

# Test Plan

**RM\_TP\_1\_1.0.0**

RajaMark

Version : 1.0.0

Prepared  
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## **Introduction**

### **Purpose**

The test plan supports the following objectives:

- i. To detail the activities required to prepare for and conduct the system test.
- ii. To communicate with all responsible parties the tasks that they are to perform and the schedule to be followed in performing the tasks.

To define the sources of the information used to prepare the plan.

### **Scope**

The scope of testing only covers black box functional testing for features developed in the Unified Transform System for NFR001 until NFR006. The test plan only covers system-level tests, excluding unit tests, static tests, integration tests, acceptance tests, regression tests, confirmation tests as well as other types of tests not mentioned in this Test Plan. It would focus on meeting the requirements of the system and making sure that the system is fit for purpose.

### **References**

The following IEEE standard have been referenced in the preparation of this document.

- i. IEEE 829-2008 Standard for Software and System Test Documentation.

The following documents provide the test basis for this test design:

- i. Software Design Document (RM\_SDD)

## **Details of Test Plan**

### **Test Items**

The following document(s) will provide the basis for defining the correct operation:

- i. Software Design Document (RM\_SDD)

### **Test Traceability Matrix**

The following table contains the non-functional requirements and its traceability.

Function ID	Functions	Risk Level	Source of Function
NFR001	Performance Efficiency	High	SDD
FR002	Usability	High	SDD
FR003	Reliability	High	SDD
FR004	Security	Medium	SDD
FR005	Maintainability	Low	SDD
FR006	Compatibility	Low	SDD

### Non-Functional Requirements to be Tested

Function ID	Functions	Risk Level
FR001	Performance Efficiency	High
FR002	Usability	High
FR003	Reliability	High
FR004	Security	Medium
FR005	Maintainability	Low
FR006	Compatibility	Low

### Features Not to be Tested

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## **Approach**

The Unified Transform test focuses solely on the system's non-functional aspects, following a risk-based strategy. The testing will be conducted as a non-functional test, adhering to testing techniques such as:

- i. Load Testing
- ii. Latency Testing
- iii. CPU Utilization Testing
- iv. Usability Testing
- v. Endurance Testing
- vi. Exploratory Testing
- vii. Stress Testing
- viii. Recovery Testing
- ix. Security Testing
- x. Privacy Impact Assessment
- xi. Penetration Testing
- xii. Code Review
- xiii. Documentation Review
- xiv. Regression Testing
- xv. Compatibility Testing (Cross-Browser Testing and Cross-Device Testing)

## **Item Pass/Fail Criteria**

The system must satisfy the following criteria in order to pass:

- i. All test cases must be passed
- ii. No deadlock during operation

Other than that, all test items must fulfill its requirements as stated in the System Design Document (SDD\_v0.2)

## **Test Deliverables**

The following documents will be generated by the system test group and will be delivered during the system testing.

Test documentation:

- i. Test Plan
- ii. Test Design Specifications
- iii. Test Case Specifications

- iv. Test Logs
- v. Test Incident Reports

## **Entry Criteria**

The following items are needed before the testing can begin:

- i. Project Description for RajaMark
- ii. System Design Document (SDD\_v0.2)

## **Exit Criteria**

The following items are needed before the testing can end:

- i. All Test Deliverables in Section 2.8 Test Deliverables have been delivered to the client.
- ii. Test execution has been completed.
- iii. Open defect at the end of final iteration shall be:
  - Zero fatal defect,
  - Zero major defect
  - Zero minor defects.

**Approvals**

Approved Date	Approved Version	Approver role	Approver