**Internet based DTS (IDTS)**

**Test Strategy**

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# Scope

Banca Valla had decided to design and develop an internet based DTS  
The system was to provide functionalities to the following categories of users:

Administrators

Manager and members of the Derivatives Trading Division

Customers of Banca Valla (End Users)

**Rules and Regulations:**

The Securities exchange board of Vietaly has laid out the rules and regulations for internet based trading as well as derivative trading. The application must be compliant with these rules and regulations.

**Needs:**

Banca Valla wants to launch this system in 3 months, even though the estimates reveal that it would take 5 months to complete this system with all the identified functionality.

# Test Approach

The testing approach for this release is as follows:

* Unit testing: Testing each component in modules such as login, registration, home page etc.
* Integration test: Testing the integration between each module such as login page, home page, etc.
* System test: Testing the whole applications. Performed on a complete integrated system to evaluate the compliance of the system with the corresponding requirements
* Performance test :

Load Testing: Performed to test the performance of the system or software application under extreme load.

Stress Testing:Tounderstand the upper limits of a system's capacity using a load beyond the expected maximum

* Smoke test: Preliminary testing to reveal simple failures severe enough to, for example, reject a prospective software release.
* Regression test:Testing existing software applications to make sure that a change or addition hasn't broken any existing functionality.
* User acceptance testing: Safeguard against such unfinished, ineffective or faulty software products reaching rollout.

# Test Environment

**OS:** Windows 10, Windows11, Mac Os

**Processor:** 2 GHz i7

**Software configuration:**

**Browser:** IE, MOZILLA, NETSCAPE, EUDORA

**System Requirements:**

The IDTS is to be developed using **database DB**, application server **APPS** and programming platform **PROG**.  
The IDTS customers would access the application using browsers. Expected distribution of browsers that would be used by customers is:

O IE – 45 %  
 o Mozilla – 35 %  
 o Netscape – 17 %  
 o Eudora – 3 %

# Testing Tools

Selenium can be used for automation.

Manual testing can be done if necessary.

# Test Delivarables

* Business requirement document
* Functional Requirement Document
* Requirement Traceability Matrices
* Test Strategy Requirement
* Test Case Requirement
* Test summary Report

# Risk Analysis

|  |  |  |
| --- | --- | --- |
| **Risk** | **Mitigation Strategy** | **Impact** |
| Delays in delivering completed Test Items from Development would impact test timescales and final Release quality | Product Management and Development to advise of any delays and adjust Release Scope of Resources to allow the test activities to be performed. | High |
| Delays in the turnaround time for fixing critical bugs, which would require re-testing, could have an impact on the project dates. | Strong management of bug resolution would be required from Development to ensure bugs are fixed and available for re-testing in the scheduled time. | High |
| The Test Team, Development or PM teams require domain guidance from one or the other and they are not available. This would delay project activities. | The Test Team, Development and PM teams to ensure they are available at critical points or contactable during the project activities. | Medium |
| Features of Test Items will not be testable. | The Test Team will record untested features and request the PM to assess business risk in support of the release of untested features. | Low |
| Unexpected dependencies between Test Items and service components are encountered that require revision of Test Scenarios and related Test Cases. | Information about dependencies is updated and communicated promptly to allow timely revision of Test Scenarios and Test Cases | Low |

# Review and Approvals

The following people are required to approve the Test Strategy

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| --- | --- |
| **Approval By** | **Approval** |
| Test Manager | Sunil Nagaraj |
| Team | Mariya Sajan |