Test Plan

Serverest

Aracelli Novaes da Palma

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| --- | --- |
| General information | |
| Customer | ServeRest |
| Create by | Aracelli Novaes da Palma |
| Version | 1.0 |
| Status | Completed |

Summary

[Introduction 1](#_Toc183093579)

[Scope of project 2](#_Toc183093580)

[Test Plan and Strategy 3](#_Toc183093581)

[Resources 5](#_Toc183093582)

[Testing Process Risks 6](#_Toc183093583)

[Deliverables 7](#_Toc183093584)

Introduction

General Information

This document describes the methods and procedures that will be used by the QA in the functional testing process of the web application ServeRest. It includes the objectives, test responsibilities, entry and exit criteria, scope and approach.

Purpose

* Identify existing project information and software components to be tested.
* Recommendation and description of the testing strategies to be employed.
* Identify required resources.
* List the test project deliverable elements.

Scope of project

**Scope of Admin Part**

The Admin part testing includes the follow functionalities:

1. Login;
2. Validate HomePage;
3. Create user;
4. List user;
5. Create products;
6. List products.

**Scope of Customer part**  
The Customer part testing includes the following functionalities:

1. Login;
2. View the product list;
3. Search for a product;
4. View product page
5. Add product to the shopping list;
6. View shopping list.

**Scope of API testing**  
The API testing includes the following functionalities:

1. Login;
2. Create user;
3. List user;
4. Create products;
5. List products.

Test Plan and Strategy

Test procedure

The main testing types that should be executed:

* Exploratory Testing;
* Functional Testing;
* API Testing.

Exploratory testing

* **Purpose**: Identify system functionalities and major defects.
* **Scope**:
* Admin routine: Create profile, login, add users, list users, add products, list products, logout.
* Customer routine: Create profile, login, access product page, add product to shop list, logout.
* **Method:** Manual Testing.

Functional testing

* **Purpose**: Test main system funtionalities.
* **Scope**:
* Admin routine:

|  |  |
| --- | --- |
| Functionality | Test Scenarios |
| Login | Valid login |
| Invalid login |
| Home Page | Visual validation |
| Create Users | Required form fields |
| Add new user |
| Create new user |
| Create Products | Required form fields |
| Create new product |
| Logout | Logout system. |

* Customer routine:

|  |  |
| --- | --- |
| Functionality | Test Scenarios |
| Login | Valid login |
| Home Page | Visual validation |
| Search products |
| Product Page | Data validation |
| Add product to shop list |
| Shop List | Empty list |
| Product in list |
| Edit product in list |
| Logout | Logout system. |

* **Method:** Automated Testing.

API testing

* **Purpose**: Ensure that the API endpoints work as expected, providing the correct outputs for given inputs.
* **Scope**: Create profile, login, add users, list users, add products, list products.
* **Method:** API Testing.

Bugs report

All bugs found during testing must be logged in the task management platform and categorized according to their severity. The categories are:

|  |  |
| --- | --- |
| Severity | Impact |
| Critical | Critical enough to crash the system, cause file corruption, or cause potential data loss. |
| High | It causes a lack of vital program functionality with workaround. |
| Medium | It degrades the quality of the System, but there is na intelligent workaround for achieving the desired functionality |
| Low | Insufficient or unclear error message, which has minimum impact on product use. |
| Cosmetic | Logout system. |

Resources

Tools

The following tools were used for this project:

|  |  |
| --- | --- |
| Process | Tool |
| Tasks Management | Jira |
| Test Automation | Cypress |
| API Testing | Postman |
| Defect Tracking | Jira |

Browsers

|  |  |
| --- | --- |
| Browser | Version |
| Chrome | Latest |

Testing Process Risks

The next issues may influence testing works:

* Changes and modifications of the software product that were not planned and discussed with the test team beforehand;
* Changes in the software requirements that were not discussed with the test team beforehand.

Deliverables

* Test Plan;
* Automated Test;
* Bugs report.