Links – registration page

Quality Assurance test plan

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| Version | Date | Author | Description of Change |
| 1.0 | 27.07.2022 | Stjepan Vuletic | Initial version of test plan |
|  |  |  |  |

**Reference Documents**

|  |  |  |
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# INTRODUCTION

## Purpose

This test plan describes the testing approach of Links registration form and provides a basis of strategies and activities performed during the testing of mentioned app. Specifically, this plan documents the following:

* Test Strategy: provides basic rules the test will be based on, including the objectives, assumptions, and principles. Defines scope of testing and describes levels of testing which will be performed
* Execution Strategy: describes how the test will be performed and process to identify and report defects, and to fix and implement fixes.

## Project Overview

Links is an IT equipment store that has been operating for over 15 years. In addition to the sale of IT equipment, store sells electronics and wide range of other products. To make life easier to both the store and the customers, Links created their own web shop. One can register on their web shop in order to get various types of discounts and to be informed about new products.

# OBJECTIVES

## Objectives

The functional test of the Links registration form should validate from both the requirements perspective and business perspective that:

• Data can be entered for all input fields

• All mandatory fields must be entered

• Data from dropdowns can be selected successfully

• Data entered for everyfield complies with all format requirements (Email adress, OIB....)

• Users can registrate as natural or legal person

• The system is easy to use by the end-users

• User registration is supported by the system

• All financial calculations are correct

The objective of functional testing is to validate the user registration within the whole system. At the conclusion of testing, the project team and the test team will have a high level of confidence that the system will work according to user requirements and will meet business needs.

## Primary Objectives

A primary objective of testing is to: assure that the system meets the full requirements, including quality requirements (functional and non-functional requirements) and fit metrics for each quality requirement and satisfies the use case scenarios and maintain the quality of the product. At the end of the project development cycle, the user should find that the project has met or exceeded all of their expectations as detailed in the requirements.

Any changes, additions, or deletions to the requirements document, Functional Specification, or design specification will be documented and tested at the highest level of quality allowed within the remaining time of the project and within the ability of the test team.

## Secondary Objectives

The secondary objectives of testing will be to: identify and expose all issues and associated risks, communicate all known issues to the project team, and ensure that all issues are addressed in an appropriate matter before release. As an objective, this requires careful and methodical testing of the application to first ensure all areas of the system are scrutinized and, consequently, all issues (bugs) found are dealt with appropriately.

# SCOPE

The primary purpose of testing is to validate the software meets the defined requirements for each software item. The document mainly targets the UI testing of Links registration form and validating all functionalities are working as expected.

## Features to be tested

* All input fields in registration form
* All checkboxes and dropdown fields in registration form
* All buttons in registration form
* Entered data format
* Length of characters entered
* Error messages
* Statuses of requests sent to the server
* Console errors
* Error caused by responsive mode

## Features not to be tested

* Utility navigation bar functions
* Functionalities and options in page header
* Links to other products
* Functionalities and options in page footer

# **TESTING STRATEGY**

**Understanding Requirements:**

* Understanding of requirements will be done by QA

**Preparing Test Cases:**

* QA will be preparing test cases based on the exploratory testing. This will cover all scenarios for requirements

**Reviewing test cases:**

* Peer review will be conducted for test cases by QA Lead
* Any comments or suggestions on test cases and test coverage will be provided by reviewer respective
* Author of Test CaseSuggestions or improvements will be re-worked by author

**Creating Test Data:**

* Test data will be created by respective QA on client's developments/test site based on scenarios and Test cases

**Executing Test Cases:**

* Test cases will be executed by respective QA on client's development/test site based on designed scenarios, test cases and Test data.
* Test result (Actual Result, Pass/Fail) will be updated in test case document Defect Logging and Reporting
* QA will be logging the defect/bugs in Word document, found during execution of test cases. After this, QA will inform respective developer about the defect/bug

## Testing types

**GUI Testing:**

* GUI testing will includes testing the UI part of report. It covers users Report format, look and feel, error messages, spelling mistakes, GUI guideline violations.

**Functional Testing:**

* Functional testing is carried out to find out unexpected behavior of the report. The characteristics of functional testing are to provide correctness, reliability, testability, and accuracy of the report output/data.

**Automated Testing:**

* Whenever possible, testing should be automated to ensure the consistency and efficiency of software testing. The approach for automated testing is to ensure that the existing automated test suite is accurate with the current build or release. It's time and resource saving tecnhique which is often used for regression testing. Test scripts will be provided along with test plan.
* Test cases which will be automated:
  + Register legal entity user profile
  + Register natural person user profile
  + Validate every error message
  + Validate email address (Script will be provided, but won't work since mailcatching application loses it's data after some time)

## environment requirements

Testers are required to make sure they have current software on the computers being used to test with and the latest database build available (when needed). An Installation Guide (if available) provides specific information about the software setup required for testing.  
Testing of Links registration form will be performed on Production environment. [Link](https://www.links.hr/hr/register) is used to access Links registration page.

