Test Plan

Project FORMY

Fernando Garzon
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Summary

Summary……2
Objective …… 3
Scope …… 3
Inclusions ……... 3
Test Environments …… 4
Defect Reporting Procedure ……4
Steps for Report Writing …….. 4
Prioritization of Defects …… 5
Tools and Systems ……... 5
Team Distribution ……... 5
Communication …… 5

Objective

This test plan aims to ensure that everything is working correctly, the application meets all its functional requirements and exceeds in performance.

Scope

The following area will be included in this test plan:

- Complete Registration Web Form Module

The tests will focus on exploring some user possible interactions and exceptions caused in case of those interactions involving wrong interpretation from the user side about the application functionalities.

The test is considered successful when the application is capable of rejecting any interactions involving wrong interpretation while still being able to achieve its objective, meets all its functional requirements on an end to end scenario, while capable of achieving good user satisfaction ratings.

The test will check the performance on different browsers to ensure compatibility. All the tests will be automated, considering both exploratory approaches and defined user stories for end to end scenarios.
The automation scripts will be made using the Robot Framework on top of the Python programming language and the Selenium and Pabot libraries.
The test runs versioning and reports will be assisted by a local Jenkins server.

Inclusions

The following items are included in this test plan:

- Test Strategy Document
- Test Cases Document
- Test Execution Report
- Defect Report
- Performance Test Report

Test Environments

The following test environment will be used:

- Production Environment

Role	Environment URL
Production	https://formy-project.herokuapp.com/form

The following interface applications will be used:

- Windows 10
    - Chrome
    - Firefox
    - Edge

No specific hardware or screen size are needed.
Requires a stable network connection for all the tests that doesn’t consider performance as an success indicator.

Defect Reporting Procedure

A defect will be found every time an interaction produces wrong output, affects user experience, deviates from the project's requirements or causes technical errors.

Steps for Report Writing

The report should contain a short summary following an PAL (Problem, Action, Location) format for quick visualization and understanding, including a description of what is the defect, which interaction caused it, on which module and field it happened, a description of the environment (ex. Browser used, special conditions set, like slow bandwidth connection etc.), and screenshots of the moment the defect was found.

Prioritization of Defects

The priority levels will be assigned as following:

- High
    - Affects the user data integrity
    - Blocks user interaction
    - Affects the application's services disponibility
    - Present Deviation from the requirements
- Medium
    - Changes the application layout
    - Missing dynamic content/Dynamic content not being loaded
- Low
    - Exposed hard-coded strings
    - Misaligned items
    - Wrong text that doesn't affect understanding about the features

Tools and Systems

The tools that will be used for tracking and managing the defects are:

- JIRA
- Jenkins

Team Distribution

- Developers
    - Responsible for debugging the application based on the priority levels and the description provided during the defect reporting.
- Test Leads
    - Responsible for triaging the defects reports, to guarantee a correct severity and priority assignment.
    - Guarantee that the team has all that it needs to test all requirements for that sprint.
- Testers
    - Run the tests, analyze its results, analyze possible causes for the defect and build the defect report based on this.
    - Make adjustments to the test when necessary to guarantee that it is 100% valid.

Communication

The communication with the stakeholders will be made daily to ensure that the results are matching expectations.