**Test Plan**

**DISKUSI.IN**

**Capstone Kelompok 13 Quality Assurance**

**Alterra Akademi Academy**

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**Test Plan**

# introduction

The test plan is the basis used to test the suitability of the results of the software design with the goals that have been determined and determined during project design. With a well-detailed test design, all aspects of the software can generally be covered and the design results are in accordance with the development plan that has been made previously.

This test plan document, which is needed to test the website needed for a Capstone project from Alterra Academy. This document contains information about the website, how to approach it and a structured test plan. There are also systems that will be tested, namely Rest api test, Mobile app test, Web ui test and CI/CD. The test plan describes important information about the test project, what features will be tested, resources will be used for testing and so on.

## 1.1 Purpose

The purpose of this test plan document is to:

1. Identify the software features to be tested.
2. Determine the type of test that will be applied to website testing.
3. Determine what tools will be used in testing.

## 1.2 Background

Testing is required to ensure that the software or system being tested meets the specified requirements. In addition, testing is also carried out to identify possible errors that occur in the system created. A test plan document is required to run the test. This test plan will be used as a reference during testing to achieve the expected goals and results.

## 1.3 Scope

This document contains web system testing. The scope to be tested includes testing functionality, manuals, user interfaces, and automation of every feature on the web, such as User Registration, Thread Search, Create thread, Follow thread, and Bookmarks. For mobile apps, the scope to be tested uses the same tests as the web UI. The scope to be tested includes manual testing and API automation on form API URL.

# Requirements for Test

Requirements for this test include:

For the Web UI the system tested is DISKUS.IN . Then for the RESTful API tested DISKUSIN [API](https://be-qa.alta.id/api) and lastly is the mobile app is alta-online-shop.apk.

The tools used for testing such as:

1. Katalon Studio for automation testing for all software.
2. Google Docs for test and document reports.
3. Microsoft Excel for test documentation.
4. Vysor is used for emulator mobile testing.

Both tools are used for all systems to be tested.

# Test Strategy

## 3.1 Test Type

### 3.1.1 Web UI

1. Manual Testing

**Test Purpose** : To find defects or bugs in software and ensure that all application features work as expected.

**Technique:**

* Open the DISKUSI.IN website
* Register and login
* Test every feature
* Make a test case
* Make a bug report

**Completion Criteria :** Verify each object to be used and make sure the result is the same as expected.

1. Automation Testing

Test Purpose : to automate repetitive tests that are difficult to do manually. and can run test cases repeatedly.

**Technique :**

* Get the object
* Create a test case
* Run test suite
* Check the results and make a report

**Completion Criteria :** Verify each object to be used and make sure the result is the same as expected.

### 3.1.2 API

1. Automation Testing

**Test Purpose** : to automate repetitive tests that are difficult to do manually. and can run test cases repeatedly.

**Technique :**

* Get the object
* Create a test case
* Run test suite
* Check the results and make a report

**Completion Criteria :** Verify each object to be used and make sure the result is the same as expected.

1. Function 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

### 3.1.3 Mobile

1. Manual Testing

**Test Purpose** : To find defects or bugs in software and ensure that all application features work as expected.

**Technique:**

* Open the DISKUSI.IN application on mobile
* Register and login
* Test every feature
* Make a test case
* Make a bug report

**Completion Criteria :** Verify each object to be used and make sure the result is the same as expected.

1. Automation Testing

Test Purpose : to automate repetitive tests that are difficult to do manually. and can run test cases repeatedly.

**Technique :**

* Connect phone with laptop
* Get the object
* Create a test case
* Run test suite
* Check the results and make a report

**Completion Criteria :** Verify each object to be used and make sure the result is the same as expected.

## 3.2 A lat

|  | Tool | Seller | Version: when |
| --- | --- | --- | --- |
| Web, Mobile and API Testing Tools | Katalon Studio | Catalonia | 8.3.5 |
| Test Case Document | Spreadsheets | Spreadsheets | 2019 |
| Mobile Test Emulator | visor | visor | 4.1.7 |
| Test Plan and Report | Google Docs | Google Docs | 2019 |

# Resource

## 4.1 System

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

| System Resources | |
| --- | --- |
| Source | Species name |
| Web UI  FIRE  Mobile Apps |  |
| PC  Processor  RAM  Operating system | Intel Core i5-6300U  8GB  Windows 10 Pro 64-bit |
| Software Test | Katalon Studio  Microsoft Excel  visor |

# Project Milestones

| Not | Milestone Task | Start date | End date |
| --- | --- | --- | --- |
| 1. | Test Plan | 16/11/22 | 23/11/22 |
| 2. | Design Test | 16/11/22 | 16/12/22 |
| 3. | Apply and Run Test | 8/12/22 | 16/12/22 |
| 4. | Test Report | 8/12/22 | 16/12/22 |

# Posts

The delivery of 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 for how the test will be carried out and the requirements and types of testing to be carried out.

1. Document matrix

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

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.