

# The Change Counter System Test Plan

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## Gangof4 Team

Abishek Minde  
Joao Carlos Almeida  
Krishnan Ganesan  
Nisha Narayan

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## Document Revision History

| Version    | Date            | Author        | Reviewer     | Updates                      |
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# 1 Introduction

## 1. Purpose

The purpose of this document is to describe the tests that we plan to run, the order to run them and the test materials needed for each test. It will depict how each use-case is tested and how the test scripts or scenarios cover the requirements areas. It also defines the results each anticipated test should produce and how long it will probably run.

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## 2 Test Log

The following is the Test Log template that will have to be filled in every time a tester tests a particular use-case in the application built.

|   |   |
|---|---|
| 1 | Test Date   |
| 2 | Name of the person running the Test   |
| 3 | Tests that were run (referenced by Test name and/or number)                     |
| 4 | The use-case and configuration being tested                                     |
| 5 | The time each test was started  |
| 6 | The time each test was completed  |
| 7 | The number of defects found with LOGD references and numbers                    |
| 8 | The test results (PASS/FAIL)  |
| 9 | Whether operation intervention was required. If yes how much? (LOW,MEDIUM,HIGH) |

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### 3 Test Plan

After coding phase each programmer will be responsible to execute unit test on his own code. After finishing unit test by all programmers, the team shall start system test. All defects found during unit test shall be logged as describe on this document.

The quality/process manger will be responsible to execute system test and log for defects. The programmers will be responsible to fix the defects found on system testing.

The main system functionalities to be tested are those described as follows.

#### 1. T-UC01 - Upload File

|                                   |   |
|-----------------------------------|---|
| 1. Objective                      | To test the use-case that allows a user to upload a file.   |
| 2. Steps                          | <p>a. The user is provided a menu of options in the command line interface and the user chooses the option to upload a file</p> <p>b. When the system prompts the user to enter the file name, the user shall enter the file name and path.</p> <p>c. System prompts user for confirmation and upon confirmation, creates an initial version of the file in the data storage.</p> |
| 3. Result                         | <p>System should generate a success notification that the file was created;</p> <p>Copy of user file on system data storage.</p>  |
| 4. Total test time                | 5 min   |
| 5. No of defects(estimated)       | 1   |
| 6. Defect free run time(estimate) | 3 min   |

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## 2. T-UC02 - View all Files

|                                   |   |
|-----------------------------------|---|
| 1. Objective                      | To test the use-case that allows a user to view all files.  |
| 2. Steps                          | a. The user is provided a menu of options in the command line interface and the user chooses the option to view the list of uploaded files. |
| 3. Result                         | The system displays the list of uploaded files and options to check out and view file information.  |
| 4. Total test time                | 2 min   |
| 5. No of defects(estimated)       | 1   |
| 6. Defect free run time(estimate) | 1 min   |

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### 3. T-UC03 – Check out a File

|                                   |  |
|-----------------------------------|--|
| 1. Objective                      | To test the use-case that allows a user to check out a file  |
| 2. Steps                          | a. The user enters a file name from the command line interface and then selects the 'checkout' operation.  |
| 3. Result                         | a. If the file is present, the system returns the latest version of the file.<br>b. If the file is not present, the system will prompt user that, 'file is not available'. |
| 4. Total test time                | 2 min  |
| 5. No of defects(estimated)       | 1  |
| 6. Defect free run time(estimate) | 1 min  |



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#### 4. T-UC04 - Check in a file

|                                   |   |
|-----------------------------------|---|
| 1. Objective                      | To test the use-case that allows a user to check in a file after modification.  |
| 2. Steps                          | <ul style="list-style-type: none"> <li>a. User first checks out a file and makes some modifications.</li> <li>b. The user then selects the check-in operation from the command line interface.</li> <li>c. When prompted by the system, the user enters File Name, Author name and purpose of change.(File Name has to be the same name as that of the file that was checked-out and modified.)</li> <li>d. The system stores the latest revision and change summary in the system data store.</li> </ul> |
| e. Result                         | System displays a 'successful check-in notification' message to the user and creates a new file version of the same file in the system.   |
| f. Total test time                | 10 min  |
| g. No of defects(estimated)       | 2   |
| h. Defect free run time(estimate) | 5 min   |

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## 5. T-UC05 View File information

|              |   |
|--------------|---|
| 1. Objective | To test the use-case that allows a user to view particular file information.  |
| 2. Steps     | <ol style="list-style-type: none"> <li>a. User views list of available files from the 'view files' screen.</li> <li>b. Then the user enters a file name and chooses 'view file information' option.</li> </ol>  |
| 3. Result    | <p>The systems displays summary of changes to that file in the below format.</p> <ol style="list-style-type: none"> <li>1. Program Name – String</li> <li>2. Program creation date: MM/DD/YYYY format</li> <li>3. Number of changes done since the initial version: Integer</li> <li>4. Number of deleted lines since the initial version</li> <li>5. Number of added lines since the initial version</li> <li>6. For every change following fields shall be present, we call this change summary <ol style="list-style-type: none"> <li>6.1 Changed by whom</li> <li>6.2 Purpose of the change</li> <li>6.3 Number of lines added (when compared to the previous revision)</li> <li>6.4 Number of lines deleted (when compared to the previous revision).</li> </ol> </li> <li>7. Change header is placed at the beginning in the program file.</li> </ol> |

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|                                   |       |
|-----------------------------------|-------|
|                                   |       |
| 4. Total test time                | 5 min |
| 5. No of defects(estimated)       | 2     |
| 6. Defect free run time(estimate) | 2 min |

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## 4 References

- Chapter 9 -Integration and System Testing, Introduction to Team Software Process, Watts Humphrey.