***TEST STRATEGY DOCUMENT for Banca Valla***

Table of Contents

1. Scope

2. Test Approach

3. Data approach

4. Types of testing

5. Test estimation

6. Testing Tools

7. Release Control

8. Risk Analysis

9. Review and Approvals

***1. Scope***

This is the test strategy for Internet based DTS Testing

QA manager, Project Manager, Team Lead, Tester, etc. can finalize approval reaview the final version of this document.

All the essential critical functionalities will be tested with respect to admin, manager and end user functions .

***2. Data Approach***

It defines

• Process of testing

• Testing levels

• Roles and responsibilities of each team member

• Types of Testing ( Load testing, Security testing, Performance testing etc.)

• Testing approach & automation tool

• Adding new defects, re-testing, Defect triage, Regression Testing and test sign off

***3. Test Environment***

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 are :

IE – 45 %

Mozilla – 35 %

Netscape – 17 %

Eudora – 3 %

***4. Types of testing***

• smoke testing

Functional testing

Integration testing

System testing

ADHOC testing

Performance testing

Regression testing

UAT testing

***5.Test estimation :-***

According to the requirements:-

High level testing/critical functionalities will be tested in 3 months

***Manager functionalities:-***

* Approve registered users for providing them access to the site
* Ability to setup the transaction limits for each customer based on the customer’s credit assessment and past performance record
* Ability to set up the customers in terms of whether they are allowed to deal in international derivatives or not
* Ability to setup commission rate for domestic derivatives, commission rate for domestic derivatives, commission rates for transactions settled within the same transaction period, graded commission rates for various levels of trading volumes
* Ability to generate a register of transactions during a given period
* Should not have access to view the stop loss / book profit orders
* Should not have access to view time driven orders
* Ability to print a transaction record along with a duplicate copy of all successfully executed transactions.
* Ability to place a customer on hold after which the customer would not be able to continue to trade
* Ability to release a customer on hold
* Ability to close a customer account and remove the customer from the customer list of the system and the bank
* Ability to generate customer trading details including payment track record
* Ability to register as a customer for the internet derivative trading service
* Ability to view derivative prices online in the form of a price ticker
* Ability to place orders to buy and sell selected derivatives
* Ability to place time driven orders
* Ability to place stop loss / book profit orders
* Ability to view the balance of derivatives in their derivative account
* Ability to view the cash balance in their trading account
* Ability to view the history of transactions for the last n months
* Ability to cancel placed orders prior to their execution

User functionalities:-

Ability to prepare and send messages to a customer

Ability to prepare and send messages to groups of customers

Apart from these functionalities all the non-critical functionalities can be tested within a time period of 5 months.

***6. Testing Tools***

• Automation and Test management tools needed for test execution

UI testing – Selenium

Backend testing – SoapUI ,restassuredapi

Performance testing – jmeter

Security testing – skillfish

UI testing – test NG , j unit

• Determine how many users,managers and admins are supported on it and plan accordingly .

***7. Release Control***

• Creation of management plan document with respect to the initial requirements provided by the client and to process smooth testing cases in each stage .

• Installation process guide will be provided and done .

***6. Risk Analysis (IDTS)***

• List all risks that you can estimate and prioritize them according to the severity. Low and high

• Give a clear plan to mitigate the risks also a contingency plan.

***7. Review and Approvals***

• All these activities are reviewed and sign off by the business team, project management, development team, test team etc.

• Summary of review changes should be traced at the beginning of the document along with approved date, name, and comment