Test PLAN

Project Name: TutorialsNinja Web Application

Prepared by: Tech World

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# Overview

As part of the project, ‘TutorialsNinja’ has asked Tech World to test few functionalities of ‘http://www.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.

# Objective

To ensure that the testing process is thorough and complete and that all necessary tests are conducted systematically and coordinated.

# Effort Estimation

Total number of engineers required : 50

Total time required : 3 month

Total cost required : 1200$

# Scope

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

## Inclusions

* Register
* Login
* Logout
* Forgot password
* Search
* Product compare
* Product display page
* Add to cart
* Wish list
* Shopping cart page
* Currencies
* Home page
* Checkout page
* My account page
* Order history page
* Downloads page
* Contact us page
* Menu options
* Footer options
* Category pages

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

## Exclusions

* All the features except that are mentioned under ‘Inclusions’
* Third party application or third party payment gateways

## Approach

‘Tech World’ has communicated with ‘TutorialsNinja’ and has understood that we need to perform Functional Testing of all the functionalities mentioned in the above Scope section.

As part of Functionality 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 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 and important functionalities of the Application are working at high level.
* We reject the build, if the above Smoke Testing fails and will wait for the stable build before performing in depth testing of the functionalities.
* Once we receive a stable build, which passes Smoke Testing, we will perform in depth testing 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 the 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 the 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 involves multiple functionalities to simulate the end user flows.

## Assumption

The following are the list of assumptions that we have made:

1) Availability of the Resources

2) Build URL is working

3) Sufficient time for Testing

# Risks and Mitigation Plan

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

Risk: Non-Availability of a Resources

Mitigation: Backup Resource Planning

Risk: Build URL is not working

Mitigation: Resources will work on other tasks

Risk: Less time for Testing

Mitigation: Tech World will ramp up the resources based on the Client needs dynamically

# Test Methodology

The following are the types of testing that we are going to conduct in future :

* + Smoke Testing and Sanity Testing
  + Functionality Testing and System Testing
  + Regression Testing and Retesting
  + Usability Testing, UI Testing and Accessibility Testing
  + Exploratory Testing

# Test Schedule

Following is the test schedule planned for the project –

|  |  |
| --- | --- |
| Task | Time Duration |
| * System Study | Feb 18th ,2023 to Feb 20th ,2023 |
| * Creating Test Plan | Feb 21st ,2023 to Feb 24th ,2023 |
| * Test Scenarios and Test Cases Creation | Feb 25th ,2023 to Mar 05th ,2023 |
| * Traceability Matrix Creation | Mar 06th ,2023 to Mar 8th, 2023 |
| * Test Case Execution | Mar 09th ,2020 to Apr 09th ,2023 |
| * Summary Reports Submission | Apr 10th ,2023 |
| * Release | Apr 15th ,2023 |

## Test Environments

Following are the environments where in we are going to conduct testing :

* Windows 11 – Chrome
* Windows 11 – Firefox
* Windows 11 – IE 11
* Windows 11 – Edge
* Mac OS – Safari
* Linus Ubuntu OS – Firefox
* Android mobile devices – Chrome
* iPhone device - Safari

# Defect Tracking

**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.

Tools :

* Zoho Bug Tracking Tool

# 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 | Tech World | Feb 24th, 2023 |
| Test Cases | Test Cases created for the scope defined | Tech World | Mar 05th, 2023 |
| Traceability Matrix | Map or traces between the requirements and test cases | Tech World | Mar 08th, 2023 |
| Defect Reports | Detailed description of the defects identified along with screenshots and steps to reproduce on a daily basis. | Tech World | N/A |
| Summary Reports | Summary Reports –  Bugs by Bug#,  Bugs by Functional Area and  Bugs by Priority | Tech World | Apr 10th, 2023 |
| Release Note | Detailed list of open defects present, platforms in which software is tested or not tested, fixed defects and installation steps | Tech World | Apr 15th ,2023 |

# 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 the 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 (Includes 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 are signed off by the Client

**Test Execution**

Entry Criteria:

* Test Scenarios and Test Cases 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

# Test Stop Criteria

The below are the test stop criteria:

* Software quality is very good
* Software quality is very bad

# Roles/Responsibilities

|  |  |  |
| --- | --- | --- |
| Name | Role | Responsibilities |
| Manoj Tiwari | Test Manager | * Escalations |
| Sabnam Parwin | 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. |
| Mahesh Mehtha | Senior Test Engineer | * Interact with the application * Create and Execute the Test cases. * Report defects |
| Sajid Khan | Test Engineer | * Interact with the application * Execute the Test cases. * Report defects |