Test Report – Web Application

Report Overview:

This document presents the results of the functional testing conducted on the web application. A total of 40 test cases were executed, covering various features, functionalities, and user interactions.

Total Test Cases	Passed	Failed	Pass Percentage
41	15	26	36.5%

The test cases in the report are categorized according to the functionality under test into 8 categories which are:

A. Main Pages Content Checking
B. Navigation – Top Navbar (Home, Company, Products, Contact)
C. Navigation – Sidebar Product Categories
D. Product Page Navigation Error Test
E. Printable Product List Button Test
F. Logo Navigation Functionality
G. Search Bar Functionality
H. Email Hyperlink Functionality

A. Main Pages Content Checking

The purpose of this test is to verify that the website's main pages (Home, Company, Products, and Contact) load successfully with all expected elements. These elements include the logo, navigation bar, sidebar (if applicable), search bar, and main content specific to each page.
This falls under Black Box Functional Testing.

Scen #	Scenario Description	Test Data	Pre-Conditions	Test Conditions / Steps	Expected Results / Comments	Post-Conditions	Actual Results	Pass/ Fail
TC1	Load Home Page	N/A	User has a supported browser with internet access.	1. Enter the website URL in the browser address bar. 2. Press Enter and wait for the page to load.	Home page displays logo, top nav (Home, Company, Products, Contact), sidebar categories, search bar, and main content image.	User remains on Home page but main content not fully loaded.	Header/nav/ sidebar load, but main content shows "Unsupported Plug-in"	**FAIL**
TC2	Load Company Page	N/A	User is on the website with internet access.	1. Click "Company" in the top navigation bar.	Company page displays logo, nav bar, sidebar, company-related paragraph, and company image.	User remains on Company page.	Company page displayed with company-related paragraph and photo appearing properly.	**PASS**

Testing Type Details: UI Testing
Tester Name: Ali Yasser Ali
Test Environment Details: Testing using Nightwatch

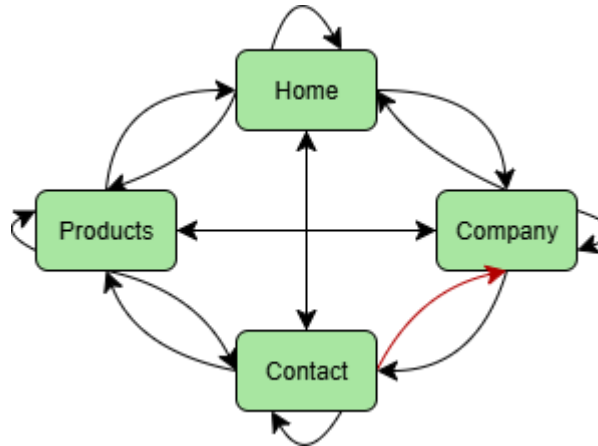| Scen #	Scenario Description	Test Data	Pre-Conditions	Test Conditions / Steps	Expected Results / Comments	Post-Conditions	Actual Results	Pass/ Fail
TC3	Load Products Page	N/A	User is on the website with internet access.	1. Click "Products" in the top navigation bar.	Products page displays logo, nav bar, sidebar, and product-related content (product categories and items).	User remains on Products page.	Products page displayed with Products - related paragraph and photo appearing properly.	**PASS**
TC4	Load Contact Page	N/A	User is on the website with internet access.	1. Click "Contact" in the top navigation bar.	Contact page displays logo, nav bar, sidebar, and company contact information.	User remains on Contact page.	Contact page displayed with contact information visible.	**PASS**

B. Navigation – Top Navbar (Home, Company, Products, Contact)

The navigation tests were designed using a Black Box Testing approach, specifically State Transition Testing.

- Each page in the top navigation bar (Home, Company, Products, Contact) is treated as a state.
- Clicking a navigation link represents a transition between states.
- The objective is to verify that all valid transitions are handled correctly, and that invalid or broken transitions are identified.
- Expected results are based on the design specification: each navigation click should load the corresponding page with the correct header, main content, and sidebar categories.

The state transition diagram below illustrates the navigation flow tested:

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Tester Name: Ali Yasser Ali
Test Environment Details: Testing using Nightwatch

