ActiveNet Unit Test Process

Revision History

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| Date | Author | Content |
| 09/16/2015 | Leon Chen | Initial document. |
| 08/01/2016 | Leon Chen | Modified “How to handle a failed test case” part after review with Darren & Nathaniel. |

# Scope

1. On the task level, all tickets that have code change (New Feature, Bug, Bug Subtask) need Unit Test by default. Except for:
   * Pure UI changes on JS/CSS/HTML
   * 3rd party implementation that cannot be unit tested
   * Report modification in VB
   * Pure CUI changes that doesn’t modify Servlet
   * AUI configuration implementation (add a setting on AUI purely)
2. On the function level, all functions in Servlet need to be Unit Tested.

# JIRA Process

1. Developer should create DEV sub task “DEV – Unit Test” along with other coding/code review DEV sub tasks when a ticket is assigned in Sprint.
2. If a ticket is not testable developer needs to check with direct manager/mentor and add a comment on this ticket why this is not Unit Tested.
3. The Unit Test sub task should also be estimated and filled in estimated hours.
4. The SP should contain the effort of Unit Test in grooming
5. The Due Date should consider the effort of Unit Test.
6. The ticket can be pushed to Code Review only when the Unit Test sub task is done together with code change and UAT cases run.
7. Code Review should cover both coding change and Unit Test.

# How to handle a failed test case

1. Developer must make sure all test cases pass before pushing ticket to next step.
2. If one failure test case is caused by existing codes instead of new implemented codes…
   1. Developer needs to inform QA and reproduce it.
   2. QA needs to create a bug for track.
   3. Developer needs to fix this bug immediately and also work with QA to complete the testing.

# Unit Test for In Sprint Defect

When you are code fixing an In Sprint Defect, you also need to check why it is missed in the Unit Test. And you need to update the unit test cases to reflect the code change in In Sprint Defect fixing.

# Unit Test CI dashboard

<http://anjenkinsm.dev.activenetwork.com:8080/view/CIBS/job/CIBS-ActiveNetServlet/>

<http://anjenkinsm.dev.activenetwork.com:8080/view/CIBS/job/CIBS-ActiveNetPackage/>

# Unit Test Coverage Ops Dashboard

<http://dashboard.activenetwork.com/boards/96675>