  **Execute Test Cases**
-  **Log Defects**
-  **Send daily status reports**
-  **Testing signoff**

**Deliverables:**

**Test Summary Report**  
**Defect Report**  
**Testing Signoff**







# Summary of Key Concepts



- STLC (Software Testing Life Cycle) start from creating Test Plan, Developing Test Cases, Test Environment and Test Data Setup, Executing Test Cases and logging defects and Provide Signoff.
- Test Plan is details document describes how the testing will be conduct.
- Test Plan contains testing tools selection, time estimation, resource allocation ,training requirements and milestone etc.
- In development stage QA Analyst prepares Test Cases, Collect Test Data and RTM(Requirement Traceability Matrix).
- In Environment setup stage QA Analyst Setup Test Data.
- In Test Execution/Log Defect Stage QA Analyst execute test cases and enter defects, verify fixed defects, provide daily testing status report.
- In Signoff stage QA Analyst provide signoff on test completion.
- QA Analyst's Responsibilities in SDLC
  - Requirement Analysis: Review requirements & provide feedback and Ensure requirements are testable.
  - Design: Develop Test Plan, Tools selection, Resource Allocation, Testing Strategy.
- QA Analyst's Responsibilities in SDLC
  - Development: Create Test Cases & Test Scenarios, Create RTM, Collect Test Data.
  - Testing: Execute Test Cases, Log Defects, Send daily status reports, Testing signoff.
- QA Analyst/Tester doesn't have any participation in Deployment and Maintenance Phase of SDLC.

- ❏ Can you please tell me the QA Testing process from your previous experience?
- ❏ Did you write test plan? What should be included in test plan?
- ❏ What was your role during requirement phase?
- ❏ What did you do when developer is developing the application?
- ❏ What is the first thing you do when developer push the code in QA?
- ❏ What do you do when testing is complete?
- ❏ what do you do when code is in production?

