**Test PLAN**

Project Name: TutorialsNinja Web Application

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# Overview

As part of the project, ‘TutorialsNinja’ has asked ‘Rishabh Software Private Limited’ to test few functionalities of ‘https://tutorialsninja.com/demo/’ web application.

This document serves as high level test planning document with details on the scope of the project, test strategy, test schedule and resource requirements, test deliverables and schedule.

# Scope

The scope of the project includes testing the following features of ‘https://tutorialsninja.com/demo/’ web application.

## Inclusions

* Register
* Log in
* Log out
* Forgot password
* Search
* Product Compare
* Product Display Page
* Add to cart
* Wish List
* Shopping Cart Page
* Currency
* Home Page
* Check out page
* My Account Page
* Order History Page
* Downloads Page
* Contact Us Page

From our understanding, we believe above functional areas will be tested.

## Test Environments

* Windows 11 – Chrome
* Windows 11 – Firefox
* Mac OS – Safari
* Linux Ubuntu OS – Firefox
* Android Mobile Devices – Chrome

## Exclusions

* All the features except that are mentioned under ‘Inclusions’
* Third Party Applications or Third Party Payment Gateways

# 

# Test Strategy

'Rishabh Software Private Limited’ has communicated with TutorialsNinja and has understood that we need to perform functional Testing for all the functionality which are mentioned in the above scope.

As part of Functional Testing, we are going to follow the below approach for testing this project:

Step#1 - Creation of Test Scenarios and Test Cases for the different functionalities that are in Scope.

* We will apply several Test Design Techniques while creating the Test Scenarios and Test cases:
* Equivalence Class Partitioning
* Boundary value analysis
* Decision Table Testing
* State Transition Testing
* Use Case Testing
* We will also use our expertise in creating the Test Scenarios and Test Cases by applying the below:
* Error Guessing
* Exploratory Testing
* We will prioritise the Test Cases

Step#2 - Our Testing process ,when we get the Application for Testing:

* Firstly, We will perform smoke Testing to check whether the different functionalities of the Application are working a high level.
* We will reject the build ,If the Smoke Testing fails and will wait for the static build before performing in-depth testing of the application functionality.
* Once we receive a stable build which passes Smoke Testing ,We will perform in-depth testing by using the above created Test Cases.
* Multiple test Resources will be testing the same Application on Multiple supported Test Environments simultaneously.
* We then report the bugs in the ‘Zoho’ Bug Tracking Tool and send you the defects found on that day in a status email at the end of the day.
* As part of the Testing , we will perform the below types of Testing:
* Smoke Testing and Sanity Testing
* Regression testing and Retesting
* Usability Testing ,UI Testing and Accessibility Testing
* We repeat Test Cycles until we get the quality product.

Step#3 – We will follow the below best practices to make our Testing better:

* Context Driven Testing – We will perform the testing based on the context of the Project.
* Shift Left Testing – we will perform testing from the development stages of the Project.
* Exploratory Testing – Using our expertise we will perform Exploratory Testing , apart from the normal execution of the Test Cases.
* End to End Flow Testing – We will test the end-to-end scenarios which involve multiple functionalities to simulates the end user flows.

# 

# Problem Tracking and Test Tracking Procedures

**Defect Reporting Procedure:**

During the test execution –

* Any deviation from expected behaviour by the application will be noted. If it can’t be reported as a defect, it’d be reported as an observation/issue or posed as a question.
* Any usability issues will also be reported.
* After discovery of a defect, it will be retested to verify reproducibility of the defect. Screenshots with steps to reproduce are documented.
* Every day, at the end of the test execution, defects encountered will be sent along with the observations.

Note:

* Defects will be documented in a word document.
* Test cases will be documented in an excel document.

# Roles/Responsibilities

|  |  |  |
| --- | --- | --- |
| Name | Role | Responsibilities |
| Rohan Gupta | Test Manager | * Escalations |
| Sheetal Akhud | Test Lead | * Create the Test Plan and get the client signoffs * Interact with the application, create and execute the test cases * Report defects * Coordinate the test execution. Verify validity of the defects being reported. * Submit daily issue updates and summary defect reports to the client. * Attend any meeting with client. |
| Dishant Patel | Senior Test Engineer | * Interact with the application * Create and Execute the Test cases. * Report defects |
| Sakshi Patel | Test Engineer | * Interact with the application * Execute the Test cases * Report defects. |

# Test Schedule

Following is the test schedule planned for the project –

|  |  |
| --- | --- |
| Task | Time Duration |
| * Creating Test Plan | April 8th, 2024 to April 10th, 2024 |
| * Test Scenarios and Test Cases Creation | April 11th, 2024 to April 15th, 2024 |
| * Test Case Execution | April 16th, 2024 to April 22nd, 2024 |
| * Summary Reports Submission | April 23nd, 2024 |

# Test Deliverables

The following are to be delivered to the client:

|  |  |  |  |
| --- | --- | --- | --- |
| Deliverables | Description | Responsible Owner | Target Completion Date |
| Test Plan | Details on the scope of the Project, test strategy, test schedule, resource requirements, test deliverables and schedule | Rishabh Software | April 9th, 2024 |
| Functional Test Cases | Test Cases created for the scope defined | Rishabh  Software | April 14th, 2024 |
| Defect Reports | Detailed description of the defects identified along with screenshots and steps to reproduce on a daily basis. | Rishabh Software | NA |
| Summary Reports | Summary Reports –  Bugs by Bug#,  Bugs by Functional Area and  Bugs by Priority | Rishabh Software | April 23rd, 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 or details about the Project

Exit Criteria :

* List of Requirements are explored and understood by the Testing team
* Doubts are cleared

**Test Planning**

Entry Criteria :

* Testable Requirements derived from the given Requirements Documents or Project details
* Doubts are cleared

Exit Criteria :

* Test Plan document(include Test Strategy) is signed-off by the Client ( TutorialsNinja )

**Test Designing**

Entry Criteria :

* Test Plan document is signed-off by the Client

Exit Criteria :

* Test scenarios and Test cases Documents are signed-off by the Client ( TutorialsNinja )

**Test Execution**

Entry Criteria :

* Test scenarios and Test cases Documents are signed-off by the Client
* Application is ready for 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

# Suspension and Resumption Criteria

Based on the Client decision , we will suspend and resume the Project.

We will ramp up and ramp down the resources as per Client needs

# Tools

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

* Zoho Bug Tracking Tool
* Mind map Tool ( Xmind)
* Lightshot Screenshot Tool
* Word and Excel documents

# Risk and Mitigations

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

**Risk: Non-Availability of a Resource**

**Mitigation : Backup Resource Planning**

**Risk: Build URL is not working**

**Mitigation : Resources will work on other tasks**

**Risk: Less time for Testing**

**Mitigation : Rishabh Software will ramp up the resources based on the client needs dynamically**

# Approvals

Rishabh Software send different types of documents for Client approval like below:

* Test Plan
* Test Scenarios
* Test Cases
* Reports

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