# VERIFYING SALESFORCE LOGIN USING REST API

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### 1. INTRODUTION

- 1.1 Overview :- Verifying Salesforce login using REST API, which provides us with programmatic access to the data in Salesforce. The flexibility and scalability of REST API make it an excellent choice for integrating Salesforce into the applications and for performing complex operations on a large scale.
  - 1.2 Purpose: Can use REST API tools to create, manipulate, and search data in Salesforce by sending HTTP requests to endpoints in Salesforce. Depending on where you send requests, you access and operate on different pieces of information, called resources. Resources include records, query results, metadata, and more

## 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

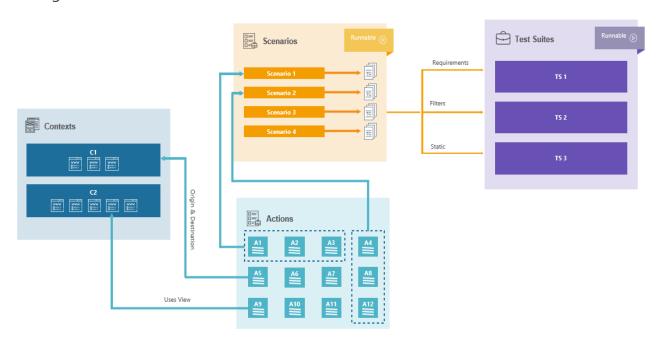
With a Salesforce UAT login, testers can carry out test cases designed to examine the business-friendliness and usefulness of Salesforce before launching it to all end users.

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. THEORITICAL ANALYSIS

## 3.1 Block diagram:-



# 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:
  - o Microsoft Internet Information Services (IIS) version 7.5, 8.0, 8.5, or 10.0

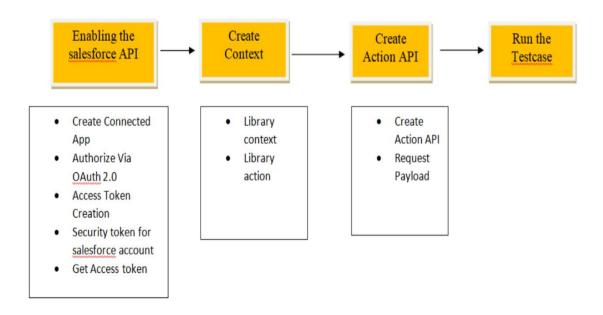
- Web Server (IIS) installed as a Role in Windows Server Manager with the following Role Services installed:
  - Common HTTP Features: Static Content
  - Application Development: ASP and ISAPI Extensions
  - Security: Request Filtering
  - Performance: Static Content Compression
- Microsoft .NET Framework Requirements:
  - Microsoft .NET Framework 4.7.2 or greater
- Software Requirements:
  - AccelQ Browser Extension
  - AccelQ Local Agent Installed in Desktop

## 4. EXPERIMENTAL INVESTIGATION

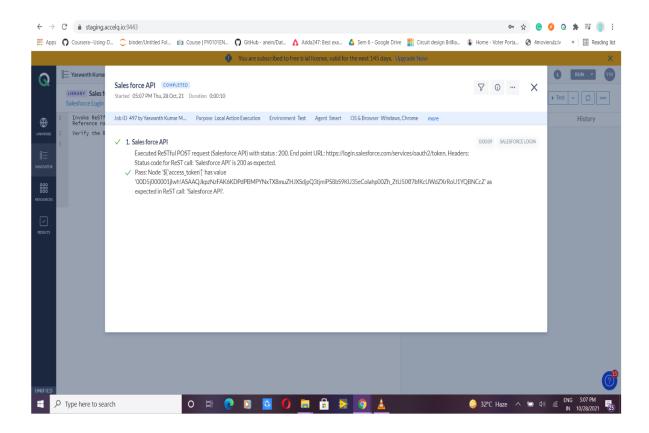
Software quality assurance is in dire need of substantial progress. Software testing is resource-hungry, time-consuming, labor-intensive, and prone to human omission and error. Despite massive investments in quality assurance, serious code defects are routinely discovered after software has been released, and fixing them at so late a 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



# 6. RESULT



#### 7. ADVANTAGES & DISADVANTAGES

## Advantages:-

- Automated testing improves the coverage of testing as automated execution of test cases is faster than manual execution.
- Automated testing reduces the dependability of testing on the availability of the test engineers.
- Automated testing provides round the clock coverage as automated tests
  can be run all time in 24\*7 environment.
- It hepls to trian the test engineers to incresase their knowledge by producing a repository of different tests.
- It helps in testing which is not possible without automation such as reliability testing, stress testing, load and performance testing.
- It includes all other activities like selecting the right product build, generating the right test data and analyzing the results.
- It acts as test data generator and produces maximum test data to cover a large number of input and expected output for result comparison.

## Disadvantages:-

- Automated testing is very much expensive then the manual testing.
- It also become inconvenient and burdensome as to decide who decide who would automate and who would train.
- It has limited to some organizations are many organizations not prefer test automation.
- Automation testing would also require additionally trained and skilled people.
- Automation testing only removes the mechanical execution of testing process, but creation of test cases still required testing professionals.

#### 8. APPLICATOINS

- Automates 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, create extra systematic repeatable software tests, Minimizing repetitive work and generate more consistent testing outcomes, higher consistency.

Execute more **software tests** 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, the automation will be considered more economical considering the fact of quality and time.

## **11.BIBILOGRAPHY**

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