**Test Strategy for Internet based DTS**

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# **Scope**

* Reviewed by– Vandana (TEAMLEAD)
* Approved by -Tarun (Trainer)
* Testing activities carried out with a timeline.

**OVERVIEW:**

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

**IN SCOPE:**

What are the features to be tested?

* We test the login/logout features of the application.
* We test the payment/transaction features of the application.
* We test the text features of the application.
* We test the trading features of the application.
* We test the queries and support features of the application.
* We test the order feature of the application.
* We test the cancel feature of the application.

**OUT SCOPE:**

What are the features not to be tested?

* 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.

# **Test Approach**

**Process of Testing**-

* Test strategy.
* Test Plan.
* Test Design.
* Test Environment.
* Test Execution.
* Test Report.
* Defect Report.
* Test Summary Report.

**Levels of Testing**-Unit Testing, Integration testing , System testing, User Acceptance testing.

**Types of Testing**- Dynamic Testing, Static Testing.

**Testing Approach**- Top-Down Approach

**Roles and Responsibilities-**

| **Name** | **Role** | **Responsibilities** |
| --- | --- | --- |
| Vandana | Test Lead | Scope and Overview |
| Sangili vijay | Test Engineer | Testing Environment Testing Tools |
| Tushar | Test Engineer | Testing Approach |
| Darshana | Test Engineer | Release Control and Risk Analysis |
| Savitha | Test Engineer | Review and Approval |

# **Test Environment**

Which operating system, configuration, version etc

Which are all environments to test the entire project including software and hardware specification.

**Hardware Specification**:

**System**                   **Specification**

               OS                        Windows 10

   Processor             1GHz, intel core i3

   RAM                     4GB

   Hard disk              500GB

**Software Specification:**

 **Web Server**             **Name**

          Browser                    Chrome, Mozilla FireFox ,Safari ,Internet Explorer

The IDTS customers would access the applications using browsers, Expected distribution of browsers that would be used by customers are:

           IE- 45%

           Mozilla-35%

           Netscape-17%

           Eudora-3%

# **TEST TOOLS**

This project needs some tools for test execution.

* For issue tracking tool -Jira
* For test management tool- Zephyr
* For testing the web application -Selenium
* For the Security purpose -Burp suite.
* For Database testing -SQL
* For Application performance interface (API) testing- Postman
* For Defect management tool -Bugasura

# **Release Control**

1. Banca Valla wants to launch this system in 3 months as per the Stakeholders in version 1.0
2. During that even estimates reveal that it would take 5 months to complete this system with all the identified functionality.

* Version 1.0(Will release in 01.10.2022)
* Version 1.1.1(Will release in 15.10.2022)

# **Risk Analysis**

* Security risk
* Network risk

1. Security: If you receive the error message, "Security error: bad record message authentication code (MAC)," while trying to livestream, it means a secure connection could not be established. There are a few possible causes: Incorrect Date / Time: If the date and/or time on your device isn't set properly, it can cause this error.
2. Network: A network error is the error condition that caused a network request to fail. Each network error has a type, which is a string. Each network error has a phase, which describes which phase the error occurred in: dns. the error occurred during DNS resolution

# **Review and Approvals**

* Functionalities are reviewed and signed off by the business team, project management, development team
* Review the features testing is done or not test lead is approved by the documents.
* All these activities are reviewed and signed off by the business team, project management, development team etc.
* Summary of review changes should be traced at the beginning of the document along with approved date, name, and comment
* Testing activities carried out with in timelines by-Savitha, Sangilivijay, Vandana Raheja, Tushar Sharma, Darshana hirlekar