TEST PLAN

## Project Name: LAMBDATEST PLAYGROUND

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### Date: Oct 02, 2024

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# Introduction

The aim of this document is to give an overview of the testing approach, strategies, and scope for the LAMBDATEST PLAYGROUND. This document includes details like scope of the project, objectives, test schedule and resource allocations, test deliverables and reports.

##### AUT: <https://ecommerce-playground.lambdatest.io/>

**Objectives**

* To ensure the functionalities of key features such as product search, add to cart, checkout, filter, compare product, payment, and account management.
* To check the user accessibility of the website.

# Scope

This test plan covers only functional testing and compatibility testing of the Lambdatest Playground web application across different browsers and user accessibility of the product.

# Testable features:

* Register
* Login
* Forgot password
* New user
* Search
* Home
* Shop
* Special hot
* Blog
* Mega Menu
* AddOns featured
* Top trending category
* Wishlist
* Top product
* Top collection
* Popular
* Latest
* Best Seller
* From the Blog
* All category
* Compare
* Top category
* Components
* Camera
* Track
* Mobile
* Accessories
* Desktop
* Laptop
* Software
* Phone and PDAs
* MP3 Players
* Add to cart
* Checkout
* Account information
* Order information

# Testing Approach:

###### Testing Types

* Functional Testing
* Compatibility Testing
* Usability Testing
* Integration Testing
* UI/UX
* Security Testing
* Performance Testing
* UAT

###### Testing Methodologies

* Black-box Testing
* White-box Testing
* Regression Testing
* User Acceptance Testing (UAT)

###### Testing Environment

* UAT
* Pre-Prod

###### Operating System

* Windows 11 and above
* Browsers: [Chrome]
* Testing Tools: [Excel, Word, Miro, Microsoft teams.]

# Roles/Responsibilities

|  |  |  |
| --- | --- | --- |
| **Name** | **Role** | **Responsibilities** |
| Nandan Kumar | Test Manager | * Manage budget and resources. * Allocating additional support resource. * Assess and prioritize project risks/tasks. * Monitoring project progress. * Resolve communication issues and conflicts effectively. |
| Sagar Jain | Test Lead | * Develop test plans and strategies in alignment with project objectives and requirements. * Assign tasks, set priorities, and provide and support to team members. * Review test results and provide feedback to team members. * Monitor and manage risks throughout the testing life cycle. |
| Sanket | Test Engineer | * Understand customer requirements * Write Test scenarios & Test cases * Executing the Test cases. * Performing root cause analysis to identify underlying issues. * Defect tracking and reporting. |
| Sanket | Test Engineer | * Understand customer requirements * Configuring and Setting up test environment. * Management of Automation tools. * Executing Regression Test cases. * File Closure activity. |

|  |  |  |
| --- | --- | --- |
| Sanket | Test Engineer | * Understand areas for regression testing feasibility. * Responsible for writing automation scripts. * Conducts Smoke, Functional, Integration, System. * Collaboration with on shore subject matter experts. |

# Test Schedule

Following is the test schedule planned for the project:

|  |  |
| --- | --- |
| **Task** | **Time Duration** |
| Test Plan creation | 1 Oct 2024 |
| Mind Map | 1 Oct 2024 |
| Test Scenario creation | 2 Oct 2024 |
| Test case creation | 2 Oct - 3 Oct 2024 |
| Bug Report | 2 Oct – 3 Oct 2024 |
| RTM | 2 Oct – 3 Oct 2024 |
| Test case Execution | 3 Oct - 4 Oct 2024 |
| Summary Report Submission | 5 Oct 2024 |

# 

# Test Deliverables

The following are to be delivered to the client:

|  |  |  |  |
| --- | --- | --- | --- |
| **Deliverables** | **Description** | **Responsible Owner** | **Target Completion**  **Date** |
| Test Plan | Outlines the testing approach, strategies, and scope for the Lambdatest Playground web application. | Masai | 2 Oct 2024 |
| Test Cases | Test Cases created for functional testing, UI/UX, usability testing and  compatibility testing. | Masai | 3 Oct 2024 |
| Defect Reports | Detailed description of the defects identified in different versions of application. | Masai | 5 Oct 2024 |

**Entry and Exit Criteria**

The below are the entry and exit criteria for every phase of Software Testing Life Cycle:

###### Requirement Analysis

###### Entry Criteria:

Once the testing team receives the Requirements documents and use documents of the project. Includes what functions needs to be tested and how the software should behave.

###### Exit Criteria:

The testing team should thoroughly explore and understand each requirement listed in the documents. Any doubts or uncertainties regarding the requirements should be addressed and clarified to ensure that the testing team has a clear understanding of what needs to be tested and how it should behave.

###### Test Planning

###### Entry Criteria:

Testable Requirements derived from the given Requirements documents. Test Plan document includes the Test Strategy, which provides a high-level overview of

how testing will be conducted.

###### Exit Criteria:

Test Plan is signed-off by the Client (Lambdatest Playground)

###### Test Designing

###### Entry Criteria:

The Test Plan document needs to be reviewed and approved by the client and then Test Plan Document is signed-off by the Client

###### Exit Criteria:

Test Scenarios and Test Cases Documents are prepared, they need to be reviewed and signed-off by the Client i.e. Lambdatest Playground.

###### Test Execution

###### Entry Criteria:

Test Scenarios and Test Cases document needs to be reviewed and approved by the client and documents are signed-off by the Client i.e. Lambdatest Playground. Application is ready for further Testing.

###### Exit Criteria:

Test Case Reports, Defect Reports are ready.

###### Test Closure

###### Entry Criteria:

Test Case Reports, Defect Reports are ready.

###### Exit Criteria:

Test Summary Reports, it overviews of the entire testing process.



# Tools

The following are the list of Tools we will be using in this Project:

* + X mind map Tool
  + Microsoft Teams – collaboration
  + Excel
  + Word

# Risks and Mitigation plans:

The following are the list of risks possible and the ways to mitigate them:

|  |  |
| --- | --- |
| **Risk** | **Mitigation plans** |
| Lack of Automation Testers | Backup Resource Planning |
| No detailed Requirements available | Subject matter experts available for  deep understanding of functionalities |

# Approvals

Masai will send different types of documents for Client Approval like below:

* + Test Plan
  + Test Scenarios
  + Test Cases
  + Bug Report
  + Summary Of Test Execution Report
  + Test Execution Report
  + Mind Map
  + RTM

Testing will only continue to the next steps once these approvals are done.