

Reliance Digital Login & Search Functionality Test

**11/11/2021**

# INTRODUCTION

# 1.1 Overview

**Reliance Digital** is an [Indian](https://en.wikipedia.org/wiki/India) consumer electronics retailer. It is a subsidiary of Reliance Retail, a wholly owned subsidiary of Reliance Industries. Reliance Digital opened its first store on 24 April 2007 in [Delhi](https://en.wikipedia.org/wiki/Delhi).Reliance Digital Retail is a chain of stores that sells consumer electronic appliances. Its products include audio and video devices, digital cameras, durables such as refrigerators, air conditioners, washing machines, microwave ovens, and water purifiers.

Verify if the user is able to login into the application with the valid credentials and able to search the categories they want to search.

# 1.2 Purpose

We have evolved from being a textiles and polyester company to an **integrated player across energy, materials, retail, entertainment and digital services**. In each of these areas, we are committed to innovation-led, exponential growth. Our vision has pushed us to achieve global leadership in many of our businesses.

Used to login into the application and search for categories the user needs to search.

**2.**  **LITERATURE SURVEY**

**2.1. Existing Problem:**

Manual testing approaches are carried out. Some of the testings are:

● Unit testing

● Integration testing

● Functional testing

● System testing

● Stress testing

● Performance testing

● Usability testing

● Acceptance testing

● Regression testing

● Beta testing

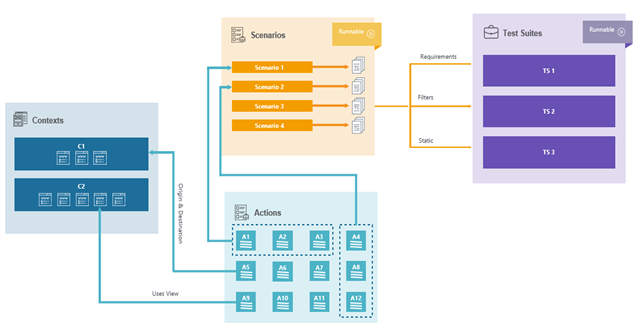
With a Salesforce UAT login, testers can carry out test cases designed to examine the business-friendliness and usefulness of Salesforce before launching it to all end users.

**2.2. Proposed solution :**

Testing the Salesforce login using Rest API in ACCELQ- Test Automation tool. Test automation methodology and framework is well integrated with agile principles and DevOps strategies, which ensures a consistent ROI during the entire software life cycle. The test automation framework is built with a focus on long term utilization and provides great benefits

**3. THEORETICAL ANALYSIS**

**3.1. Block Diagram**

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**3.2.Hardware / Software designing :**

