**XYZ bank**

**Detailed Test Plan - UIS**

**XYZ System**

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1. **Introduction**
   1. **Background**

The Detailed Test Plan (DTP) contains a detailed and executable strategy for conducting. It defines the detailed testing objective specific to a particular system, the testing approach, test environment, test conditions, and the test plan.

Target is to concentrate on internal and external fraud detection. The primary

stage will concentrate on the detection of internal fraud at the retail and private

branch operations and at the activity of staff accounts that defined from XYZ bank.

* 1. **Testing Objectives**

The objectives of testing are as follows:

• Implement a world-class fraud detection system that will be scalable and

expandable and will assist the Bank compact and significantly reduce both

internal and external fraud risk.

• Develop a fraud detection capability that allows the management of multiple

fraud risk types through a common platform.

• Provide a robust fraud detection platform that can be used across multiple

enterprises across the XYZ bank.

* 1. **Document Audience**

| **Role** | **Name** | **Email/ Telephone** | **Organization** |
| --- | --- | --- | --- |
| Product Owner |  |  |  |
| Project Manager |  |  |  |
| PMO |  |  |  |
| QA |  |  |  |
| Functional Team Lead |  |  |  |
| BA |  |  |  |
| Business Unit |  |  |  |
| Development Team Lead |  |  |  |
| Infrastructure Team Lead |  |  |  |
| Infrastructure Team |  |  |  |
| Test Lead |  |  |  |
| Test Team |  |  |  |
| Deployment  Team Lead |  |  |  |
| Deployment Team |  |  |  |
|  |  |  |  |
|  |  |  |  |

*\* Remove the role which may not include in your project charter. \* If document change version and the stakeholder name is changed, should modify the name as well..*

* 1. **References**

This document is based on and refers to the following documents:

**Table 1: Reference**

| **Document Name** | **Author** | **Version** | **Update date** |
| --- | --- | --- | --- |
| 1. <Master Test plan> | <Name of last update person> | <V.9.9> | <Latest update date> |
| 2. Bank Specification |  | V.0.1 | April 29, 2016 |
| 3. <RTM : Requirement Traceability Matrix> | <Name of last update person> | <V.9.9> | <Latest update date> |

* 1. **Definition and Acronyms**

This section provides information regarding the Acronyms and terminology specifically used in this document.

**Table 2: Definitions and Acronyms**

| **Acronym** | **Definition** |
| --- | --- |
| CD | Cash Deposit |
| CW | Cash Withdrawal |
|  |  |
|  |  |
|  |  |
|  |  |

1. **Testable Items**
   1. **In Scope**

This test activity focuses on the following:

1. Perform investigations based on business rule.

2.

3.

### Functional Scope

To list all functional area and description that will be in scope of testing.

Table 3: Functional

| **Functional Area** | **Functional Sub Area** | **Description** |
| --- | --- | --- |
| BR001 | BR001\_1 | Detailed description |
| BR002 | BR002\_1 | Detailed description |
| BR003 | BR003\_1 | Detailed description |
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### Non Functional Scope

To list all non functional area and description that will be in scope of testing.

**Table 4: Non Functional**

| **Non Functional Requirement** | **Description** |
| --- | --- |
| NFR-001 | Detailed description |
| NFR-002 | Detailed description |

* 1. **Out of Scope**

***[It is important to clearly define (at a high level) all of the testable components of the solution that will not be tested. These should include infrastructure, functional subsets, non-functional requirements, and software modules. Specific testing activities (such as load and performance testing, penetration tests, etc) should also be listed. Brief reasoning behind why the items have been de-scoped should be included].***

**Table 5: Out of Scope Content**

| **Item** | **Description** |
| --- | --- |
| 1 | <High level describe the item of out scope> |
| 2 | <High level describe the item of out scope> |
| 3 | <High level describe the item of out scope> |
|  |  |
|  |  |

* 1. **Testing Exclusions**

***[A test exclusion is an element of the SUT that has not been de-scoped but which will not be tested by this plan due to (usually) a logistical issue. These may include activities such as report/letters distributed by fax/email/sms and may reference the test phase/level that will be responsible for conducting this testing].***

1. **Detailed Test Approach**

***All testing conducted by, or for, the KT Program complies with the Master Test Strategy. This DTP has been created to define the test activities documented in the Master Test Plan***

***[Insert Release Name and Test Activity] will be tested using the following approach:***

***[List (in detail) the key elements that make up the strategy you will use to deliver the required test objectives. Wherever possible link specific activities to the relevant test objective. Change/edit the accompanying descriptions to suit the individual release].***

