Test Plan

Truck Club Business Webpage

Version 1.0

Revision and Signoff

Document History

Name	Date	Reason For Changes	Version
Marian Dadzie	6/30/18		1.0

Approvers List

Name	Role	Approver / Reviewer	Date

Reference Documents

Version	Date	Document Name	Owner
1.0		UI Design Specs	
1.0		Technical Design Specs	
1.0		Acceptance Criteria	

Table of Contents

1. Introduction

This document would detail out the testing plan, approach and scenarios of verifying the quality of Truck Club Business webpage.

2. Objective

The objective of this document is to layout the detailed plan on what is required to performance a successful quality business webpage.

3. Scope

The test scope will focus on the (https://www.trunkclub.com/business) webpage. Verify the features available on the webpage are displayed properly and working as per the requirements.

4. Test Strategy

Testing will cover both Manual and Automation. This strategy will influence tasks related to feasibility analysis, automation framework, test cases and script development and test execution.

4.1. The Key Objectives are:

i. Determine the right tool
ii. Identify the scenarios/test cases for Automation
iii. Determine and develop the framework architecture
iv. Develop re-usable scripts
v. Execution and result generation
vi. Maintenance of the scripts (Result-oriented approach)

4.2. Areas of Testing are:

i. UI / Usability Testing
ii. Functional & User Acceptance Testing
iii. Cross Browser and Broken Links Testing
iv. System/Integration Testing
v. Security Testing
vi. Regression Testing
vii. Load and Performance Testing

5.   Entry Criteria
Testing Life Cycle begins when below conditions are met:
  i.   All related documentation are complete
  ii.   All big features of webpage are in working form
  iii. Web UI is in a state where testing can begin
  iv.   Server and Database side implementation are complete

6.   Exit Criteria
Testing Life Cycle ends when below conditions are met:
  i.   All major test cases are passed
  ii.   Completed full functional test coverage
  iii. All priority defects have been identified, fixed, verified and closed
  iv.   Regression test suite is complete

7.   Test Environment
Application will be tested with below setup
  i.   Web Browser – Mainly Chrome for in-depth testing; Firefox, Safari and IE will be used for main features
  ii.   Database
  iii. Mobile devices - IOS & Android
  iv.   Production site (post-production test)
  v.   Jira – Defect Management

7.1.   For the Automation Testing Tools:

Testing Tool	Purpose
Selenium	For UI Automation
Python	Coding language
Unix	Scripting commands
PyCharm CE	IDE to script development
Jenkins	CI Server
Locust	Performance Testing

8. Resources

One QA resource will be working on this page, testing new features and adding to the regression test suite. In addition, QA will to working on the load and performance testing, Jr Developer or another QA resource will be requested for assistance if and when needed.

9. Deliverables

The key testing deliverables:
    i.   Test plan and Strategy
    ii.   Automation Framework /Architectural design
    iii. Manual Testing
    iv.   Automation Testing
    v.   Test Report and Sign Off

10. Risk and Contingency Plans

Key risks identified and their associated contingency plans:

ID	Rank	Risk Statement	Probability	Impact	Mitigation
1	1	Tool Issues – If the tool cannot handle the feature	Hi	Med	Find alternate solution or move it to manual test
2	2	Server related Issues	Med	Hi	Get support from DevOps team
3	3	Webpage not supportive of Automation	Med	Hi	Get support from Dev. team for integrating elements for automation

11. Test Coverage

Test cases are dynamic therefore will be added and improved upon through out the STLC

- **Functional**
  - Verify user can successfully open the business webpage directly in a browser

  - Verify app allows user to navigate webpage without Signing into the application

  - Verify user is navigated to the Log In page successfully after clicking on Sign In Link

  - Verify all click-through text on webpage are clickable and take user to appropriate content e.g. Reward options take user to Endless rewards section

  - Verify user is able to submit form via Contact Us button and Contact link

  - Verify required text-fields are indicated on Contact Us form

  - Verify Privacy Policy hyperlink on Submit Form opens to another webpage

  - Verify page displays confirmation message after user submits form

  - Verify User is able to navigate to social media sites via embedded icons

- **Usability**
  - Verify page layout, fonts, colors, alignments and positions of images as per requirement

  - Verify each page content is free from any spelling or grammatical errors

  - Verify previous page is displayed with user navigates back and forward using the back and forward arrows

  - Verify mouse right click functionality works on page e.g. Reload, Print

  - Verify system is responsive and readable for all screen sizes, no horizontal scrolling.

  - Verify system navigates to appropriate page when user clicks any click-through text on Header e.g. Blog

  - Verify system navigates to appropriate content on same page when user clicks any click-through text on sub-Header e.g. How It Works, Studies

  - Verify system navigates to appropriate page when user clicks any click-through text on Footer e.g. Terms

  - Verify system navigates to appropriate page when user clicks any click-through text on sub-Footer e.g. Contact Us.

  - Verify Header and Footer Content are consistent as per requirement

- **Security**
  - Verify previous submitted data do not displayed after user clears cookies

  - Verify previous pages using the back tap do not display after user clears cookies

  - Verify SQL injection and XSS attacks

  - Verify session timeout functionality

- **Cross-browser testing**
  - Verify page compatibility in the older versions of specified Browsers

  - Verify page compatibility in the current versions of specified Browsers

- **Regression**
  - Verify all previous functionality still works after build updates and bug fixes

  - Verify page compatibility on specified Browsers after build update and bug fixes

- **Performance**
  - Verify how page load with different internet speeds, slow browser, slow operating system

  - Verify system is stable and scalable when under different load conditions

  - Verify response time after user clicks on a click-through text that opens to another webpage

12.   Automation Coverage

a. Test scenarios will be automated in order to achieve robust regression testing, continuous integration and delivery. Automation coverage will be begin with:

- **UI intensive – Phase 1**
  - Usability cases

- **Repetitive cases – Phase 2**
  - Functionality cases
  - Regression case

- **Major functionality cases – Phase 3**
  - Security cases

- **Most used cases – Phase 4**
  - Performance cases

b. Within the automated test framework, test cases will be grouped into:
  - Sanity,
  - Smoke,
  - Functional,
  - Regression

12.1. What would happen if" scenarios

a. Test cases includes:

- **Alternative scenarios**
  - Verify all textbox, and buttons can be accessed using the keyboard shortcuts

  - Verify webpage tracks traffic via designated Analytics Tool

  - Verify all hyperlinks open on another tab where applicable

- Verify user can access the homepage on webpage e.g. Truck Club logo

- Verify clink-through links changes color after user hovers on Text as per specification

- **Edge cases**
  - Verify that the webpage does not crash when user uses the keyboard shortcut to close browser

  - Verify all webpage content can be printed without cutting off and properly aligned

- **Negative cases**
  - Verify proper error message is displayed when user tries to submit an empty Contact Us form

  - Verify that if any functionality is not working, system will display proper error message & HTTP code in API