Ikea Ph

Test Plan

Purpose: This document provides an overview of the project and the product test strategy, a list of testing deliverables, and recommendations for improvement.

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Revision History

Version	Author	Revision Date	Approved By	Description
1.0	Marie Lora Angelica Saranillo	04/17/2023	Karen Marie Igcasan	Test Plan created.

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1. Overview

1.1. Purpose

The purpose of this document is to define the scope, approach, resources, and schedule of all the testing activities of the project Ikea PH. The plan identifies the items to be tested, the types of testing to be conducted, the resources and schedule required for completing the task, and the risks associated with the plan.

1.2. Scope

This document details the testing that will be performed on https://www.ikea.com/ph/en/. It identifies the overall testing requirements and provides an integrated view of the project test activities.

1.2.1. In the scope

The testing to be performed will cover the functionality, performance, and security of the website.

Test Type	Module Name	Description
Functionality	Search	To ensure that the search results are relevant to the user's query.
	Navigation	To verify that all the links are working correctly.
	Create Account	Ensure that new users can create an account and that appropriate errors are triggered when necessary.
	Login	Verify that logged-in users can access and easily manage their account information, view their order history, and track their purchases.
	Product pages	Verify that the functionality, layout, and content of product pages are displayed properly.
	Shopping Cart	To verify that the process of adding items to the cart up to the billing, shipping, and completing the transaction are working accordingly.

Test Type	Module Name	Description
Performance	Load testing	To verify how well the website handles traffic, transaction, and data processing during peak hours.
	Endurance Testing	To verify how the website behaves with continuous load and its performance during sustained user activity.

Test Type	Module Name	Description
Security	Session management	To verify that the user is logged out after a certain amount of time of inactivity or if the session is terminated when a user logs in from a different device.
	Data validation	To verify that input fields such as username, email, password, and address fields are correctly validated.

1.2.2. Out of scope

The following are not to be tested/executed due to limited accessibility and resources:

- *Database verification*
- *User Interfaces*
- *Hardware Interfaces*
- *Software Interfaces*
- *Communication Interfaces*
- *Regression testing*

1.3. Risk and Issues

Risk	Mitigation
It is difficult to meet and deliver the required output on time due to the tight timeline.	Accomplish the minimum requirements first before doing the extra mile.
Tester lacks the required skills for the other required tests.	Allot some time to pick up the skill by reading up and following tutorials.

1.4. Test Logistics

1.4.1. Who will test?

Lora Saranillo will execute the tests.

1.4.2. When will the tests occur?

The tester will commence the tests once the following inputs are ready:
- Website is available for testing.

- Test Environment is ready.

2. Test Objectives

The goal is to ensure that the https://www.ikea.com/ph/en/ website is both functional and dependable, even when there is a higher number of users accessing the site simultaneously. The testing process should prioritize verifying that the website consistently provides the expected response based on user input and actions.

3. Test Criteria

3.1. Suspension Criteria

If the QA tester finds out that 40% of the test cases have failed, suspend testing and outline the details in the test report to summarize.

3.2. Exit Criteria

This defines the criteria that indicate the successful completion of a testing phase.

- It is compulsory for the run rate to be at 100% unless a valid reason is provided.
- Attaining a pass rate of 80% is compulsory and must be achieved.

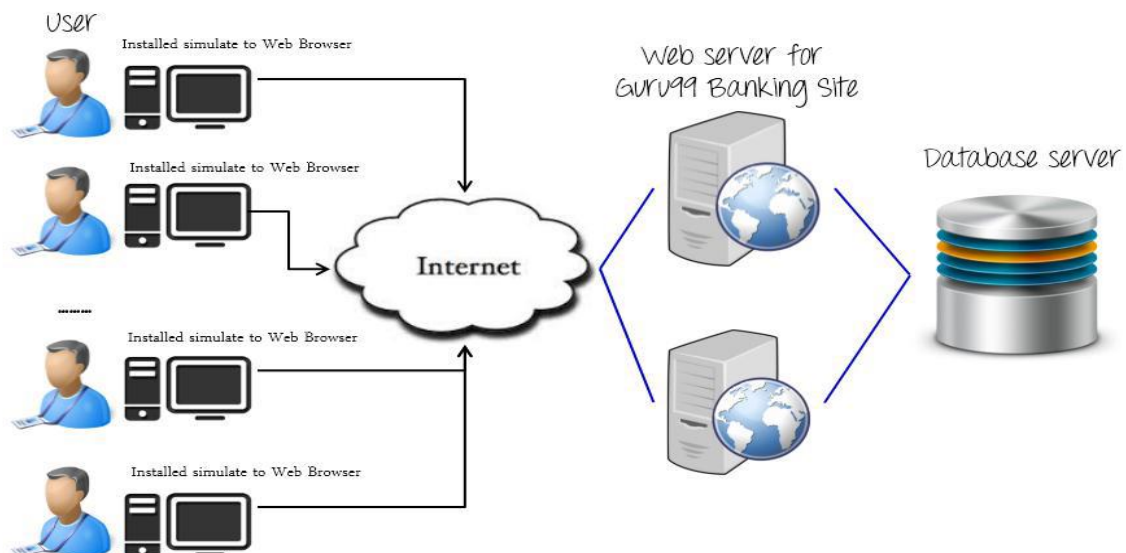# 4. Resource Planning

4.1. System Resource

No.	Resources	Description
1	Computer	1 Computer with Windows 11
2	Network	Stable network connection with at least 5mbps speed.
3	Test Tools	- Selenium IDE - Jmeter - Postman

4.2. Human Resource

No.	Member	Task
1	Tester/QA Manager	- Manage the whole project. - Acquire appropriate resources. - Develop and execute the test plans and test cases. - Evaluate and document the test results. - Identify and conduct automated tests.

5. Test Environment

The Test Environment should be set up as figure below:

6. Schedule & Estimation

6.1. Project Task & Estimation

Member	Description	Estimate Effort
Test Case Specification	Outline the specific requirements and procedures to test the functionality or feature of the website.	8 man-hours
Verification & Execution	Make test scripts and cases, then run the tests.	34 man-hours
Test Report	Compile and record the test results, highlighting any flaws and suggested fixes, and share the information with the project's stakeholders.	6 man-hours
Total		48 man-hours

6.2. Schedule to complete these tasks

Task Name	April							
	17	18	19	20	21	22	23	24
	M	T	W	T	F	S	S	M
Test Case Specifications	██	██						
Verification and Execution			██	██	██			
Test Report					██	██	██	
Test Delivery								██

7. Test Deliverables

Test Deliverables are provided as follows:

7.1. Before the testing phase

- Test plan document.
- Test cases document.

7.2. During the testing

- Test Tool
- Simulators
- Test Data

After the Testing
- Test Results
- Test Execution Demo
- Test Summary