Scen #	Scenario Description	Test Data	Pre-Conditions	Test Conditions / Steps	Expected Results / Comments	Post-Conditions	Actual Results	Pass/ Fail
TC5	Home → Company	N/A	User is on the Home page with internet access and site loaded	1. Locate the top navigation bar 2. Click "Company"	Company page loads successfully with correct header, content, and sidebar categories visible	User is on the Company page	Company page displayed correctly	**PASS**
TC6	Home → Products	N/A	User is on the Home page with internet access and site loaded	1. Locate the top navigation bar 2. Click "Products"	Products page loads successfully with correct header, main content, and sidebar categories visible	User is on the Products page	Products page displayed correctly	**PASS**
TC7	Home → Contact	N/A	User is on the Home page with internet access and site loaded	1. Locate the top navigation bar 2. Click "Contact"	Contact page loads successfully with correct header, main content, and sidebar categories visible	User is on the Contact page	Contact page displayed correctly	**PASS**
TC8	Home → Home	N/A	User is on the Home page with internet access and site loaded	1. Locate the top navigation bar 2. Click "Home" while already on Home page	Home page should reload	User remains on the Home page, no reload occurs	Nothing happens, page does not reload	**FAIL**
TC9	Company → Home	N/A	User is on the Company page with internet access and site loaded	1. Locate the top navigation bar 2. Click "Home"	Home page loads successfully with correct header, main content, and sidebar categories	User is on the Home page	Home page displayed correctly	**PASS**

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Scen #	Scenario Description	Test Data	Pre-Conditions	Test Conditions / Steps	Expected Results / Comments	Post-Conditions	Actual Results	Pass/ Fail
TC10	Company → Products	N/A	User is on the Company page with internet access and site loaded	1. Locate the top navigation bar 2. Click "Products"	Products page loads successfully with correct header, main content, and sidebar categories visible	User is on the Products page	Products page displayed correctly	**PASS**
TC11	Company → Contact	N/A	User is on the Company page with internet access and site loaded	1. Locate the top navigation bar 2. Click "Contact"	Contact page loads successfully with correct header, main content, and sidebar categories visible	User is on the Contact page	Contact page displayed correctly	**PASS**
TC12	Company → Company	N/A	User is on the Company page with internet access and site loaded	1. Locate the top navigation bar 2. Click "Company" while already on Company page	Company page should reload	User remains on the Company page, no reload occurs	Nothing happens, page does not reload	**FAIL**
TC13	Products → Home	N/A	User is on the Products page with internet access and site loaded	1. Locate the top navigation bar 2. Click "Home"	Home page loads successfully with correct header, main content, and sidebar categories visible	User is on the Home page	Home page displayed correctly	**PASS**
TC14	Products → Company	N/A	User is on the Products page with internet access and site loaded	1. Locate the top navigation bar 2. Click "Company"	Company page loads successfully with correct header, main content, and sidebar categories visible	User is on the Company page	Company page displayed correctly	**PASS**

Testing Type Details: UI Testing
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Test Environment Details: Testing using Nightwatch

Scen #	Scenario Description	Test Data	Pre-Conditions	Test Conditions / Steps	Expected Results / Comments	Post-Conditions	Actual Results	Pass/ Fail
TC15	Products → Contact	N/A	User is on the Products page with internet access and site loaded	1. Locate the top navigation bar 2. Click "Contact"	Contact page loads successfully with correct header, main content, and sidebar categories visible	User is on the Contact page	Contact page displayed correctly	**PASS**
TC16	Products → Products	N/A	User is on the Products page with internet access and site loaded	1. Locate the top navigation bar 2. Click "Products" while already on Products page	Products page should reload	User remains on the Products page, no reload occurs	Nothing happens, page does not reload	**FAIL**
TC17	Contact → Home	N/A	User is on the Contact page with internet access and site loaded	1. Locate the top navigation bar 2. Click "Home"	Home page loads successfully with correct header, main content, and sidebar categories visible	User is on the Home page	Home page displayed correctly	**PASS**
TC18	Contact → Company	N/A	User is on the Contact page with internet access and site loaded	1. Locate the top navigation bar 2. Click "Company"	Company page loads successfully with correct header, main content, and sidebar categories visible	User remains stuck on an error page and cannot access the Company page	Navigation fails. A white screen is displayed with 403 Forbidden Access Denied error message.	**FAIL**

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Scen #	Scenario Description	Test Data	Pre-Conditions	Test Conditions / Steps	Expected Results / Comments	Post-Conditions	Actual Results	Pass/ Fail
TC19	Contact → Products	N/A	User is on the Contact page with internet access and site loaded	1. Locate the top navigation bar 2. Click "Products"	Products page loads successfully with correct header, main content, and sidebar categories visible	User is on the Products page	Products page displayed correctly	**PASS**
TC20	Contact → Contact	N/A	User is on the Contact page with internet access and site loaded	1. Locate the top navigation bar 2. Click "Contact" while already on Contact page	Contact page should reload	User remains on the Contact page with refreshed content	Contact page reloaded successfully	**PASS**

C. Navigation – Sidebar Product Categories

These test cases validate navigation through the sidebar links, where each product category (e.g., Adhesives, Lubricants, Surfactants) should lead to its dedicated product page.

