

# Liferay Test Plan

Author	Date	Version	Description
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## 1. Objectives

This document describes the test plan for the Liferay company Form System. This Support Test Plan document includes the following objectives:

- Identify existing project information and the software to be tested.
- List the recommended test requirements (high level).
- Identify required resources
- Recommend and describe the testing strategies to be employed.

### 1.1 Scope

This Test Plan describes the functional and interface tests that will be conducted on the system. Assume that all unit tests have already been performed. The features that will be tested are:

- Form submission

The WEB platforms where the tests will be tested are:

- Mozilla Firefox
- Google Chrome
- Internet Explore

### 1.2 Responsibilities

Function	Name	Responsibilities
Test Manager	Paloma Nunes	<ul style="list-style-type: none"><li>• Provide technical direction</li></ul>
Test Designer	Elton Araujo	<ul style="list-style-type: none"><li>• Generate test plan</li><li>• Generate Test Suit</li></ul>
System Test	Elton Araujo	<ul style="list-style-type: none"><li>• Implement tests</li><li>• Run tests</li><li>• Record results</li><li>• Document defects</li></ul>

## **2. Test Requirements**

The following list identifies the items (use cases, functional requirements, non-functional requirements) that have been identified as targets for testing. This list represents what will be tested.

Function test:

- Submission of the form will be allowed when all data is filled.

Interface test:

- The form page must contain the "party rock" text.
- A success message should appear after the form is submitted.

Tests not applicable:

- Integration test
- Performance tests
- Load and stress tests
- Stability test
- Regression test
- Security testing

## **3. Test Strategy**

The Test Strategy presents the recommended approach for testing software applications. The previous section of the Test Requirements described what will be tested; this describes how it will be tested.

### **Test Level**

- System Test

### **3.1 Automated Test**

The email with system details was used to collect the requirements on which the test cases are based. The test suite will create using the orthogonal matrix method.

#### **3.1.1 Assumption:**

- The name field should not contain only numbers or special characters.
- The Why field should not contain only numbers or special characters.
- The Birthday field should not contain a future date.
- The Birthday field should not contain a nineteenth-century date or less.

### 3.1.2 Test Types:

#### Function Test

Application testing should focus on any target requirements that can be traced directly to use cases (or business functions) and business rules. The goal is to verify the system (and its internal processes) by interacting with the application through the GUI and analyzing the output(results). The following is an outline of the recommended test:

Test Objective

Technique:

Ensure that the form will be sent correctly

- Run each use case, use case flow or function, using valid and invalid data, to verify the following:
- The expected results will occur when valid data is used.
- The appropriate error/warning messages are displayed when invalid data is used.
- Each business rule will be properly applied.

Conclusion Criteria:

- All planned tests were performed.
- All defects found were recorded.

#### Interface Test

The interface test aims to verify that the GUI components are in accordance with the requirements.

Test Objective

Technique:

Conclusion Criteria:

- Check that all elements are available on the screen as required.
- Insert verification of interface elements in functional tests.

### 3.2 Manual Test

Exploratory testing will be used as a strategy for manual testing. The tester must perform tests that are not present in this plan. Tests must be carried out on all required platforms. If a test fails, it must be documented and its failure recorded.

#### 4. Tools

The following tools are used for testing the system

	Tool	Version
Test Design	<ul style="list-style-type: none"><li>• Cucumber</li></ul>	<ul style="list-style-type: none"><li>• 3 or newer</li></ul>
Functional test	<ul style="list-style-type: none"><li>• Eclipse</li><li>• Java</li><li>• Selenium Web Driver</li><li>• Junit</li></ul>	<ul style="list-style-type: none"><li>• 4.14 or newer</li><li>• 8</li><li>• 3.7 or newer</li><li>• 4.12 or newer</li></ul>
Bug Report	<ul style="list-style-type: none"><li>• LibreOffice Writer</li></ul>	

#### 5. Tests cases

##### Scenario 1: Submit form with all fields filled correctly

Given user is on page

And party rock text is visible

When name field filled in by the user with only letters

And why test field filled in by the user with only letters

And birthday field filled in by the user with valid date

And press submit button

Then success message is displayed

##### Scenario 2: Submit form with all fields filled incorrectly

Given user is on page

And party rock text is visible

When name field filled in by the user with only numbers or special characters

And why field filled in by the user with only numbers or special characters

And birthday field filled in by the user with invalid date

And press submit button

Then Required field message is displayed to birthday field

And Required field message is displayed to name field

And Required field message is displayed to why field

### **Scenario 3: Submit form without fields filled**

Given user is on page

And party rock text is visible

When press submit button

Then Required field message is displayed to birthday field

And Required field message is displayed to name field

And Required field message is displayed to why field

### **Scenario 4: Submit form with data field in nineteen century**

Given user is on page

And party rock text is visible

When name field filled in by the user with only special characters

And why field filled in by the user with only special characters

And birthday field filled in by the user with nineteenth century date

And press submit button

Then Required field message is displayed to birthday field

And Required field message is displayed to name field

And Required field message is displayed to why field

## **6. Report Bug**

The bug report will be performed using the LibreOffice Write tool. In which it must contain all errors found through automated scripts and manual tests. Lastly, it will be sent to the test manager. The document must contain:

- Defect ID
- Reporter Name
- Defect Reported Date
- Who Detected
- How Detected
- Project Name
- Release/Build Version
- Defect/Enhancement
- Environment
- Status

- Description
- Steps to reproduce
- URL
- Expected Result
- Actual Result
- Defect Close Date