

Introduction

The purpose of this test plan is to ensure that the product warranty web application is functioning correctly and providing accurate warranty information based on the serial number provided by the user. This test plan covers functional testing of the web application.

Test Scope

The scope of this test plan is limited to testing the functional aspects of the product warranty web application. It does not cover performance, security, or other non-functional aspects of the application.

Test Environment

The product warranty web application will be tested in the following environment:

- Operating System: MacOS
- Browser : Google Chrome

Test Data

The following test data will be used for functional testing of the product warranty web application:

- Valid Serial Number: 1863552437
- Invalid Serial Number: 12345, 12?456

Test cases

Test Case: Valid Serial Number Input

Preconditions: The web application is open and the user is on the product warranty page

Test Steps:

1. Enter a valid serial number in the input field
2. Click on the "Get Info" button

Expected Result: The warranty information for the product with the given serial number is displayed

Test Case: Invalid Serial Number Input - Less Than 6 Characters

Preconditions: The web application is open and the user is on the product warranty page

Test Steps:

1. Enter a 5-character serial number in the input field
2. Click on the "Get Info" button

Expected Result: An error message is displayed indicating that the serial number should be 6 characters long

Test Case: Invalid Serial Number Input - Contains Invalid Characters

Preconditions: The web application is open and the user is on the product warranty page

Test Steps:

1. Enter a serial number that contains symbols or other invalid characters in the input field
2. Click on the "Get Info" button

Expected Result: An error message is displayed indicating that the serial number contains invalid characters

Test execution

The functional testing of the product warranty web application will be executed in the following phases:

- Test Case Preparation: The test cases will be reviewed and finalized.
- Test Environment Setup: The test environment will be set up, including installing the web browsers and essential software packages.
- Test Data Preparation: The test data will be reviewed and prepared.
- Test Case Execution: The test cases will be executed, and the results will be recorded.
- Test Reporting: The test results will be compiled and reported, including any defects found during testing.