Scen #	Scenario Description	Test Data	Pre-Conditions	Test Conditions / Steps	Expected Results / Comments	Post-Conditions	Actual Results	Pass/ Fail
TC21	Sidebar: Adhesives (from Home)	N/A	User is on the Home page with internet access and site loaded	1. Locate the sidebar menu 2. Click "Adhesives"	Adhesives page loads successfully with adhesive-related content, correct header, and sidebar visible	User is on the Adhesives page	Redirected to the same generic Products content page (not adhesives)	**FAIL**
TC22	Sidebar: Lubricants (from Home)	N/A	User is on the Home page with internet access and site loaded	1. Locate the sidebar menu 2. Click " Lubricants and Greases "	Lubricants page loads successfully with adhesive-related content, correct header, and sidebar visible	User is on the Lubricants page	Redirected to the same generic Products content page not (not lubricants)	**FAIL**

TC23	Sidebar: Surfactants (from Home)	N/A	User is on the Home page with internet access and site loaded	1. Locate the sidebar menu 2. Click " Chemicals: Surfactants"	Surfactants page loads successfully with adhesive-related content, correct header, and sidebar visible	User is on the Surfactants page	Redirected to the same generic Products content page not (not Surfactants)	**FAIL**
TC24	Sidebar: Textile (from Company)	N/A	User is on the Company page with internet access and site loaded	1. Locate the sidebar menu 2. Click " Chemicals: Textile "	Textile page loads successfully with adhesive-related content, correct header, and sidebar visible	User is on the Textile page	Redirected to the same generic Products content page not (not Textile)	**FAIL**
TC25	Sidebar: Plastics (from Company)	N/A	User is on the Company page with internet access and site loaded	1. Locate the sidebar menu 2. Click "Plastics: Additives"	Plastics page loads successfully with adhesive-related content, correct header, and sidebar visible	User is on the Plastics page	Redirected to the same generic Products content page not (not Plastics)	**FAIL**
TC26	Sidebar: Rubber (from Company)	N/A	User is on the Company page with internet access and site loaded	1. Locate the sidebar menu 2. Click " Rubber "	Rubber page loads successfully with adhesive-related content, correct header, and sidebar visible	User is on the Rubber page	Redirected to the same generic Products content page not (not Rubber)	**FAIL**
TC27	Sidebar: Waxes (from Contact)	N/A	User is on the Contact page with internet access and site loaded	1. Locate the sidebar menu 2. Click " Waxes "	Waxes page loads successfully with adhesive-related content, correct header, and sidebar visible	User is on the Waxes page	Redirected to the same generic Products content page not	**FAIL**

TC28	Sidebar: Coatings (from Contact)	N/A	User is on the Contact page with internet access and site loaded	1. Locate the sidebar menu 2. Click " Coatings and Inks"	Coatings page loads successfully with adhesive-related content, correct header, and sidebar visible	User is on the Coatings page	Redirected to the same generic Products content page not (not Coatings)	**FAIL**
TC29	Sidebar: Concrete (from Contact)	N/A	User is on the Contact page with internet access and site loaded	1. Locate the sidebar menu 2. Click "Concrete Admixtures"	Concrete page loads successfully with adhesive-related content, correct header, and sidebar visible	User is on the Concrete page	Redirected to the same generic Products content page not (not Concrete)	**FAIL**
TC30	Sidebar: Food (from Products)	N/A	User is on the Products page with internet access and site loaded	1. Locate the sidebar menu 2. Click "Food Ingredients"	Food page loads successfully with adhesive-related content, correct header, and sidebar visible	User is on the Food page	Redirected to the same generic Products content page not (not Food)	**FAIL**
TC31	Sidebar: Supplements (from Products)	N/A	User is on the Products page with internet access and site loaded	1. Locate the sidebar menu 2. Click Nutritional Supplements"	Supplements page loads successfully with adhesive-related content, correct header, and sidebar visible	User is on the Supplements page	Redirected to the same generic Products content page not (not Supplements)	**FAIL**
TC32	Sidebar: Pharma (from Products)	N/A	User is on the Products page with internet access and site loaded	1. Locate the sidebar menu 2. Click "Pharmaceuticals"	Pharma page loads successfully with adhesive-related content, correct header, and sidebar visible	User is on the Pharma page	Redirected to the same generic Products content page not	**FAIL**

TC33	Sidebar: Personal Care (from Contact)	N/A	User is on the Contact page with internet access and site loaded	1. Locate the sidebar menu 2. Click "Personal Care"	Personal Care page loads successfully with adhesive-related content, correct header, and sidebar visible	User is on the Personal Care page	Redirected to the same generic Products content page not (not Personal Care)	**FAIL**
TC34	Sidebar: Soaps (from Contact)	N/A	User is on the Contact page with internet access and site loaded	1. Locate the sidebar menu 2. Click "Soaps and Detergents"	Soaps page loads successfully with adhesive-related content, correct header, and sidebar visible	User is on the Soaps page	Redirected to the same generic Products content page not (not Soaps)	**FAIL**

D. Product Page Navigation Error Test

This test case category verifies the behavior of the website when navigating from a selected product page (from the side bar) to other main pages (Home, Company, Contact). Using the **Error Guessing** technique, we anticipate potential issues such as access denial, broken links, or unexpected 403 errors. The purpose of these tests is to ensure that users can freely navigate between pages without encountering access errors after selecting a product.

