

## PROJECT DOCUMENTATION

# TEST PLAN

**Project:** **E-commerce website for Caramels and Almonds**

Release: June 2023

Date: 21<sup>st</sup> July 2023

## PRINCE2

Author: R.S Senarathna (Quality Manager)

Owner: Dr. Yasas Jayaweera (Project Executive)

Client: Caramels and Almonds by Senuthi Wijesinghe

Document Ref: TestPlan \_CaramelsandAlmonds

Version No: 1.0

# 1 Highlight Report History

## 1.1 Document Location

This document is only valid on the day it was printed.

The source of the document will be found on the project's PC in location

## 1.2 Revision History

Date of this revision: 21/07/2023



Date of Next revision:

Revision date	Previous revision date	Summary of Changes	Changes marked
21/07/2023	-	First issue	

## 1.3 Approvals

This document requires the following approvals.

Signed approval forms are filed in the Management section of the project files.

Name	Signature	Title	Date of Issue	Version
Dr.Yasas Jayaweera		Project Board	23/07/2023	1.0
Pruthuvi Wijesinghe		Project Manager	23/07/2023	1.0
Miss. Senuthi Wijesinghe		Client	23/07/2023	1.0

## 1.4 Distribution

This document has been distributed to:

Name	Title	Date of Issue	Version
Pruthuvi Wijesinghe	Project Manager	23/07/2023	1.0
R.S Senarathna	Quality Manager	23/07/2023	1.0
A.S De Silva	Risk Manager	23/07/2023	1.0
Hasini Jayasekara Vithanage	Scheduling Manager	23/07/2023	1.0
H.M.Pumudi Herath	Start-up Manager	23/07/2023	1.0

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## **Test Plan**

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### **3 Introduction**

The test plan specifies the manner in which the complete testing operation will be carried out, the scope of what will be tested, as well as the key elements of the testing methodology. The best project will occur through tests, which will use test cases to assess whether all system functions are operating as intended. Test methodologies can be created and utilized to determine whether the functions are working properly, are accessible, and are logically related, based on the project's scope and level of complexity. A test plan is an organizational strategy that guarantees a significantly expanded scope. This enables managers to calculate the testing procedure's time and cost requirements with accuracy. The aforementioned greatly facilitates QA's usage of the test plan to manage and monitor development. In the end, this will also help to produce a successful outcome.

The system testing meets the following goals:

- To determine the testing process's tool requirements
- Give accurate information to those in charge, specify areas that need investigation, set expectations for the schedule, and evaluate environmental needs
- To outline the testing process

This testing process's main objectives are to lessen system errors and produce excellent documentation. The testing process also makes sure that the system is running correctly and is in the correct manner that the client has requested.

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### **5 Testing Items**

The execution phase consists of three sprints. The testing procedure is done at the end of each sprint, which helps in determining the problems and enhancements that will have to be handled in the next sprint.

The testing and evaluation process is also a distinct step in the execution phase. Depending on the scope, complexity, and objectives of the proposed project, the following test procedures can be created and utilized to determine whether the final product functions effectively and is accessible. A test plan is an administrative tactic for broadening a project's

functional scope. The time and cost required to complete the testing procedure can then be properly estimated by managers.

Due to the aforementioned details, the test plan may be used by the quality manager to track and manage development, leading to a good outcome. The system to be assessed during testing encompasses both the front end and all of the back-end functions of the website. It is important to examine the structure, reliability, and input-output specifications of the website's front end. The systems should be assessed using the most recent secure web browsers, such as Google Chrome and Mozilla Firefox. Additionally, a desktop computer, a mobile phone, and a tablet computer will be used to assess the site's responsiveness. Back-end testing ensures that information is correctly sent from the task to the database.

