**TEST STRATEGY**

**Project Name**

**Internet-based DTS**

**Version 1.0**

**Date:-23-08-2022**.

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8. **Scope and Overview:-**

**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.

**Functions to be tested:-**

* Checking the Administrator’s and customers’ Registration features.
* Checking the login and logout features.
* Checking the transaction features.
* Checking the trading features
* Checking the features of the message

**Functions to be not tested:-**

Security and performance of the application.

1. **Test Approach:-**

The different approaches to test strategy that are employed are-

1. **Analytical approach** – This approach is based on risk analysis based on the project’s

requirements and different stakeholders’ input. Based on this risk analysis, a test strategy is

developed to plan, design, and prioritize the testing efforts.

2. **Model-based approach** – This approach uses various agile models for developing a test

strategy.

3. **Consultative approach** – In this approach, a test strategy is developed based on consultation

with technology or domain experts.

4. **Methodical approach** – This approach is simply based on using a pre-defined set of testing

approaches that may relate to a particular type of application testing.

5. **Dynamic or Heuristic approach** – based on exploratory techniques instead of pre-planned ones.

6. **Standard-compliant approach** – With this approach the test strategy is prepared based on

the industry standards and processes.

**Roles and Responsibilities**

Sivanesh-administrator registration feature

Srinath-customer registration feature

Dipak-login and logout feature

Vashi-add to cart feature

Madhavi-transaction feature

Indu-profit features

Suresh-trading feature

1. **Test Environment:-**

The following detail the environmental and infrastructure needs required for the testing of IDTS. Test Items and execution of Regression Testing.

**Software Configuration:-**

o The IDTS customers would access the application using browsers. The expected distribution of browsers that would be used by customers are :

o IE – 45 %

o Mozilla – 35 %

o Netscape – 17 %

o Eudora – 3 %

**Hardware Configuration:-**

The IDTS is to be developed using database DB, application server APPS, and programming platform PROG.

Hard Disk:-500Gb

Ram:-6GB

Operating System:- Windows10.

The system should interface on a real-time basis with the DTS of NSE to place orders and obtain details of their execution status.

1. **Testing Tools:-**
   * Automation and Test management tools are needed for test execution. (JIRA).
   * As we need to do
   * Databasese testing (Orion)
   * Data loading testing ( Jmeter)
   * Databasese migration testing (azure document DB)
   * Testing for various triggers
   * Test management tools
   * Test data preparation tools for analysis and design and data generation
   * Configuration management tool for the implementation of execution and tracking changes
   * Static analysis tool for static testing

**5. Release Control:-**

1. In the Project The stack holders need Banca Valla Wants to launch this system in 3 months.
2. Meanwhile the project even though the estimates reveal that it would take 5 months to complete this system with all the identified functionality.
3. **Risk analysis:-**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Risk** | **Mitigation Strategy** | **Impact** |
| 1 | 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 the Release Scope of Resources to allow the test activities to be performed. | High |
| 2 | 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 |
| 3 | 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 ensure they are available at critical points or contactable during the project activities. | Medium |
| 4 | 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 |
| 5 | 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 |

**7.Review & Approval:-**

The following people are required to approve the Test Strategy:-

|  |  |
| --- | --- |
| **Approval By** | **Approval** |
| Test Manager | Tarun |
| The Test Department Manager | Tarun |
| Product Owner | Tarun |
| Development Manager | Tarun |
| Project Manager | Tarun |