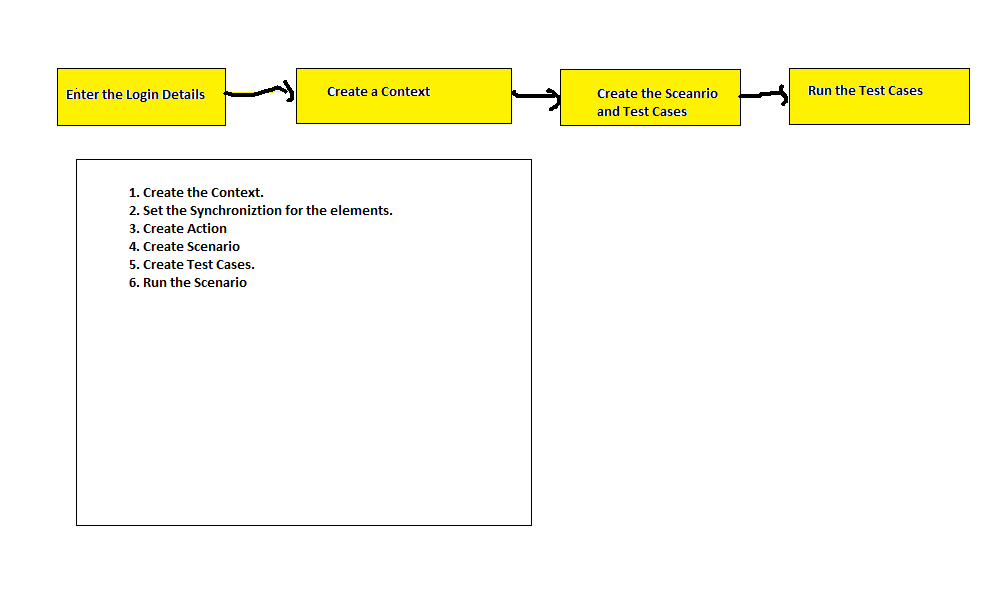
* **CPU Requirements:**
  + **Minimum Dual Core 1.8 GHz CPU**
* **RAM Requirements:**
  + **Minimum 4 GB available RAM**
* **Hard Disk Requirements:**
  + **Minimum 4 GB available hard disk space**
* **Operating System Requirements:**
  + **Microsoft Windows Server 2012 or 2012 R2, 2016, or 2019 (32-bit or 64-bit; Standard, Enterprise)**
* **Web Server Requirements:**
  + **Microsoft Internet Information Services (IIS) version 7.5, 8.0, 8.5, or 10.0**
  + **Web Server (IIS) installed as a Role in Windows Server Manager with the following Role Services installed:**
    - **Common HTTP Features: Static Content**
    - **Application Development: ASP and ISAPI Extensions**
    - **Security: Request Filtering**
    - **Performance: Static Content Compression**
* **Microsoft .NET Framework Requirements:**
  + [**Microsoft .NET Framework 4.7.2**](https://support.microsoft.com/en-us/topic/microsoft-net-framework-4-7-2-offline-installer-for-windows-05a72734-2127-a15d-50cf-daf56d5faec2) **or greater**
* **Software Requirements:**
  + - **o AccelQ Browser Extension**
    - **o AccelQ Local Agent Installed in Desktop**

**4. THEORETICAL ANALYSIS**

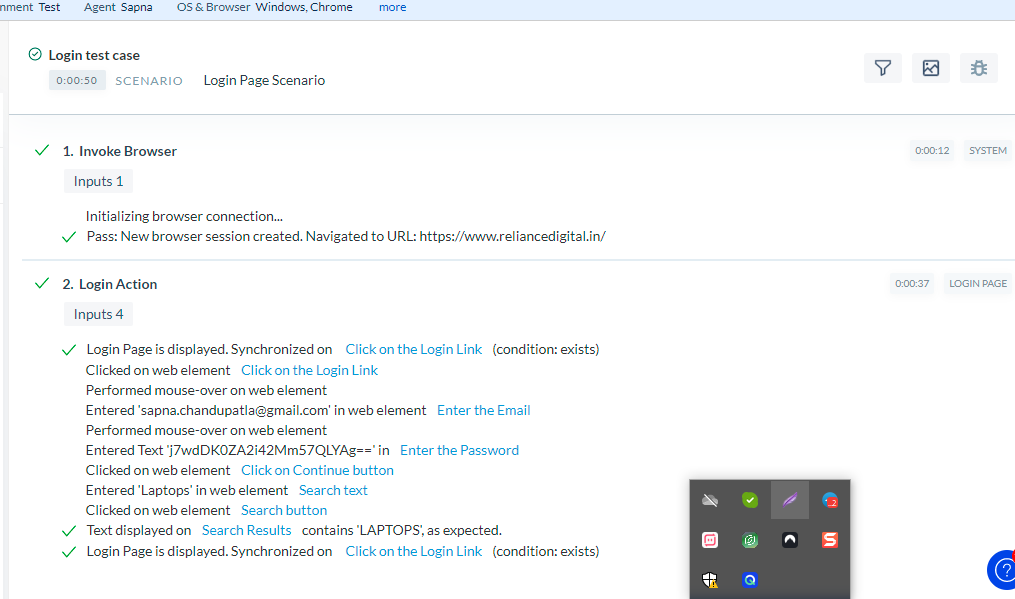
Software quality assurance is in dire need of substantial progress. Software testing is resource-hungry, time-consuming, labor-intensive, and prone to human omission and error. Despite massive investments in quality assurance, serious code defects are routinely discovered after software has been released , and fixing them at such a late stage carries substantial cost . Thorough testing of large, complex software involves great effort, and the software industry still employs relatively primitive testing techniques.