## 6 Features that needs to be tested

### Tasks of the customer

Risk No	Action	Result
1	Load the website - <a href="https://caramelsandalmonds.com.lk/">https://caramelsandalmonds.com.lk/</a>	Navigate to the login interface after the website has loaded successfully
2	Click on the account icon in the top navigation bar of the website	Load the login and registration window.
3	Enter the email address and click on the register button	Details will be registered on the system
4	Enter the email address and password, and click on the login button	Validate credentials and direct to the website
5	Click on "Account Details" on the dashboard	Load the Account Details page
6	Fill in all necessary details and click on the "Save Changes" button	Update profile data
7	Click on "Addresses" on the dashboard	Load Addresses tab, which includes shipping and billing addresses

8	Click on "Add" under shipping or billing address, enter the necessary details, and click on "Save Address"	Save all necessary details
9	Click on the gift icon	Load the spinning wheel
10	Click on the "SPIN THE WHEEL" button	The wheel will spin, and if the arrow head lands on a prize, the coupon code will be sent to the email address
11	Click on the "Shop" button on the navigation bar or select an option from the drop-down list	Load all available cakes and other sweet items
12	Sort cakes according to popularity, average rating, latest, Price: low to high, or price: high to low	Sort and load cakes according to the selected type
13	Select a cake by clicking on "QUICK VIEW" or clicking on the cake	Load the product details page
14	Select the quantity and click on the "Add to Cart" button	Store the cake/cakes in the cart and display a notification that the items have been added to the cart
15	Click on the cart button in the navigation bar or the "view cart" button	Display the cart with the selected items (cakes)
16	Click on the "PROCEED TO CHECKOUT" button	Load and display the checkout page with the necessary details and fields to enter customer details
17	Enter all necessary details and click on the "place order" button	Display the order number, date, total, and payment method, and load the payment page
18	Select a bank card or other option to pay	Load and display the page to enter the necessary details (Name of card, credit card number, CVV, expiration)
19	Click the "Pay" button	The order will be completed

20	Click on "Orders" on the dashboard	Display the order number, date, status, total, and actions that can be performed. (Pay, view, and cancel)
21	Click the heart icon located on the top-right corner of an item image	The item will be added to the wishlist. It will be saved to the wishlist on the dashboard along with the product image, product name, unit price, and stock status
22	Click the chatbot icon and add sample data to help the chatbot understand the question	Get appropriate response
23	Select the logout option from account icon	Log out of the system

**Tasks of the system admin**

Risk No	Action	Result
1	Load the admin dashboard - <a href="http://caramelsandalmonds.com.lk/wp-admin">http://caramelsandalmonds.com.lk/wp-admin</a>	Navigate to the login interface
2	Enter the necessary login credentials to login to the dashboard	Validate admin credentials and load the admin dashboard
3	Select "All Users" button located under the Users section	Display all registered users along with their usernames, emails, roles, and posts
4	Click the edit to edit user details, delete to delete user, view to view website, and send password to get the password links	Perform the necessary actions relevant to the selected links
5	Click "Add New" button in the All Users page	Load the "Add New" page

6	Enter the required details and click on the "Add new user" button	Details will be saved
7	Click the "All Products" button located under the Products section	Load and display all the products added to the system
8	Click on edit to edit cake details, trash to remove cake, view to view cake on the website, and duplicate to duplicate cake	Perform the necessary actions relevant to the selected links
9	Click on the "Add New" button located under Products section	Load and display Add New product page
10	Enter all relevant details about the cake and click the "Publish" button	Validate the cake's details and add it to the website
11	Click on the "Categories" button located under the Products section	Load and display all cake categories
12	On the "Add new category" side, add the name, slug, and image of the cake, and click on the "Add new category" button	Add the category to the dashboard and website
13	Click on the "Reviews" button under the Products section	Display all reviews given by the users
14	Click on approve to approve the review, reply to reply to the review, edit to edit the review, and trash to delete the review	Perform the necessary actions relevant to the selected links
15	Click on "All Pages" under the Pages section	Display all created pages on the website along with the author and published date and time
17	Click on the "Add New" button	Load and display the "Add New" page
18	Enter all necessary details about the new page and click on the "Publish" button	Publish the new page in the "All Pages" section and on the website



19	Click the "Orders" section	Load and display all orders placed by the customers along with the order number, name, date, status, and total
20	Select and click on one order	Load and display all order details relevant to the selected order, along with general details, billing details, shipping details, order history, and payment history

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## **7 Features that do not require testing**

The project team doesn't have a tablet. As a result, the mobile device's front-facing display is not tested.

