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VERSION HISTORY

Provide information on how the development and distribution of the , up to the final point of approval, was controlled and tracked. Use the table below to provide the version number, the author preparing the version, the date of the version, the name of the person approving the version, the date that particular version was approved, and a brief description of the reason for creating the revised version.

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# Introduction

## Purpose of the Document

The Test Plan has been created to communicate the test approach to team members. It includes the objectives, scope, schedule, risks and approach. This document will clearly identify what the test deliverables will be and what is deemed in and out of scope.

# Test ITEM

## Project description

The main purpose of this project is to calculate taxes based on our income as per tax rates in Ontario 2017.

## Items to be Tested / Not to be Tested

This could be newly added or updated features. An indirect feature that has technical or functional dependency on newly added or updated features. Out of scope feature. Excluded product features from current Test Plan.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** |  |  | **Item to Test** | **Test Description** | **Responsibility** |
| 1 |  |  | Tax calculation as per income | Calculate the taxes as per income and tax rates | Tester |
| 2 |  |  | Tax calculation with RRSP Contribution | Calculate the taxes as per income and RRSP contribution | Tester |
| 3 |  |  | Tax calculation without RRSP contribution | Calculate the taxes as per income and without RRSP contribution. | Tester |
| 4 |  |  | Tax calculation with below margin income | Calculate the taxes for below margin income(ex: 10000) | Tester |
| 5 |  |  | Tax calculation with negative values | Calculate the taxes and enter the negative value for income | Tester |
| 6 |  |  | Tax calculate with ‘0’ value | Calculate the taxes when income value is ‘0’. | Tester |
| 7 |  |  | Tax calculation with more than margin value | Calculate the taxes when income value is more than margin value(ex: 10000000) | Tester |

## Items to be Not tested

|  |  |  |
| --- | --- | --- |
| **S.No** | **Item Not To test** | **Description** |
| 1 | Anything not included in BRD or functional Specs | If Requirements are not Sign off and not from initial estimations, then initially, the functionality will Out of Scope for testing. |
| 2 | Equipment | Infrastructure |
| 3 | Recovery | Backup and recovery |
| 4 | Failure | Fixing and repairing of errors identified (Fixing team scope) |

## Test Approach(s)

Since the API standard specifies a software interface

## Since the API Standard specifies a software interface, most tests will involve application programs written for test purposes, called the "Test Software," which call API Software functions

The extensive combinations of functions that are possible using the API Software make exhaustive testing of the API libraries impractical. However, a set of practical tests can and should still be performed as follows:

a**) Unit Testing**. This testing will focus on completeness of the API Software with respect to the API Standard function call specifications. It will validate the presence and arguments for each API function.

b) **Integration Testing**. It is impractical to validate the operation of the API Software functions without the use of other API Software functions. Consequently, integrated testing involving groups of related API Software functions is required. Each API function shall be a part of at least one integrated test. The focus of integration testing will be on correctness of the API Software.

c) **System Testing**. This testing will focus on loading and stressing the API Software. This will include multiple test application programs running concurrently on the ATC controller unit. The focus of this testing will be on robustness of the API Software.

## Test Pass / Fail Criteria

## The test items as specified in Test items will be tested according to the TDSs, TCSs and TPSs identified in features to be tested. If any of the tests for a test item fail, the test item is considered to have failed. If all of the tests for a test item pass, the test item is considered to have passed.

## Test Entry / Exit Criteria

## Test entry criteria have to be met before starting the testing. Test exit criteria must be fulfilled before the test can be finalized. The criteria help ensure that the solution at the agreed quality can be released to the next test level or to production

