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Aim/Goal/Objective:

To develop a IDTS using database DB, application server APPS and programming platform PROG

Test Assumptions/Test coverage:

Platforms:

The platforms used to test the application are

1.Andriod

2.Web application

Devices:

This IDTS should work fine with these devices once the testing has been done

1.IE

2.Mozilla

3.Netscape

4.Eudora

Principles:

1. **Validation and verification :**

This is done so that system meets the business requirement.

Type of testing:

1. **UAT**

   User acceptance testng is done once the testing is done. In IDTS the UAT is done by the owner (client).

2. **Unit testing**

   Each module/component of the code is tested for IDTS.

3. **Integration testing**

   Every modules are integrated and tested for IDTS.

4. **System testing**

   Whole IDTS is taken as a system and tested so it meets the business requirement.

Data approach:

1. The IDTS is to be developed using database DB, application server APPS and programming platform PROG.
2. To test various things in the IDTS such as log in, log out, transaction, able to send message to the customers.
3. Overall, the IDTS should be able to work properly with end users i.e., users should be able to register, log in ,logout, transactions.
4. This system should also work with the administrator i.e., when administrator use it.

Scope of testing:

Scope of testing used in IDTS involves:

1.**Performance testing**: This testing is done in a virtual production like environment to test the performance of the IDTS. Here the speed, reliability, is tested and how long a page is taking to open in the browser like the login page and payment page.

2.**Security testing**: This testing is done in IDTS in order to abide with internet-based trading as well as derivative trading. Security testing will ensure that the critical inputs are being tested so that in future it does not act as a threat for the users.

3.**Functional testing:** to check the functionalities that they are working properly.

4**.Load testing**: The system is expected to have a maximum concurrent user load of x users. In order to test the load of users load testing is carried out. IDTS is system which is used to provide services for the customer. Hence there will be many users who will use IDTS at a time.

Test Estimation:

It can be launched in 3 months but 5 months are required to launch this with all the identified functionalities .

Test Deliverables:

1.Execution report.

Test Environment:

It is nothing but production like environment.Whole IDTS will be tested in web like environment.

Test Plan

Project - Internet Based IDS

1. Introduction

Customer wants to test an internet based DTS that provides various functionalities to Administrator,manager,users compatible

with the different browsers. This test plan has been created to facilitate communication within team members

2.Scope

The document mainly targets the UI testing and Application testing as per the requirements provided by the client

2.1 Functions to be tested

UI
Application
Functional & Non Functional

2.2 Functions not to be tested

1. Not other than mentioned in section 2.1

3. Quality Objective

To test if the system meets the requirements of the product on various platforms such as IE,Mozilla,Netscape,Endora , testing the

functionalities and performance of the product. and also testing the product to identify any kinds of Bugs or defects.

4. Test Approach

- Understanding the requirements provided by the client using an analytical approach and writing all the test cases based on manual testing and executing the critical features of the application
- based on priority of the test cases. Performing Different types of testing approved in the test strategy
- Performing Different types of testing approved in the test strategy

5. Roles and Responsibilities

- **Test Manager** - 1. Creating the test strategy document
  2. act as primary contact for testing team also responsible for schedule

- **Test Lead** - 1. Creating the test plan document for each version of the application
  2. Coordinating with QA and team
  3. handling responsibility of Any kind of issues within the team
  4. Reporting progress on the work

- **Testers** - 1. Going through Test Documents, Understand the requirements
  2. as per the documentation provided writing and executing the test cases
  3. Reporting and raising defects if any kind of bug is found
  4. Creating Bug Report

6.Entry and Exit Criteria

6.1 Entry Criteria

- All the testing tools should be installed and cofigured
- All the necessary documentation should be available for reviewing through the entire process
- The test environment should be ready and functioning properly
- All the test data should be base lined

6.2 Exit Criteria

- When there is no Bugs or any minor bugs the application can proceed to the production
- the Defect report should be generated before moving on to test closure
- None of the high priority bugs should be left unattended
- Schedule has been achieved

7. Suspension or Resumption Criteria

7.1 Suspension Criteria

- If any serious Defects Are found which must be addressed by the developer team
- If the cost and time provided according to the estimation is exhausted

7.2 Resumption Criteria

- Work can be resumed once the major bugs are fixed.

8. Testing Types

- UI Testing – Includes testing the User interface part of the application according to the customers requirement provided
- Application Testing – testing is carried out in order to check the product in different browsers such as IE,Mozilla,Netscape,Endora.
- Integration Testing – includes testing the functionality of each module together
- System Testing - Conducted on completely integrated system to check the end to end scenarios and if the product's compliance with requirement
- Performance Testing – Includes Testing the optimal time for opening page and operation of application under load as provided in the requirements
- User Acceptance Testing – Includes testing to check if the entire application meets the customer needs and their business requirements. And will be done by the client
- Security Testing – includes testing in order to abide with internet based trading as well as derivative trading
- Functional Testing – To test the functional aspect of the product
- Load Testing – includes testing to check as the system is required to have a maximum concurrent user load of users

9. Test Schedule

- the estimated Time taken is 5 months to complete this system with all the identified functionality

Task Name	Start	Finish
Review and understanding requirement	02.11	03.11
Test Planning	04.11	06.11
Setting up Test Resources	07.11	09.11
Writing Test cases	10.11	12.11
Executing critical Test cases	13.11	16.11
Integration Testing	17.11	19.11
Functional Testing	20.11	25.11
Any Other Testing	02.12	10.12
Final Defect Testing and Producing Bug reports	11.12	18.12
Deployment	19.12	25.12
Performance Testing	26.12	01.01
Release to production	02.01	05.01

10. Resource and Environment needs

Test Automation Tools

- Functional Testing - Selenium
- Performance Testing - Jmeter
- System Testing – Selenium
- UI Testing – iMacros
- UAT – Zehyr Jira
- Defect management - Bugasura

Test Environment

- IE
- Mozilla
- Netscape
- Endora.

11. Test Deliverables

- Test Execution Report
- Defect Report
- Source code
- Test case for UAT