Test Plan

Alterra Academy Batch 3

**Capstone**

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**Test Plan**

1. **Introduction**

This document will describe in detail how the test will be carried out. And gives information, the approach, the complete plan of testing. The testing will be proces the web UI, API, and mobile application of Charum. Test plan describes important information about the test project, any resources that will be used on testing, any features that will be tested, etc. This testing for evaluating and verifying that Charum software supposed to do. The benefits of this testing include preventing bugs, reducing development costs and improving performance

* 1. Purpose

The purpose of this test plan document is to :

* Identification feature used by software to tested.
* Explain the testing that will be carried out
* To tell developer the mistake from Charum
* Identification Bug in the Charum
  1. Background

The Quality engineers will do testing and checking software of Charum, the testing have propose to been made in order to find existing bugs. The testing hopley to can minimize bugs in the software. 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. Scope

This document contains testing of the Charum web Ui, Rest Api and mobile Application. The scope to be tested includes testing the functionality, manually, user interface, and automation of each feature on the web such as authorized user from register, login, logout etc. and 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 Alta Shop (https://t.ly/8Od8).

1. **Requirement for test**

Requirements for this test include :

For Web UI the system being tested, which is Charum. For API the API URL being tested, which is . Mobile app.

Tools that are used for testing such as :

* Katalon Studio for automation testing for all software.
* Vysor For emulator mobile testing.
* Microsoft Word for test plan.
* Microsoft Excel for test Case, Matrix
* Google Chrome for running websites.
* Google Docs for document test and report.
* Microsoft Excel for test documentation.
* USB Cable for connect Handphone to vysor

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

1. **Test Strategy**
   1. Test Types
      1. Web UI

* Manual testing test conducted manually to learn the feature of the application have worked well, identify bugs, and ensure the product is error free
* Automation testing that use manual to automated, with tools to look for bugs that are not visible, can be used repeatedly.
  + 1. Rest Api
* Manual testing ensure that all endpoints functions, HTTP method, status codes are working perfectly
* Automation testing conducted manually to learn the features of the application have worked well.
  + 1. Mobile
* Functional testing ensure that all endpoint function, HTTP methods, status codes are working perfectly
* Automation testing conducted manually to learn the features of the application have worked well
  1. Tools

The tools to testing and checking Web UI, Rest Api and Mobile

|  | 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 spreadsheet | Google spreadsheet | 2019 |

1. Resources
   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 |  |
| Software Test | Katalon Studio 3.8.0  Google Spreadsheet  Vysor |

1. Project Milestones

| No | Milestone Task | Start date | End date |
| --- | --- | --- | --- |
| 1. | Plan Test | 16/11/2022 | 23/11/2022 |
| 2. | Design Test |  | 01/12/2022 |
| 3. | Implement Test |  | 05/12/2022 |
| 4. | Execute Test | 01/12/2022 | 09/12/2022 |
| 5. | Report Test | 09/12/2022 | 14/12/2022 |

1. 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 |