|  |  |  |
| --- | --- | --- |
| **Category** | **Criteria description** | **Limit value** |
| **ENTRY CRITERIA** | | |
| Product delivery | Scoped functionality completed | 100% |
| System and training documentation | 100% |
| Deliveries from previous test level | Unit test cases executed (ALM) | 100% |
| Unit test cases have passed as completed | >85% |
| Open **Priority** **critical** defects currently under review/resolution | 0 |
| Open **Priority High** defects currently under review/resolution | <10% of active defects |
| Max of active defects under UT phase | <20% of active defects |
| The previous test level has been completed and signed off | Completed and signed off |
| Previous Test phase Test Report | Prepared and delivered |
| Handover | Test cases covering System Integration Testing and End-to-end testing with test cases entered into ALM | Signed off |
| Test planning and preparation | Test plan covering System Integration Testing, Sign off by Local & Central Project Management | Signed off |
| Business End-to-End Scenarios | Prepared and delivered |
| Test cases are reviewed (Stake holder/Business Analyst) and accepted. | Reviewed and accepted |
| Environmental readiness | Test environment availability, stability, performance and defect resolution SLA’s have been agreed. | Agreed |
| Test environment as specified in the Landscape Strategy and in the Test plan | Must be available |
| Test data in the required quality and quantity. Migrated data available as per the Data Migration Plan | Must be available |
| Test users (application users) with the required role and authorization. | Must be available |
| **EXIT CRITERIA** | | |
| Product delivery | Scoped functionality completed [mandatory] | 100% |
| Test execution | Agreed System and Integration test cases executed, including End-to-end test cases | 100% |
| System and Integration Testing test cases have passed as completed, including End-to-end test cases | >95% |
| Open **Priority critical** defects currently under review/resolution | 0 |
| Open **Priority** **High** defects currently under review/resolution | 0 |
| Test execution | Max Of **Active defects** in SIT phase (Handover to UAT Phase). Defects report to be submitted | <10% of active defects |
| Test cases results | TCs evidence should be attached at HP ALM | 100% evidence passed |
| Sign-off | The fully integrated solution has been approved as ‘production ready’ and can be tested in UAT.  The Test Summary Report for SIT is signed-off. | Done by Local & Central Project Management  Go/no go to UAT |

## Test Deliverables

* Test Specifications document.
* Test Plan document
* Test Scenario document
* Test Case document
* Traceability matrix
* Test execution reports
* Test summary reports
* Test execution reports
* Bug reports
* Test Status Reports
* Environment and configuration files

## Test Suspension / Resumption Criteria

Suspension criteria and resumption requirements are subject to the organization exercising this test plan and its associated TDSs, TCSs and TPSs.

## Staffing / Training Needs

Staffing and training needs are subject to the organization exercising this test plan.

# Risk and mitigation

## Test Risks / Issues

# If anomalies are found in an implementation of API software that this test plan did not cover, the API should be contacted through the Program Manager so that an appropriate test can be added to the next version of this test plan.

# If this test plan is not employed, there is a high potential for program risks including:

# • API library vendors may make unsubstantiated claims of conformance.

# • There will be less confidence in the deployment of API Standard.

# • There will be lost time and money to the industry.

# • There will be slower deployment.

# • Some of the goals of this program will not be achieved.

# Test Environment and infrastructure

## Required Infrastructure

## Mentioned the details of the enevironment to be used for this application. foe ex: operating system, any tools to be used

# Roles and responsibilities

## Roles and assigned responsibilities

Describe various roles and responsibilities given to them. E.g. Junior Tester, Senior Tester, Project Manager etc.

# Test Schedule

There is no fixed schedule for this test plan. It is designed to be applied whenever an organization determines it is necessary

# Approval

The undersigned acknowledge they have reviewed the Entaxy Test plan document and agree with the approach it presents. Any changes to this Requirements Definition will be coordinated with and approved by the undersigned or their designated representatives.

List the individuals whose signatures are required. Examples of such individuals are Business Steward, Technical Steward, and Project Manager.

Appendix A: Key Terms

The following table provides definitions for terms relevant to this document.

|  |  |
| --- | --- |
| **Term** | **Definition** |
| ALM | Application Life Cycle Management |
| BRD | Business Requirement Document |
| API | Application Programming Interface |
| TCS | Test Case Specification |
| TDS | Test Design Specification |