**TEST STRATEGY:**

**Internet Based DTS Exercise**

**Time:** Launch this system in 3 months, even though it would take 5 months to complete.

**Tests:**

* Check browser compatibility
* Security test for the validation of rules and regulations and login details
* Check the availability for 12 years and archive for further 12 years
* Receive and display the feed to the customers
* Interface with the bank’s demat management system
* Interface on a real time basis and to place an order and obtain details of execution status
* Handle the various types of orders
* Updating of the versions
* Users are expected to be past hands on
* No activity for more than 3 minutes must be terminated after 2 min 30 sec
* Accept and process orders only within the limits setup for the given customer
* Expected to demonstrate a performance of less than 5 secs
* Have a maximum concurrent user load
* Information security through a scrutiny of the design and the code

**Requirements:**

**Epic: Administrators**

**User stories:**

* Ability to setup access rights to various parts of this application for other classes of users.

**Epic: Manager and members of the Derivatives Trading Division**

**User Stories:**

* 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 prepare and send messages to a customer
* Ability to prepare and send messages to groups of customers
* 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

**Other User stories:**

* 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

**Epic: Customers of Banca Valla (End Users)**

**User Stories:**

* 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 stop loss / book profit orders
* Ability to place time driven 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
* Ability to send derivative trading related queries to manager and members of derivatives trading division
* Ability to send queries / suggestions on the internet based system to the system administrator
* Ability to log in into the system
* Ability to log out of the system
* Ability to set preferences in terms of bank’s products, receipt of mailers, ….
* Ability to set x, y and z aspects of user interface based on their preferences
* Ability to view successfully executed orders
* Ability to print a transaction record

**Access Testability:**

Operability – 4

Controllability – 5

Observability – 5

Simplicity – 4

Understandability – 5

Suitability – 3

Stability – 4

**Factors:**

Correctness

Authorization

Continuity of processing

Access control

Reliability

Performance

Integrity

**The lifecycle stages of this factors in levels of testing**

Correctness: Integration testing

Authorization: Integration testing

Continuity of processing: Post UAT

Access control: System Testing

Reliability: UAT

Performance: System Testing

Integrity: System Testing

**Access drivers that would influence testing:**

Correctness: Integration testing - Individual Tester

Authorization: Integration testing - Individual Tester

Continuity of processing: Post UAT - Client/Management

Access control: System Testing - Tester

Reliability: UAT - Client/Management

Performance: System Testing - Tester

Integrity: System Testing - Tester

**Approach:**

Correctness: Validation

Authorization: Validation

Continuity of processing: Verification

Access control: Verification

Reliability: Verification

Performance: Validation

Integrity: Validation

**TEST PLAN:**

* **Test item:** Internet based DTS Exercise
* **Software risk issues:** Security, Performance, Testing at the browser, Platform, Browser, Configuration
* **Features to be tested:** Register user, Customer, Manager and Member functions, Admin functions
* **Features not to be tested:** New version not to be tested
* **Approach:** White box and Black Box testing
* **Test deliverables:** Source code, Test scenario, Test plan, Test case, Test execution report, Test report, Defect report
* **Item pass/fail criteria:** If I find 6 minor bug, 1 major bug, with no Critical/Show Stopper in this case I consider the application as pass criteria
* **Suspension and Resumption criteria:** Show stoppers in application or Non availability of resource/ Availability after When it is resolved
* **Staffing and Training need:** Five testers are required/ Which all the area you need training
* **Schedule:** Two Weeks