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## **8 Testing Method**

There will be numerous methods used during the testing procedure. The unique features and functions of each sprint and stage are examined. An open-source tool used for testing is "Selenium." Capturing events, fixing bugs, modifying events, etc. are done using the Selenium IDE. The testing process is carried out using the aforementioned tools. Also, the quality log and quality checklist documents are updated on a regular basis. The project team's quality manager will set up test runs. The test case records and other relevant information will be noted as well. When a test is marked as failed, the issue log will be updated appropriately. Once the testing process is over, the quality manager should review the test reports and report to the project team members. Tests are conducted in the project documentation phase as well.

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## **9 Pass/Fail Criteria**

All corrected faults are examined, all scheduled tests are carried out, and all fundamental system components are used in accordance with the particular test cases. Failures should not have a significant impact on the client's ability to use the website. The client should be

able to execute the actions without any problems if no serious errors are found. All test cases have to pass 95% of the time.

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## **10 Reasons to stop and restart the testing procedure**

The planned testing operations will be stopped if something goes wrong. They ought to be stopped until the issue is resolved. In the event that any of the below-mentioned problems occur, the test will be stopped.

- Problems with system access
- No important action is performed
- Lost the database connection
- Facing issues with library files when trying to run the system

The system test was restarted after the login problems were fixed, actions were configured to be active, the database connection was properly configured, library files were downloaded, and the environmental parameter was adjusted.

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## **11 Test Deliverables**

- Test cases
- Test Report
- Issue Log
- Quality Log

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## **12 Testing Tasks**

The testing process is conducted using Selenium. The Selenium IDE is used to develop Selenium test cases. Firstly, install the suitable plugin in the web browser. The ideal selenium environment must be achieved. Also, the website needs to be hosted and connected; if not, the test procedure will not work. Before the system starts, various sample test values that are needed for the unit test procedure must be acquired.

Front-end testing needs devices like laptops and mobile phones. Its functionality on multiple devices is tested using the hosting web application. Additionally, by selecting several devices, the website's responsiveness can be tested.

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## **13 Responsibilities**

The project team's quality manager is in charge of all testing procedures for this e-commerce website. The responsibilities are as follows:

- 1 Develop a test plan
- 2 Examine the testing procedure
- 3 Activate test cases and evaluate the website's precision
- 4 Use testing procedures to ensure that current items satisfy client needs
- 5 Make necessary changes to the risk log and quality log
- 6 Let the project team members know about any potential risks

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## **14 Staff and Training**

The individuals who use the quality assurance technique don't know much about the products they sell or how the system functions. The testing process struggles because of a lack of expertise. Before beginning the testing procedure, experts in the field and the client must be addressed to get a better understanding of the proposed website.

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## **15 Schedule**

The testing process needs to be finished on time. The project timeline will be delayed if the website's testing schedule is incorrect. The test will therefore be incorporated into the overall project timeline. The Gantt chart depicts that the testing process is done at the conclusion of each sprint used in the execution phase.

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## **16 Risks and Contingency Plans**

Some of the risks that can occur are mentioned below.

- 1 Not all the features of the website are available
- 2 Lack of a defined test scope
- 3 External services are not adequately integrated into the website

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The contingencies are listed below.

- 1 Let the project team members know and fix it
- 2 Specify the test scope before conducting the testing process

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## **17 Approvals**

To conclude the project and choose the next stages, the project manager and the project board must come to an agreement. The proposed website will be examined with various testing methodologies after gaining approval from the project manager.