We need a “disruptive technology” to substantially improve software quality. Various studies have found the average bug density in production-ready software to have stayed relatively constant over time, while average code volume of software has increased along an exponential curve, with the net effect that the number of bugs per product is increasing. It is therefore necessary to quickly find a way of reducing bug density by at least an order of magnitude.

**5.** **FLOWCHART**

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**6. Results**

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# 7. ADVANTAGES & DISADVANTAGES

* **ADVANTAGES :**

**o**  Automated testing improves the coverage of testing as automated execution of test cases is faster than manual execution.

o Automated testing reduces the dependability of testing on the availability of the test engineers.

o Automated testing provides round the clock coverage as automated tests can be run all time in 24\*7 environment.

o It helps to train the test engineers to increase their knowledge by producing a repository of different tests.

o It helps in testing which is not possible without automation such as reliability testing, stress testing, load and performance testing.

o It includes all other activities like selecting the right product build, generating the right test data and analyzing the results.

o It acts as a test data generator and produces maximum test data to cover a large number of input and expected output for result comparison.

* **DISADVANTAGES :**

**o** Automated testing is much more expensive than manual testing.

o It also becomes inconvenient and burdensome as to decide who would automate and who would train.

o It is limited to some organizations and many organizations do not prefer test automation.

o Automation testing would also require additionally trained and skilled people.

o Automation testing only removes the mechanical execution of the testing process, but creation of test cases still requires testing professionals.

## **18.** **APPLICATIONS**

**·** Automated testing saves time and money

· Vastly increases your test coverage

· Testing improves accuracy

· Automation does what manual testing cannot

· It helps developers and testers

· QA and Dev team morale improves

**9.** **CONCLUSION**

Successful automation mandates a testing process. Just as a developer needs a system development process, testers need a testing process to successfully use test tools. The testing process provides the steps, guidelines and techniques that will ensure practical, successful automation.

## **10.** **FUTURE SCOPE**

Ever since technology is progressing at a speedy pace, the demand for getting projects done quicker has increased more than ever. To get projects done fast, the complete procedures followed during a software life cycle needs to become accelerated as well.

In the area of software testing, automation can be implemented to save cost and time but only when used in time-taking projects. When it comes to performing regression testing, large scale testing, automation testing is the way to go. It can be a good choice. There are a number of necessary advantages from test automation like Increases the software quality, lessens manual software testing operations and eradicate redundant testing efforts, creating extra systematic repeatable software tests, Minimizing repetitive work and generating more consistent testing outcomes, higher consistency.

Execute more [software tests](https://www.bloglovin.com/@shormistha/what-is-scope-automation-testing-manual-testing) and accomplish better testing coverage in a very limited schedule. Improves productivity and so on. It is an effective means of eliminating/lessening manual effort during regression as well as functional test case execution. Plus, the chances of defect escape will be decreased considerably, since mistakes will not occur once the script is highly developed. Well, in upcoming days, automation will be considered more economical considering the quality and time.

## **11.** **BIBLIOGRAPHY**

* **A**sh-03 Lydia Ash, The Web Testing Companion: Insider’s Guide to Efficient and Effective Tests, Wiley, 2003, ISBN 0471430218.
* Barr-04 Adam Barr, Find the Bug: A Book of Incorrect Programs, Addison-Wesley Professional, 2004, ISBN 0321223918.
* <https://support.accelq.com/hc/en-us/articles/115010299368-What-is-a-Context>
* <https://support.accelq.com/hc/en-us/articles/115010131527-What-is-an-Action-#:~:text=Action%20is%20defined%20in%20a%20Context&text=An%20Action%20utilizes%20resources%20available,etc%20available%20in%20the%20Context>.
* <https://support.accelq.com/hc/en-us/articles/360024842331-Testing-RESTful-services-in-ACCELQ>

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