**Test Plan**

**Mini Project Quality Engineer A**

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**Test Plan**

# **Introduction**

Is a document used to describe in detail how the test will be carried out. It gives the information, the approach, the complete plan of testing. It is the basis for software testing. The system that will be tested is the web UI, API, and mobile application of AltaShop. Test plan describes important information about the test project, any resources that will be used on testing, any features that will be tested, etc.

## 1.1 Purpose

The purpose of this test plan document is to :

1. Do a test on the application http://alta-shop.vercel.app/
2. Define the type of testing that will be applied to the test.
3. Determine the tools to be used for testing.

## 1.2 Background

Testing needs to be done to ensure that a software or system being tested is in accordance with the requirements made. In addition, testing is also carried out to identify possible bugs that appear in the system created. To perform the test, a test plan document is needed. This test plan is made as a reference in conducting tests so that the expected goals and results can be achieved.

## 1.3 Scope

This document contains testing of the AltaShop web system. The scope to be tested includes testing the functionality, manually, user interface, and automation of each feature on the web such as authorized user (register, login, logout), homepage (add product), cart, pay, and transaction. For mobile app, the scope to be tested is using testing that is the same as web UI, just the feature on mobile that will be tested is auth, and homepage.

The scope to be tested includes testing manually and automation for API on API url form <https://alta-shop.vercel.app/>

# **Requirement for Test**

Requirements for this test include :

For Web UI the system being tested, which is AltaShop. For API the API URL being tested, which is <https://alta-shop.vercel.app/>. Mobile app is alta-online-shop.apk.

Tools that are used for testing such as :

1. Katalon Studio for automation testing for all software.
2. Google Docs for document test and report.
3. Microsoft Excel for test documentation.

Both tools are used for all systems that will be tested.

# **Test Strategy**

## 3.1 Test Types

### 3.1.1 Web UI

1. Manual Testing

|  |  |
| --- | --- |
| Test Objective | Ensures whether the application is working manually, as expected or not and to identify bugs, ensure the product is error-free. |
| Technique | Analyze system.  Create a document test plan.  Create scenarios  Create test case  Finding bugs and errors and fixed it |
| Completion Criteria | Verify requirement.  Verify the result are same as expected |

1. Automation Testing

|  |  |
| --- | --- |
| Test Objective | to automate repetitive tests which are difficult to perform manually. and can run test cases repeatedly. |
| Technique | Get the object  Create test cases  Run test suite  Check the result and make a report. |
| Completion Criteria | Verify every object that is to be used. Verify the results are the same as expected. |

### 3.1.2 API

1. Manual Testing

|  |  |
| --- | --- |
| Test Objective | Ensure the functionality of all endpoint, request, and response data. |
| Technique | Test endpoint and request url with various conditions. |
| Completion Criteria | Verify response data.  Verify the result are same as expected |

1. Automation Testing

|  |  |
| --- | --- |
| Test Objective | To automate repetitive tests which are difficult to perform manually. and can run test cases repeatedly. |
| Technique | Get endpoint  Set method  Create request body and test cases  Run test suite  Check the result and make a report. |
| Completion Criteria | Verify every endpoint and method request body that is to be used.  Verify the results are the same as expected. |

### 3.1.3 Web UI

1. Manual Testing

|  |  |
| --- | --- |
| Test Objective | Manual Testing or manual testing is a step to look for defects or bugs in software programs, in this method the tester / tester has an important role as the end user to check all application features are working properly. |
| Technique | Analyze system.  Create a document test plan.  Create scenarios  Create test case  Finding bugs and errors and fixed it |
| Completion Criteria | Verify requirement.  Verify the result are same as expected |

1. Automation Testing

|  |  |
| --- | --- |
| Test Objective | Automation Testing Depends on pre-scripted tests that run automatically, its function is to compare expected results with actual results. |
| Technique | Get the object  Create test cases  Run test suite  Check the result and make a report. |
| Completion Criteria | Verify every object that is to be used. Verify the results are the same as expected. |

## 3.2 Tools

|  |  |  |  |
| --- | --- | --- | --- |
|  | Tool | Vendor | Version |
| Web UI, Mobile and API Testing Tools | Katalon Studio | Katalon | 8.3.0 |
| Test Case Document | Microsoft Excel | Microsoft | 2019 |
| Mobile Test Emulator | Vysor | Vysor | 4.1.77 |
| Test Plan and Report | Google Docs | Google Docs | 2019 |

# **Resources**

## 4.1 System

The following is a list of equipment requirements from the implementation of the test.

|  |  |
| --- | --- |
| System Resources | |
| Resource | Name/Type |
| Web UI  API  Mobile App |  |
| PC  Processor  RAM  Operation System | Windows 11 Home Single Language  Intel(R) Core(TM) i5-10210U CPU @ 1.60GHz 2.11 GHz  4 GB  Windows 11 |
| Software Test | Katalon Studio  Microsoft Excel  Vysor |

# **Project Milestones**

|  |  |  |  |
| --- | --- | --- | --- |
| No | Milestone Task | Start date | End date |
| 1. | Plan Test | 26/10/2022 | 08/11/2022 |
| 2. | Design Test | 26/10/2022 | 08/11/2022 |
| 3. | Implement Test | 26/10/2022 | 08/11/2022 |
| 4. | Execute Test | 26/10/2022 | 08/11/2022 |
| 5. | Report Test |  |  |

## **Deliverables**

The deliverable of the tests that have been carried out is in the form of a list of test results documentation. As :

1. Document test plan.

That is a document created using Microsoft Word that contains a plan on how the testing will be carried out and the requirements and types of tests that will be implemented.

1. Document matrix

Contains information about the modules that will be tested on each system complete with what features are in each module. This document will make it easier to create test scenarios that will be made.

1. Document Test Scenario.

Is a document that contains information about what test scenarios will be run complete with test cases, test data, and expected results.

1. Report

Contains an overall report related to the results of tests that have been carried out on each system.

**Appendix A: Project Tasks**

|  |  |
| --- | --- |
| 1. | Plan Test |
| 2. | Identify Requirements for Test |
| 3. | Design Test |
| 5. | Identify and Describe Test Cases |
| 6. | Implement Test |
| 7. | Record or Program Test Scripts |
| 8. | Execute Test |
| 9. | Evaluate Execution of Test |
| 10. | Report Test |