**TEST PLAN**

**Project Name : Nykaa Web Application**



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**Table of Contents**

Introduction

Objective

Scope

Testable Features

Testing Approach

Roles/ Responsibilities

Test Schedule

Test Deliverables

Entry & Exit Criteria

Tools

Risks and Mitigation Plans

Approvals

**Introduction**

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

An eCommerce platform typically involves complex systems such as online shopping carts, payment gateways, product catalogs, order management systems, and customer profile it is essential to plan organize, and execute through testing to defect bugs, ensure security, and optimize performance the test plan helps ensure the platform operates as expected under various conditions, meets user expectations and complies with industry standards

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**Objectives**

The primary goal is to ensure that the eCommerce application functions correctly, with no issues during user interactions such as browsing products, adding items to the cart, processing payments, or completing purchases.

**Scope**

This test plan covers Functional testing, Performance Testing, Usability Testing and compatibility testing of the Nykaa web application across different browsers.

**Functional Testing:**

Verifying that the features of the eCommerce platform work as expected, including search functionality, product browsing, checkout process, and user login.

**Performance Testing:**

Ensuring that the system can handle high volumes of traffic, especially during peak periods like sales or holidays.

**Compatibility Testing:**

Ensuring that the platform works on different browsers, devices (mobile, tablet, desktop), and operating systems.

**Usability Testing:**

Verifying that the platform is easy to navigate, user-friendly, and provides a smooth shopping experience.

**Testable Features :**

Register

Login

Forgot password

New User

Search

Advanced Search

Best sellers

Mobiles

Today’s Deals

Electronics

Prime

Fashion

Home & kitchen

Nykaa Pay

Gift Ideas

Books

Car & Motorbike

Home Improvement

Sports, Fitness & Outdoors

Coupons

Toys & Games

Gift Cards

Filter

Wish list

Add to cart

Payment Processing

Account Information

Order Information

**Testing Approach :**

1. **Testing Types**

* Functional Testing
* Compatibility Testing

1. **Testing Methodologies**

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

1. **Testing Environment**

* UAT
* Pre-Prod

1. **Operating System**

* Windows 12 and above
* Browsers: [chrome and firefox]
* Testing Tools : [ selenium, Postman, Jira, zephyr, microsoft teams, salesforce.]

**Roles/Responsibilities**

| **Name** | **Role** | **Responsibilities** |
| --- | --- | --- |
| Pooja Yadav | Test Manager | 1. Manage budget and resources.  2. Allocating additional support resources.  3. Assess and prioritize project risks/tasks.  4. Monitoring project progress.  5. Resolve communication issues and conflicts effectively. |
| Anjali Show | Test Lead | 1. Develop test plans and strategies in alignment with project objectives and requirements. 2. Assign tasks, set priorities, and provide and support to team members. 3. Review test results and provide feedback to team members. 4. Monitor and manage risks throughout the testing l |
| Prajyoti Suryawanshi | Test Engineer | 1. Understand customer requirements 2. Write Test scenarios, Test cases Executing the Test cases. 3. Performing root cause analysis to identify underlying issues. 4. Defect tracking and reporting. |

**Test Schedule**

Following is the test schedule for the project :

| **Task** | **Time Duration** |
| --- | --- |
| Test Plan creation | 18-12-2024 |
| Test Scenario creation | 19-12-2024 |
| Test case creation | 20-12-2024 |
| Test Case Execution | 21-12-2024 |
| Summary Report Submission | 21-12-2024 |

**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 Nykaa web application | Masai | 18-12-2024 |
| Test Case | Test Cases created for both functional testing and compatibility testing | Masai | 20-12-2024 |
| Defect Reports | Detailed description of the defects identified in different versions of application. | Masai | 21-12-2024 |

**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 need 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 (Nykaa)

**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.

**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.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 the entire testing process.

**Tools**

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

* X mind map Tool
* Google Drive
* Google Sheet
* Google Docs
* Github

**Risks and Mitigation plans:**

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

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

**Approvals**

Our company will send different types of document for Client Approval like below:

* + Test Plan
  + Test scenarios
  + Test Case
  + Test Case Execution
  + Summary Reports

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