## Item Pass/Fail criteria

Deviations or errors will be documented and reported using a Excel file and noted in the test results. Testers will mark the status of a completed test within Excel file as follows:

• “Pass” is assigned if the testing effort demonstrates correct adherence to the expected result.

• “Fail” is assigned if the testing effort demonstrates a variance from the expected result that is deemed unacceptable.

• “WIP” is when the test case is under execution (not very often will this status be used but if the test will take some time a tester may use this status)

• “Blocked” may be assigned if there is something keeping the tester from running the test.

• “Unexecuted” may be assigned by the test lead should it be deemed necessary that only portions of the software need to be tested. Additionally this is the default status when a test case is scheduled but not yet executed.

# ENTRY AND EXIT CRITERIA

## Entry Criteria

* All test hardware platforms must have been successfully installed, configured, and functioning properly
* All the necessary documentation, design, and requirements information should be available that will allow testers to operate the system and judge the correct behavior
* All the standard software tools including the testing tools must have been successfully installed and functioning properly
* Proper test data is available
* The test environment should be ready
* QA resources have completely understood the requirements
* QA resources have sound knowledge of functionality
* Reviewed test scenarios, test cases

## Exit Criteria

* A certain level of requirements coverage has been achieved.
* No high priority or severe bugs are left outstanding.
* All high-risk areas have been fully tested, with only minor residual risks left outstanding.
* Cost – when the budget has been spent.
* The schedule has been achieved

# CONTROL PROCEDURES

## Problem Reporting

Document the procedures to follow when an incident is encountered during the testing process. If a standard form is going to be used, attach a blank copy as an "Appendix" to the Test Plan. In the event you are using an automated incident logging system, write those procedures in this section.

## Reviews

Reviews will be done on following documents and review report will be prepare for each work products:

* Test cases
* Bug Report sheet
* Test automation scripts

## **Change request**

Change request document the process of modifications to the software. It Identifies who will sign off on the changes and what would be the criteria for including the changes to the current product.

Change request for report will be handled using following process:   
• Understanding the change request and its impact on exiting report functionality   
• If the change is major, test cases will be updated   
• If the change is minor, test cases will may not be updated   
• Retesting and regression testing will be done as per changed request

## **Defect Reporting**

Bugs found during static and dynamic testing will be logged in Excel file.

# ROLES AND RESPONSIBILITIES

|  |  |  |
| --- | --- | --- |
| **Role** | **Responsibilities** | |
| **Project Manager** | 1. Acts as a primary contact for development and QA team | |
|  | 2. | Responsible for Project schedule and the overall |
|  | success of the project. | |
| **QA Lead** | 1. Participation in the project plan creation/update process. | |
|  | 2.Planning and organization of test process for the release. | |
|  | 3.Coordinate with QA analysts/engineers on any | |
|  | issues/problems encountered during testing. | |
|  | 4.Report progress on work assignments to the PM | |
| **QA** | 1. Understand requirements | |
|  | 2. | Writing and executing Test cases |
|  | 3. | Updating test cases |
|  | 4. | Reviewing Test cases |
|  | 5. | Defect reporting and tracking |
|  | 6. | Retesting and regression testing |
|  | 7. | Bug Review meeting |
|  | 8. | Preparation of Test Data |
|  | 9. | Coordinate with QA Lead for any issues or problems |
|  | encountered during test preparation/execution handling | |

# RISKS

Any software that has been identified as having a high risk “software risk” category will be required to document any high risk assumption for testing that could directly impact the quality of the software or testing activities. Potential risks are noted below:

* testing is performed on Production environment
* automated scripts could interfere with real users
* access to the site could be blocked due to suspicious activities (creating user profiles with random data)

# TOOLS

|  |  |
| --- | --- |
| **Process** | **Tool** |
| Test case creation | Microsoft Excel |
| Test case tracking | Microsoft Excel |
| Test case execution | Manual, Automated: Selenium |
| Test case management | Microsoft Excel |
| Defect tracking: | Microsoft Excel |
| Web browser: | Chrome |

# BUG SEVERITY AND PRIORITY

Bug Severity and Priority fields are both very important for categorizing bugs and prioritizing if and when the bugs will be fixed. Severity is defined by the impact on the application’s functionality. On the other hand, Priority is defined by the impact of business. Priority field would be used in bug report sheet as it’s used in Jira which is one of the most popular bug and issue tracking platform. Priority levels are described below:

1. Minor - Minor problem or easily worked around

2. Standard - Has the potential to affect progress

3. Major - Serious problem that could block progress

4. Blocker - The problem will block progress

# ACRONYMS

QA – Quality Assurance

PM – Project Manager

GUI – Graphical User Interface