

**CAPSTONE PROJECT 1**

**DEMARK - DECENTRALIZED MARKET**

Test Plan Document

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**Project Information**

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| **Project acronym** | FRA | | | |
| **Project Tittle** | DEMARK: Decentralized market | | | |
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**Document Approvals**

The following signatures are required for approval of this document.

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1. **Introduction**

A test plan is a detailed software verification document that provides specifics on how the validate will test all aspects of software design. Test plans are test specifications used as guides for writing test case suites for design validation in both the software engineering fields. This test plan document contains a description of product functionality, a description of test cases to be written for each function, and a description of the testing platform to be used.

1. ***Purpose***

The purpose of the Test Plan is to define, schedule and monitor the test execution. It supports the following objectives:

* Provide a high-level list of the major target test functions.
* List the Requirements for Test.
* Describe the testing strategies to be employed on each target test functions.
* Identify the required resources and schedule the Test execution

1. ***Scope***

This Test Plan is for release test plan for FRA system.

The Test Plan defines the unit, integration, system testing approach. The test scope includes the following:

* Testing of all functions.
* Application performance
* Use cases requirements listed in the Product Backlog and User Stories document.

1. ***Out of scope***

The following are considered out of scope for “FRA” Test Plan and testing scope: Security testing for “FRA” system

1. ***References***

**Table 1: Document references**

|  |  |
| --- | --- |
| **No** | **Document references** |
| 01 | Proposal document |
| 02 | Product Backlog document |
| 03 | Project Plan Document |

1. ***Risk list***

**Table 2: Risks list**

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Risk** | **The plan for corrective & preventive** | **The level of influence** |
| 1 | Time | Reduce time and increase individual personal time working in their stay on the Saturday day and Sunday | H |
| 2 | A test experience | Experience sharing used to reduce the research time | M |

1. **Target test areas**

* Unit Testing
* Integrations Testing
* System Testing
* Acceptance Testing
* GUI Testing
* Performance Testing
* Load Testing
* Stress Testing
* Security Testing
* Usability Testing

1. **Test Specification**
2. ***Features to be tested***

* FE01 – Login
  + Login
* FE02 – Manage Token
  + Deploy token
  + View token request

* FE03 – View token on market
  + View token
* FE04 –Token details
  + View information of a specific token
  + Transfer token
  + Buy token
  + Withdraw token
  + Reward
  + Deposit
  + Buy token history
  + Transfer history
  + Withdraw history
  + Fund transfer history
* FE05 – Request submit token
  + Send request submit
* FE06 – Logout
  + Logout

1. ***Features not to be tested***

Not applicable as all features will be tested

1. ***Test Deliverables***

* Test Plan Document
* Test Case Document
* Test Summary Report

## Requirements for test

***Test Items***

The following list describes the features that will be tested:

**Table 3: List description of the features**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID function** | **Function** | **A part of** | **Priority** | **Type Test Case** | **Note** |
| FE05-01 | Send request submit | Request submit token | 1 | User Interface  Function Test |  |
| FE02-01 | Deploy token | Manage Token | 2 | User Interface  Function Test |  |
| FE02-02 | View token request |  | 2 | User Interface  Function Test |  |
| FE03-01 | View token | View token on market | 3 | User Interface  Function Test |  |
| FE04-01 | View information of a specific token | Token details | 4 | User Interface  Function Test |  |
| FE04-02 | Transfer token |  | 4 | User Interface  Function Test |  |
| FE04-03 | Buy token |  | 4 | User Interface  Function Test |  |
| FE04-04 | Withdraw token |  | 4 | User Interface  Function Test |  |
| FE04-05 | Deposit token |  | 4 | User Interface  Function Test |  |
| FE04-06 | Buy token history |  | 4 | User Interface  Function Test |  |
| FE04-07 | Transfer history |  | 4 | User Interface  Function Test |  |
| FE04-08 | Withdraw history |  | 4 | User Interface  Function Test |  |
| FE04-09 | Fund transfer history |  | 4 | User Interface  Function Test |  |
| FE01-01 | Login | Login | 5 | Function Test |  |
| FE06-01 | Logout | Logout | 6 | Function Test |  |

***Test Strategy***

* Describe the overall approach to testing. For each major group of features or feature combinations, specify the approach which will ensure that these feature groups are adequately tested. Specify the major activities, techniques, and tools which are used to test the designated groups of features.
* The approach should be described with sufficient details to permit identification of the major testing tasks and estimation of the time required to do each one.