* 1. **Naming Conventions for Function Groups and Functions**

***[Use the Configuration Management naming conventions to define the structure used for the test project nomenclature. If HP Quality Center is to be used ensure the nomenclature rules also align with the requirements defined for it. The Test case ID should be agreed with the naming convention.***

***Rename this section as required:***

***… for Function Groups and Functions***

***… for Scenarios and Usecases***

***etc]***

* 1. **Test Case Design**

***Extract testable requirements from the requirement specifications and design test conditions which accurately reflect the functional enhancements and changes.***

***[Add design elements/requirements specific to this test activity].***

Identify test approach about test case design before identify the detail of test case test script in next step. To declare what is the concern item of each module or functional/non functional area and what the test case design is for detect the defect. The test technique should be state for this section. XYZ bank test coverage matrix should be mention and state that how to ensure the project will follow this guideline.

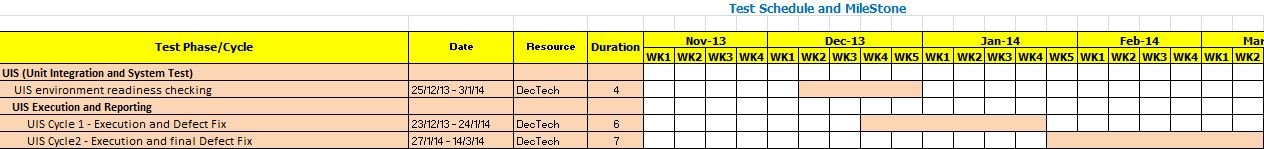
Test design should mention about the group of regression impact. If the most of the defect occur on the area which test case design should be re-test. And the regression test approach should be mention as well.

* 1. **Test Scheduling**

Identify test schedule for <Test level> base on <project master plan version>. The high level plan for testing preparation, test execution, defect fixing, and data test preparation period are identified as below. <The format of schedule can demonstrate in structure of table of calendar or schedule in Microsoft project>

***[For complex test schedules reference any external tools or systems you will be using/developing to support the scheduling. Include specific flags or nomenclature that will be used to identify/classify test scripts and test cases that have to be executed at a specific point in the schedule. (pre or post batch, day one, after script xyz has executed, etc]***





**Table 6: Example test cycle**

| **Batch Run #** | **Function to be Executed** | **Cycle Date** |
| --- | --- | --- |
| Batch Run 1  (Daily) | Account Enquiries  New Account Set-up  Transaction Processing | TBD \*(to be defined) |
| Batch Run 2  (Cycle) | Interest Posting  Minimum Payment | 12/06/09 |
| Batch Run 3  (Daily) | Interest Accrual | TBD \*(to be defined) |

* 1. **Data Build**

Identify plan to get data for each testing area. Mention the approach and activity plan for getting test data properly. The process step of prepare data mention here.

***[Document the strategies that will be used to generate or extract appropriate data for the test effort].***

* 1. **Results/Sign-Off**
     1. **Suspension/Resumption Criteria**

Testing will halt for a particular project item (or function) when:

* A critical problem is identified and where the potential code fix will require substantial re-testing of that function
* It is identified that the business or technical specifications require major modifications due to escalated test issues and those modifications would require additional test analysis and or modification to the Detailed Test Plan.
* The test regions or test environment are not available (for any reason).
* The test regions or test environment suffer performance problems below 50% of their normal operating capacity, such that a region fix will require substantial re-testing of that function.
* [Document all other suspension/resumption. Make sure the resumption criteria are unambiguously defined].

<Select from below table only testing level related on this DTP> consider the entry and Exit criteria reasonable on your project>

* + 1. **Pass/Fail Criteria**

The specific pass/fail criteria for the testing at both the test cycle and release level are identifying in table below. This can include percentage of severity 3 and 4 defects that will be allowed to migrate between test/production environment and any specific business defined criteria. Identify information in this part , select only current testing level involve in this DTP.

