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**1. Objective**

**To verify the functionalities of the website, including homepage loading, search functionality, and the contact page form. The tests will include both positive and negative scenarios to ensure system stability and reliability.**

**2. Test Environment Setup**

**Browser Support:** Chrome, Firefox, Safari, Edge

**Operating System:** Windows /Linux/ Mac

**URL**: <https://www.saucedemo.com/v1/>

**Device**: Deskstop, Tablet, Mobile

**Tools Used:** Selenium(for automation), Postman (if API), Manual Testing

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**Framework Setup**:

* Install dependencies (e.g., Selenium-java ,Apache POI, Extent Report, TestNG, npm install cypress)
* Add configuration files (pytest.ini, cypress.config.js etc.)

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**3. Test Scenarios & Test Cases**

**Scenario 1: Homepage Loads Successfully**

**Positive Test Case**

| **Test Case ID** | **TC-HOME-01** |
| --- | --- |
| **Description** | **Verify that the homepage loads completely without errors and display all elements on webpage.** |
| **Type** | **Positive** |
| **Steps** | **1. Open browser → 2. Navigate to Homepage URL** |
| **Expected Result** | **Homepage should be load successfully and displays all elements (menu, logo, content) correctly.** |
| **Test Data** | **URL: https://example.com/** |
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**Negative Test Case**

| **Test Case ID** | **TC-HOME-02** |
| --- | --- |
| **Description** | **To Verify the behavior of homepage when it fails to load due to network error.** |
| **Type** | **Negative** |
| **Steps** | **1. internet connection off→ 2. Open homepage URL** |
| **Test Data** | **NA** |
| **Expected Result** | **Browser shows error message(NO Data connection , try again)** |
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**Scenario 2: Perform Search Function**

**Positive Test Case**

| **Test Case ID** | **TC-SEARCH-01** |
| --- | --- |
| **Description** | **To Verify that search results with valid keyword input** |
| **Type** | **Positive** |
| **Steps** | **1. Enter "Laptop" in search bar → 2. Click Search** |
| **Test Data** | **Keyword: Laptop, Smartphone** |
| **Expected Result** | **List of matching products Should be displayed.** |
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**Negative Test Case**

| **Test Case ID** | **TC-SEARCH-02** |
| --- | --- |
| **Description** | **TO Verify system response if entering invalid search input** |
| **Type** | **Negative** |
| **Steps** | **1. Enter "!!!###@@@" → 2. Click Search** |
| **Test Data** | **Keyword: “%!!!!@@@|”, Blank input** |
| **Expected Result** | **"No results found" message should be disply.** |
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**Scenario 3: Contact Page Actions**

**Positive Test Case**

| **Test Case ID** | **TC-CONTACT-01** |
| --- | --- |
| **Description** | **TO Verify that Submit the contact form with valid inputs.** |
| **Type** | **Positive** |
| **Steps** | **1. Fill all fields correctly → 2. Click Submit** |
| **Test Data**  **Expected Result** | **Name: Yashoda salve, Email: yashoda12@.com, Message: "hello"**  **"Message sent successfully" confirmation should be display.** |

**Negative Test Cases**

| **Test Case ID** | **TC-CONTACT-02** |
| --- | --- |
| **Description** | **To check Submit the form with missing required fields** |
| **Type** | **Negative** |
| **Steps** | **1. Leave Email blank → 2. Click Submit** |
| **Test Data** | **Email textfield Empty.** |
| **Expected Result** | **Error message should be disply: "Email textfield is required"** |

**Negative Test Case**

| **Test Case ID** | **TC-CONTACT-03** |
| --- | --- |
| **Description** | **To Verify that Submit the form with invalid email format** |
| **Type** | **Negative** |
| **Steps** | **1. Enter invalid email → 2. Click Submit** |
| **Test Data** | **Email: "abc@xyz"** |
| **Expected Result** | **Error message should be display: “Enter Valid Email”** |

**4. Assumptions**

* **Application is deployed and accessible.**
* **Test environment mimics production closely.**
* **Functional requirements are stable and approved.**

**5. Out of Scope**

* **Performance testing**
* **Security/Vulnerability testing**
* **Backend/database validation unless tied to form submissions**