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Test Plan

Project:

Challenging DOM Web Application

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v0.1
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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.

1.1

Purpose

The purpose of the Automation Test Plan is acquire all the necessary information to plan and control the test effort for the given web application.

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

2.3 Assumptions

- It is assumed that the web application is stable enough for test execution to commence
- It is assumed that all required test tools are available
- It is assumed that test environment setup is done
- It assumed that assumed that there are defined features to be automated, and test scenarios are designed and ready for execution
- It is assumed that the candidate has all the required knowledge and skills to perform this task
- It is assumed that the candidate has enough time to complete this task

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	<ul style="list-style-type: none">- 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

Deliverables	Author	Reviewer
Test plan		
Test Execution report		
Test completion report		
Test source code		

9.0 Defect Life cycle

10.0 Testing types

11.0 Defect severity and Priority definition

12.0 Tools and Environment requirements

Testing will be performed in Windows 10, with Google Chrome browser - version 91

12.1 Testing tools

- IntelliJ IDE
- Selenium WebDriver, Java programming 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		