**Table of contents**

**1.0 INTRODUCTION ---------------------------------------------------------------------------------------------- 3**

**2.0 SCOPE ------------------------------------------------------------------------------------------------------------ 3**

**2.1 Functions to be automated ------------------------------------------------------------------------------- 3**

**2.2 Functions not to be automated ------------------------------------------------------------------------- 3**

**3.0 PRIMARY OBJECTIVES --------------------------------------------------------------------------------------- 3**

**3.1 Secondary Objectives -------------------------------------------------------------------------------------- 3**

**4.0 TEST APPROACH --------------------------------------------------------------------------------------------- 3**

**5.0 ROLES AND RESPONSIBILITIES ---------------------------------------------------------------------------- 4**

**6.0 ENTRY AND EXIT CRITERIA -------------------------------------------------------------------------------- 4**

**6.1 Entry Criteria ------------------------------------------------------------------------------------------------- 4**

**6.2 Exit criteria ---------------------------------------------------------------------------------------------------- 4**

**7.0 TEST SUSPENSION AND RESUMPTION CRITERIA ---------------------------------------------------- 4**

**7.1 Suspension criteria ------------------------------------------------------------------------------------------ 4**

**7.2 Resumption criteria ----------------------------------------------------------------------------------------- 4**

**8.0 TEST STRATEGY ---------------------------------------------------------------------------------------------- 4**

**8.1 Candidate role in the test process ----------------------------------------------------------------------- 4**

**8.2 Deliverables --------------------------------------------------------------------------------------------------- 4**

**9.0 DEFECT LIFE Cycle -------------------------------------------------------------------------------------------- 4**

**10.0 TESTING Types ------------------------------------------------------------------------------------------------ 4**

**11.0 DEFECT Severity AND PRIORITY DEFINITION --------------------------------------------------------- 4**

**11.1 Severity List -------------------------------------------------------------------------------------------------- 4**

**11.2 Priority List --------------------------------------------------------------------------------------------------- 4**

**12.0 TOOLS AND ENVIRONMENT REQUIREMENTS ----------------------------------------------------- 5**

**12.1 Testing tools ------------------------------------------------------------------------------------------------- 5**

**13.0 CONFIGURATION MANAGEMENT --------------------------------------------------------------------- 5**

**13.1 Test Environment ------------------------------------------------------------------------------------------- 5**

**14.0 TEST SCHEDULE ---------------------------------------------------------------------------------------------- 5**

**15.0 APPROVALS ------------------------------------------------------------------------------------------------- 5**

**Test Plan**

**Project:**

**Challenging DOM Web Application**

**Nurudeen Aliyu**

**v0.1**

**25th August 2021**

**Artefact Revision History**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** | **Reviewer** | **Approver** |
| 25/08/2021 | 0.1 | Test Plan was created | Nurudeen Aliyu |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

**1.0 Introduction**

This document describes the approaches and methodologies that will apply to the testing of the ‘Challenging DOM’ web application (<http://the-internet.herokuapp.com/challenging_dom>). The document includes the objectives, test responsibilities, entry and exit criteria, scope, schedule major milestones. The document clearly identifies what the test deliverables will be, and what is considered in and out of scope.

**2.0 Scope**

The Test Plan targets the GUI (Graphical User Interface), automating various parts of the web page including buttons, table elements, canvas element, and links.

**2.1 Functions to be automated**

* Page title
* Page header
* Hyperlinks
* Buttons
* Table elements
* Canvas element

**2.2 Functions not to be automated**

No other than listed above in section 2.1

**3.0 Primary Objectives**

The primary objectives is to assure that the Test Automation meets the full requirements stated.

Changes or additions to the requirements artefact will be recorded and tested at the highest level of quality; within the remaining time of the project and within the ability of the Technical Engineer (the candidate).

**3.1 Secondary Objectives**

The secondary objectives of the Test Automation is to identify and automate all testable functionalities within the Web Application. This however requires careful and methodological testing of the web application to ensure all areas of the system are scrutinized and automated appropriately, using the best locators for every element on the web page.

**4.0 Test Approach**

The approach used is analytical, where an analysis of the web application forms the basis for planning, test estimation and designing tests. Test cases will be created during exploratory testing. All test types are determined in the Test Strategy. The candidate also used experience-based testing, error guessing and intuitions.

**5.0 Roles and Responsibilities**

|  |  |
| --- | --- |
| **Role** | **Responsibilities** |
| Senior Technical Engineer | Interview the candidate, review test and documentation |
| Technical Lead | Interview the candidate, review test and documentation |
| Candidate | * Creation of the document and tests * Test automation |

**6.0 Entry and Exit Criteria**

**6.1 Entry Criteria**

* Test software must be successfully installed, configured, and functioning properly
* All necessary documentation, design and requirements information must be available
* All test scenarios have been reviewed and signed off by the technical lead

**6.2 Exit criteria**

* A certain number of requirements have been achieved

**7.0 Test Suspension and Resumption Criteria**

**7.1 Suspension criteria**

* The web application contains many defects that seriously limit testing progress
* Where there is a high severity defect (show stopper) on the web application, which makes testing impossible to continue.
* Significant change in requirement
* Software/hardware failure
* Assigned resources are not available

**7.2 Resumption criteria**

Resumption will occur when the problem(s) that caused the suspension have been resolved.

**8.0 Test Strategy**

**8.1 Candidate role in the test process**

* Understand the requirements
* Prepare test cases
* Review test cases
* Create test data
* Execute test cases

**8.2 Deliverables**

* This Test Plan
* Test Automation code

**9.0 Defect Life cycle**

**10.0 Testing types**

**11.0 Defect severity and Priority definition**

**11.1 Severity List**

**11.2 Priority List**

**12.0 Tools and Environment requirements**

Testing will be perform in windows 10, with Google Chrome version 91

**12.1 Testing tools**

* IntelliJ IDE
* Selenium WebDriver, Java programing language, Junit, Cucumber
* Chrome browser
* Chrome driver executable

**13.0 Configuration management**

**13.1 Test Environment**

**14.0 Test Schedule**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Task** | **Start** | **Finish** | **Effort** | **Comments** |
| Requirement document review |  |  |  |  |
| Test planning |  |  |  |  |
| Create Test cases |  |  |  |  |

**15.0 Approvals**

Tests and documentation will be reviewed during the interview on Friday 27th August 2021.

|  |  |  |
| --- | --- | --- |
|  | **Senior Technical Engineer** | **Technical Lead** |
| Name |  |  |
| Signature |  |  |