***[Document any specific pass/fail criteria for the testing at both the test cycle and the overall test activities. This can include percentage of severity 3 and 4 defects that will be allowed to migrate between test/production regions and any specific business defined criteria].***

**Table 7: Entry and Exit criteria of testing level**

| **Testing Level** | **Entry criteria Guideline** | **Exit Criteria Guideline** |
| --- | --- | --- |
| UIS testing | * Test environment available with latest software build * Updated requirements documents (including change requests) * Component designs signed-off * Interface designs (e.g. message formats/API protocols) agreed with Architecture team and with dev teams * Environment configuration  data has been defined and set-up | * U/I/S testing objectives met * All outstanding errors documented and assigned a severity level agreed with the Vendor manager * All severity critical and high errors corrected or with agreed short-term workarounds * Full defect logs from final cycle of testing available for review * Sample test plans/scripts available for review * Test summary report distributed * Software release packaged and under source control |
| SIT testing | * System, Pre-SIT test exit criteria met * Business requirements and specification documents signed-off * Test environment available with latest software build deployed * Environment configuration  data has been defined and set-up * Consolidated release note available * SIT test preparation complete * SIT risk based schedule agreed by all parties | * SIT testing objectives met * All test cases have been executed at least once (100% execution coverage) * All outstanding errors documented and assigned a severity level agreed with the release management and vendor management. * All severity critical and high errors corrected or with agreed short-term workarounds * SIT testing analysis complete * Test summary report distributed and approved |
| UAT testing | * SIT exit criteria met * Business requirements signed-off * Business process maps complete and signed-off * Training material available * Test environment available with latest software build deployed * Environment configuration  data has been defined and set-up | * UAT testing objectives met * All test cases have been executed at least once (100% execution coverage) * All outstanding errors documented and assigned a severity level agreed with management team * All severity critical and high errors corrected or have documented workarounds formally agreed with business * Test summary report distributed and approved * Formal UAT Sign-off from K-Bank received |
|  |  |  |
|  |  |  |

1. **Test Conditions**

## Business Event 1*-* BR001

Testing will demonstrate the following:

## **Business Event 2 – BR002**

Testing will demonstrate the following:

## **Business Event 14 – BR0014**

Testing will demonstrate the following:

There is any financial transaction from dormant account. The dormant account means the account does not have any movement from customer action after end of the first due for 365 days. This excludes all batch jobs i.e. interest posting.

| **Product** | **Start Date** | **Due Date** | **Open A/C / Sub A/C** |  |
| --- | --- | --- | --- | --- |
| 3 Month | 1/1/2013 | 31/3/2013 | 90 | (1) |
| 3 Month | 1/4/2013 | 30/6/2013 | 90 | (2) |
| 3 Month | 1/7/2013 | 30/9/2013 | 90 | (3) |
| 3 Month | 1/10/2013 | 31/12/2013 | 90 | (4) |
| 3 Month | 1/1/2014 | 31/3/2014 | 90 | (5) |
| 3 Month | 1/4/2014 | 30/6/2014 | 90 | (6) |

The first due of 3-Month fixed account (1), 31/3/2013 + 365 days = 31/3/2014

If there is no customer transaction within 31/3/2014, this 3-Month fixed account is called dormant account.

**Application Name:** S1-ET, CT-Win

1. **Test Environments**

List and/or graphically show the proposed testing environment/s. For small testing projects complete all of the listed sections. Larger projects may require a separate Test Environment Plan to be produced. If Master test plan already specify may refer to MTP plan instead.

* 1. **Client Side Infrastructure**

Provide detailed list/s of required hardware and software at Client side to support testing activity of each test level and test environment. May use tabular format for explain the content.

* 1. **Host/Server Side Infrastructure**

Provide detailed list/s of required hardware and software at Host or Server to support testing activity of each test level and test environment. May use tabular format for explain the content.

* 1. **Middleware**

Provide detailed list/s of required Middleware to support testing activity of each test level and test environment. Eg. Test engine or test stub required for interface test.

* 1. **Test Data preparation**

Define the data subset/s that needs to be pre-loaded into the test environments. This content in is mention about infrastructure preparation view, it does not about the data condition or concept that mention in section 3.2 Data test.

***[Provide detailed data requirements. Where specific data is required to establish a data condition or execute a test script provide either a list of these data requirements or reference the location of this information. Include the processes that will be used to deliver the data to the test region. (production extract by operations staff, build by automated scripts, generated by the development team/vendor etc)].***

1. **Test Schedule**

***[Provide a schedule showing how testing will be divided for execution. Use the following as an indicative sample. If a separate schedule is used provide an appropriate docref: and link and reference the rules governing its management].***

| **Batch Run #** | **Function to be Executed** | **Cycle Date Req** |
| --- | --- | --- |
| Batch Run 1  (Daily) | * Account Enquiries * New Account Set-up * Transaction Processing | NIL |
| Batch Run 2  (Cycle) | * Interest Posting * Minimum Payment | 12/06/09 |
| Batch Run 3  (Daily) | * Interest Accrual | NIL |

**Appendix A - System Schematic/s**

Clearly document the System Schematic used for test on this level.