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**Mini Project**

**Studi Independen Alterra Academy**

**Test Plan**

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**Test Plan**

### **1. Introduction**

This Test Plan document explains about plans of testing software requirement and compatibility based on software requirement planning at the beginning of software development. Testing will be done on several components and interfaces. Tests will be done on Web and Mobile Platform. We will also test the Rest API endpoint. This Test Plan Document will be the base of testing that will be done. It will be the basis to test the compatibility of software development results based on initial development goals. This document written as detail as possible, to try to cover all aspects from the software development.

#### **1.1 Purpose**

This Test Plan document made to fulfill mini project task in the “Studi Independen” program which run by Alterra Academy, namely :

1. Identify software component that need to be tested
2. Write list of needs to do the testing
3. Made Test Plan, Test Scenario, and Test Cases
4. Identify Software bugs/errors after doing testing

#### **1.2 Background**

The execution of software testing need to be done to ensure the quality of the software. So the software could be used and run well as mentioned in the software requirement planning. Testing will be done to prevent bugs / errors when the software runs.

#### **1.3 Scope**

The Scope of testing includes :

##### Testing Alta Shop Website (<https://qa.alta.id/>)

Testing the functionality of web component that has been developed. We would the functionality of page links, buttons, forms input. The test aim to mitigate presence of bugs / errors on the web component.

##### Testing Alta Shop REST API (<https://be-qa.alta.id/api>)

Done to test the functionality of Alta Shop REST API. The test will send requests to API endpoint, then it will validate the response sent by API.

##### Testing Mobile Apps

Mobile app components needs to be tested after developed. How the user will interact with the button, forms and page links needs to be tested before it could be used by the user. Testing the mobile component will find out bugs / errors before the software used by the user.

**1.4 Project Identification**

| **Document** | **Created** | **Reviewed** | **Author** |
| --- | --- | --- | --- |
| Role Matrix | Yes |  |  |
| Test Scenario | Yes |  |  |

### **2. Requirements for Test**

Testing will be done based on Test Scenario document, it contains every test cases and test scenarios explanation, data requirement, testing condition, test steps, test status and test results. After running the test, the results of testing should be written in test scenario document. If bugs does exists, it should be written and described in test scenario.

### **3. Test Strategy**

Testing Strategy consists of all testing plan to do testing on software.

#### **3.1 Testing Types**

##### **3.1.1 Functional Testing (Manual & Automation) Alta Shop Web**

| Test Objective | * Form Input   Test every form that needs input data to be processed   * Button Click   Test every button to perform correlating functionality |
| --- | --- |
| Technique | * Test every button on page * Test every form input with various input condition |
| Completion Criteria | * Every button able to perform its own functionality * Form able to reject wrong input |
| Special Considerations |  |

##### **3.1.2 API Testing Alta Shop REST API**

| Test Objective | * Send Request and Get Valid Response |
| --- | --- |
| Technique | * Test every available request * Verify response |
| Completion Criteria | * API could sent back Valid Response correlating to the request |
| Special Considerations |  |

##### **3.1.3 Testing Mobile Apps**

#### **3.2 Tools**

| Types | Tools | Vendor | Version |
| --- | --- | --- | --- |
| Web, API, Mobile Testing Tools | Katalon | Katalon |  |
| Test Scenario tools | Google Sheets | Google |  |
| API Testing Tools | Postman | Postman Inc |  |
| Mobile Viewer | Visor |  |  |

### **4. Resources**

This section will explain about recommended resource to do every testing on this mini project.

#### **4.1 Workers**

On the table below, we explained how much minimum resources we recommend to do specific responsibilities.

| Worker | Minimum Resources Recomended | Specific Responsibilities |
| --- | --- | --- |
| Test Designer | 1 | * Create and Identify Test Plan, Test Scenario, Test Case * Group Test Cases, Test Scenario to correlating group |
| Web Tester | 1 | * Implementing Web test with scenario which has been made * Keep records of everything that occur during testing |
| API Tester | 1 | * Implementing API test with scenario which has been made * Keep records of everything that occur during testing |
| Mobile Tester | 1 | * Implementing Mobile test with scenario which has been made * Keep records of everything that occur during testing |

#### **4.2 System**

| System Resources | |
| --- | --- |
| Resource | Name / Type |
| Tester PC | PC that already installed Katalon, Postman, and Visor |

### **5. Project Milestones**

This Mini Testing Project will be separated to some small project milestones. Project milestones helps the team to ensure what to do at certain times.

| **Milestone Task** | **Start Date** | **End Date** |
| --- | --- | --- |
| Plan Test | 09 May 2022 | 10 May 2022 |
| Design Test Cases and Test Scenario | 10 May 2022 | 11 May 2022 |
| Implement Test | 11 May 2022 | 12 May 2022 |
| Execute Test | 12 May 2022 | 14 May 2022 |
| Evaluate Test | 14 May 2022 | 16 May 2022 |

### **6. Deliverables**

This test plan will produce information about quality, validity, compliance to the software requirement that made at the beginning of software development. Any bugs / errors that found will be used to evaluate the development process and increasing the quality of the software. So the software could run well and could be used well by the user.