Scen #	Scenario Description	Test Data	Pre-Conditions	Test Conditions / Steps	Expected Results / Comments	Post-Conditions	Actual Results	Pass/ Fail
TC35	Navigation from Product Page	N/A	Any product page is loaded (via sidebar selection)	1. Select any product from the sidebar 2. From the product page, attempt to navigate to Home, Company, or Contact page using the top navigation bar	User is able to navigate to the selected page without errors	Navigation successful and user stays within website	403 Forbidden Access Denied error displayed instead of navigating to the selected page	**FAIL**

E. Printable Product List Button Test

This test case verifies the functionality of the "**Printable Product List**" button available on the website. The button is expected to generate and provide access to a PDF containing the full product list. Using **the Error Guessing technique**, we anticipate that issues such as broken links, permission errors, or missing files may occur. Therefore, this test specifically checks whether the PDF opens/downloads correctly when the button is clicked.

Scen #	Scenario Description	Test Data	Pre-Conditions	Test Conditions / Steps	Expected Results / Comments	Post-Conditions	Actual Results	Pass/ Fail
TC36	Printable Product List Button	N/A	Any page loaded (Home – Company – Products – Contact)	1. Locate the sidebar menu 2. Click the "Printable Product List" button	A PDF of the full product list opens/downloads successfully	Product list PDF is available and accessible to the user	XML error page displayed with message: AccessDenied instead of opening/downloading the PDF	**FAIL**

F. Logo Navigation Functionality

This set of test cases verifies the functionality of the website logo as a navigation element. According to standard web design requirements, clicking the logo should return the user to the Home Page, regardless of the page from which it is clicked. Using **Requirement-Based Testing**, we validate this expected behavior. The observed failures indicate that the logo does not perform the navigation as required.

Scen #	Scenario Description	Test Data	Pre-Conditions	Test Conditions / Steps	Expected Results / Comments	Post-Conditions	Actual Results	Pass/ Fail
TC37	Logo Navigation (from Home)	N/A	User is on the Contact page with internet access and site loaded	1. Click the website logo	Home Page reloads successfully	User remains on Home Page	Nothing happens when logo is clicked	**FAIL**
TC38	Logo Navigation (from Company)	N/A	User is on the Company page with internet access and site loaded	1. Click the website logo	User is redirected to the Home Page	User is on the Home Page	Nothing happens when logo is clicked	**FAIL**

G. Search Bar Functionality

This set of test cases verifies the **Search Bar** functionality on the website. The search field is expected to accept user input and return appropriate search results. Using **Boundary Value Testing**, both empty input and normal input scenarios are considered. This ensures that the search feature behaves correctly under typical and edge-case conditions.

Scen #	Scenario Description	Test Data	Pre-Conditions	Test Conditions / Steps	Expected Results / Comments	Post-Conditions	Actual Results	Pass/Fail
TC39	Search Field Visible	Enter text "Test"	Any page loaded	1. Focus on Search bar 2. Type "Test"	Search field accepts input normally	Search field accepts input	Must delete placeholder text first	**FAIL**
TC40	Search Submission	Enter "Chemicals"	Any page loaded	1. Type "Chemicals" into Search bar 2. Press Enter	Results page is shown with matching entries	Results page shown	Nothing happens when Enter is pressed	**FAIL**

H. Email Hyperlink Functionality

This test case verifies the **Email hyperlink** available on the Contact page. The purpose of this link is to open the user's default email client and pre-fill the **"To" field** with a valid company email address. This falls under **Error Guessing Testing**, since hyperlinks are often prone to issues like broken links, incorrect addresses, or failure to trigger the correct application.

Scen #	Scenario Description	Test Data	Pre-Conditions	Test Conditions / Steps	Expected Results / Comments	Post-Conditions	Actual Results	Pass/ Fail
TC41	Contact Page Email Hyperlink	N/A	User is on the Contact page with internet access and a configured default email client (e.g., Outlook, Gmail, Apple Mail).	1. Locate and click the "email" hyperlink on the Contact page.	Default email client opens with a **new message window** and the **"To" field pre-filled** with the company's valid email address.	User remains in their email client ready to send the message.	Email hyperlink works correctly and opens new email draft with "To" field pre-filled.	**PASS**