***iDiksha***

***TEST PLAN***

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**1 OVERVIEW**

* 1. **Purpose**

Purpose of Test plan is to define the various Testing strategies used for complete Testing life cycle of this project.

**1.2 SCOPE**

This Test Plan will cover the following testing activities as identified in the testing strategy:

* GUI testing
* Functional testing
* System testing
* Regression testing
* Compatibility testing
* Security testing
* User Acceptance testing

**2 TEST ITEMS**

The items below identify the test items- software, hardware and supporting product elements that have been identified and excluded as targets for testing.

The purpose of the test for the iDiksha is to eliminate any problem before the application change goes to production.

**2.1 GUI Testing**

**2.1.1 Overview**

GUI testing will includes testing the UI part. It covers look and feel, error messages, spelling mistakes, GUI guideline violations.

**2.1.2 Items tested**

* Review of all the pages for font size, color, banners and logo
* Verification of alignment
* Verify look and feel

**2.2 Functional Testing**

**2.2.1 Overview**

Functional testing confirms that all the functionality of the application is working. The functional testing is conducted by the testing team.

**2.2.2 Items tested**

* Verify Refer a friend use case
* Verify List your institute use case
* Verify Contact us use case
* Verify all the menu items
* Verify Search Bar
* Verify institute listing page
* Verify all the email notifications

**2.3 System testing**

**2.3.1 Overview**

System testing of software is testing conducted on a complete, integrated system to evaluate the systems compliance with its specified requirement. System testing falls within the scope of black-box testing, and as such, should require no knowledge of the inner design of the code or logic.

**2.3.2 Items tested**

The same items as listed under functional testing and complete system end to end testing.

**2.4 Regression testing**

**2.4.1 Overview**

The purpose of the regression testing is to confirm that a recent program or code change has not adversely affected existing features. This testing is done to make sure that new code changes should not have side effects on the existing functionalities.

**2.4.2 Items tested**

The same items as listed under functional testing

**2.5 Compatibility testing**

**2.5.1 Overview**

Compatibility testing is a non-functional testing conducted on the application to evaluate the application’s compatibility within different environments.

**2.5.2 Items tested**

The application needs to be tested for the following compatibility testing types:

1. Browser: It Checks compatibility of the website with different browsers like Firefox, Google chrome, Internet Explorer etc.
2. Devices: Checking the software is compatible with different devices like mobile, tablets etc and different platforms like android, iOS etc.

**2.6 Security Testing**

**2.6.1 Overview**

Security testing involves the test to identify any flaws and gaps from a security point of view.

**2.6.2 Items tested**

All the modules in an application

**2.7 Use Acceptance Testing**

**2.7.1 Overview**

The purpose of user acceptance testing (UAT) is to simulate the business environment and emphasize security, documentation, and regression tests.

UAT shall be conducted to gain acceptance of all functionality from the user community. UAT shall verify that the system meets user requirements as specified.

**2.7.2 Items tested**

The same items as listed under Functional test.

**3 Test Execution Procedures**

**3.1 GUI Testing**

**3.1.1 GUI Test Entry Criteria**

The Criteria that determine when GUI testing can begin include the following:

* Completed Design of pages

**3.1.2 GUI Test Exit Criteria**

The criteria that determine when the GUI testing is complete include the following:

* Matches the design, color, alignment with the design document
* No spelling or grammatical mistakes found
* Look and feel is good

**3.2 Functional Testing**

**3.2.1 Functional Test Entry Criteria**

The Criteria that determine when functional testing can begin include the following:

* Completed Functionalities of application
* Able to launch the application in tester’s machine

**3.2.2 Functional Test Exit Criteria**

The criteria that determine when the functional testing is complete include the following:

* No severe issues of any functionality. To be reviewed with project manager for acceptable resolution.

**3.3 System Testing**

**3.3.1 System Test Entry Criteria**

Thecriteria that determine when the system testing can begin include the following:

* All the modules of the system should be developed
* Application should be the latest release

**3.3.2 System Test Exit Criteria**

The criteria that determine when the system testing is complete include the following:

* No severe issues of any module.
* All the test cases should be covered

**3.4 Regression Test**

**3.4.1 Regression Test Entry Criteria**

The Criteria that determine when regression testing can begin include the following:

* Application should be loaded with no hang ups or crashes
* Application should be the latest release

**3.4.2 Regression Test Exit Criteria**

The criteria that determine when the regression testing is complete include the following:

* High severity and priority bugs are fixed and fix is verified.
* No open issues exist

**3.5 Compatibility Testing**

**3.5.1 Compatibility Test Entry Criteria**

The criteria that determine when the compatibility testing can begin include the following:

* Different types of browsers has to be installed in a testing system
* Devices like tablets and mobile phones are required

**3.5.2 Compatibility Test Exit Criteria**

Thecriteria that determine when the compatibility testing is complete include the following:

* All the compatibility test cases has to be completed

**3.6 Security testing**

**3.6.1 Security Test Entry Criteria**

The criteria that determine when the security testing can begin include the following:

* All the modules in a n application has to be integrated and complete application has to be developed

**3.6.2 Security Test Exit Criteria**

The criteria that determine when the security testing is complete include the following:

* All the security test cases has to be completed

**3.7 User Acceptance Test**

**3.7.1 User Acceptance Test Entry Criteria**

The Criteria that determine when user acceptance testing can begin include the following:

* No critical or major severity issues remaining from regression testing
* Correct version of application is moved to user acceptance testing environment

**3.7.2 User Acceptance Test Exit Criteria**

The criteria that determine when the user acceptance testing is complete include the following:

* No open critical, major or average severity issues unless the issue is determined to be low impact, low risk.

**4 Test Deliverables**

The deliverables for all testing phases is the completed test cases. Once the document have been completed, the application can be moved to production use.

**5 Test Environment**

Browsers: Internet Explorer, Google chrome, Firefox

URL: https://www.idiksha.com

Machine: Windows or Linux

Others: Cell Phones and Tablets for responsive website testing