***Hardware environment***

* Computer dell 7566
* Computer asus x552

**Test Milestone & Deliverables**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | **Milestone Date** | **Milestone** | **Deliverables** | **Test Strategy** | **In charge of** |
| 1 | Start: 24-Sep  End: 03-Oct | Sprint 1 | Exchange UI Design |  | Team |
| 2 | Start: 25-Sep  End: 03-Oct | Sprint 1 | Smart Contract Design |  |  |
| 3 | Start: 26-Sep  End: 03-Oct | Sprint 1 | Architect Design |  |  |
| 4 | Start: 27-Sep  End: 03-Oct | Sprint 1 | Database Design |  |  |
| 5 | Start: 24-Sep  End: 12-Oct | Sprint 2 | Exchange UI Design |  | Team |
| 6 | Start: 26-Sep  End: 15-Oct | Sprint 2 | Architect Design |  |  |
| 7 | Start: 25-Sep  End: 21- Oct | Sprint 2 | Smart Contract Design |  |  |
| 8 | Start: 08-Oct  End: 21-Oct | Sprint 2 | Request to Submit Token |  |  |
| 9 | Start: 09-Oct  End: 21-Oct | Sprint 2 | Submit token |  |  |
| 10 | Start: 10-Oct  End: 21-Oct | Sprint 2 | View List Token |  |  |
| 11 | Start: 25-Sep  End: 04-Nov | Sprint 3 | Smart Contract Design |  | Team |
| 12 | Start: 08-Oct  End: 04-Nov | Sprint 3 | Request to Submit Token |  |  |
| 13 | Start: 09-Oct  End: 04-Nov | Sprint 3 | Submit token |  |  |
| 14 | Start: 10-Oct  End: 04-Oct | Sprint 3 | View List Token |  |  |
| 15 | Start: 23-Oct  End: 04-Nov | Sprint 3 | User's Balance |  |  |
| 16 | Start: 08-Oct  End: 09-Nov | Sprint 4 | Request to Submit Token |  | Team |
| 17 | Start: 10-Oct  End: 08-Nov | Sprint 4 | View List Token |  |  |
| 18 | Start: 23-Oct  End: 11-Nov | Sprint 4 | Deposit |  |  |
| 19 | Start: 23-Oct  End: 11-Nov | Sprint 4 | Token Detail |  |  |
| 20 | Start: 23-Oct  End: 11-Nov | Sprint 4 | User's Balance |  |  |
| 21 | Start: 21-Nov  End: 03-Dec | Sprint 5 | Transaction history |  | Team |
| 22 | Start: 21-Nov  End: 03-Dec | Sprint 5 | Transfer |  |  |
| 27 | Start: 21-Nov  End: 03-Dec | Sprint 5 | Withdraw |  |  |
| 32 | Start: 21-Nov  End: 03-Dec | Sprint 5 | Buy token |  |  |
| 33 | Start: 21-Nov  End: 03-Dec | Sprint 5 | Reward |  |  |

1. **Test Cycle and Exit Criteria**

## Entry Criteria

* All test hardware platforms must have been successfully installed, configured, and functioning properly.
* All the necessary documentation, design, and requirements information should be available that will allow testers to operate the system and judge the correct behavior.
* Proper test case is available.
* The test environment such as, lab, hardware, software, and system administration support should be ready.

## Exit Criteria

* All test cases have been run.
* A certain level of requirements coverage has been achieved.
* No high priority or severe bugs are left outstanding.
* All high-risk areas have been fully tested, with only minor residual risks left outstanding.
* The schedule has been achieved.
* Not over the allowed project cost

# Tools

* Selenium