

Create UT Case Document with PCL



Instructor << >>

Agenda

- Overview
 - What is PCL
 - Sheets are in PCL:
 - Cover sheet
 - FunctionList sheet
 - Test Report sheet
 - Test function sheets
- Content in Test function sheet
 - Combination of test cases.
 - Condition and confirmation of Test cases.
 - Other items:
 - Function Code, Function Name, Created By, Executed By, Lines of code, Test requirement
- Examples: a example
 - Real code
 - PCL for real code (function)

Overview

- What is PCL (Program Check List)

Overview

- **Cover sheet:** General information of the project and Unit Test cases
- **FunctionList sheet:**
 - The list of Classes and Functions to be tested.
 - To control that the number of Unit TC meets customer's requirement or the norm, user should fill value for
 - 'Normal number of Test cases/KLOC'
 - Click on Function link to open the related Test cases of the function.
- **Test Report sheet:** provide the overview results of Unit test:
 - Test coverage
 - Test successful coverage
 - Summary: Normal/Abnormal/Boundary cases

Content of Function

- **Information:** The list of Classes and Functions to be tested.
 - Function name/Code
 - Number LOC
 - Number of lack TCs
 - Test requirement: brief description of function to be tested
 - Number of TC: Normal, Abnormal, Boundary (automatically)
- **Test Case:** Combination of:
 - Condition
 - Confirmation

Condition

– **Precondition:**

- Setting condition that must exist before execution of the test case.
- Example: file A is precondition for the test case that needs to access file A.

– **Values of input:** 3 types

- Normal: used mainly to ensure the function works
- Boundary: limited values that contain upper and lower values
- Abnormal: non-expected values (processes exception cases)
- Example: $5 \leq \text{input} \leq 10$

N: 6, 7, 8, 9

B: 5, 10

A: -1, 4, 11

Confirmation

- **Confirmation is expected result to check output of each function**
- **Can include:**
 - Output result
 - Output log messages in log file
 - Output screen messages
- **Test case result:**
 - P/OK: Passed
 - F/NG: Failed

