IIHT

HTML

Proficiency – PL1

Contents

[HTML 0](file:///E:\Gopi\Use%20Case%20Study%20-%20HTML%20PL1%20v0.1.docx#_Toc118733029)

[Proficiency – PL1 0](file:///E:\Gopi\Use%20Case%20Study%20-%20HTML%20PL1%20v0.1.docx#_Toc118733030)

[1 Problem Statement 2](#_Toc118733031)

[2 Tool Chain 2](#_Toc118733032)

[3 Business-Requirement: 2](#_Toc118733033)

[4 Rubrics/Expected Deliverables 2](#_Toc118733034)

[4.1 Middleware 2](#_Toc118733035)

[4.2 Database (Products & Frameworks -> Database & Storage): 2](#_Toc118733036)

[4.3 Testing – Security testing 2](#_Toc118733037)

[5 Frontend - optional 3](#_Toc118733038)

# Problem Statement

User need to automate the following website home page <https://rileyandstitch.com/> and use the necessary tools to perform the load test and identify the SLA’s

1. Automate the page using Selenium webdriver
2. Perform the load testing using Apache Jmeter
3. Identify the SLA(Service Level Agreement) response time for a page in seconds

The scope includes performing load [performance] testing of both the above functionalities either separately or in parallel with a load of 5, 10 or 20 users using tool chain mentioned below.

# NFT Skill set coverage

|  |
| --- |
| 14. **Accessibility Testing (PL1) - HTML (PL1) - NFT Process (PL2)**  **15. Core Java (PL2) - HTML (PL1) - NFT Process (PL2)** |

# Tool Chain

|  |  |  |
| --- | --- | --- |
| Competency | Skill | Skill Detail |
| Presentation | HTML /CSS / Javascript |  |
| Language | Java |  |
| Tools | Selenium, TestNG/Junit, Cucumber or any other test framework |  |
| Performance Tool | Apache Jmeter |  |
| Accessibility | Jaws |  |

# Business-Requirement:

As an application develop the front end and do testing of the application with below guidelines:

|  |  |  |
| --- | --- | --- |
| User  Story # | User Story Name | User Story |
| US\_01 | User need to create a page using HTML | As a user need to create a sample HTML page as per the link shared |
| US\_02 | User need to apply CSS on a HTML page with external file | As a user apply the Cascading Style Sheet as the external file. The look and feel of the page should be similar |
| US\_03 | User need to automate HTML page | As a user need to automate the page using Selenium webdriver |
| US\_04 | User need to perform Load test and identify response time | As a user need to perform the load test for a created HTML page and the response time should be less than a second. Also, add the thread user more than 100 and identify the response time for 100 users |

# Rubrics/Expected Deliverables

## Middleware

* 1. Use Java/Spring Boot to develop the above given user stories.
  2. Use necessary configuration in properties file
  3. Package Structure for Project should is with proper naming conventions for package and beans.
  4. Follow proper Naming Conventions

## Database (Products & Frameworks -> Database & Storage):

1. As an application developer:
   1. Add the registration users to the database and fetch the details whenever needed
   2. Leverage Cloud DB

## Testing – Automation

* + - 1. Implement automation using Selenium web driver and Page objects
      2. Perform the load test using Apache Jmeter and find the response time
      3. Perform the assertion for response code and implement the graph
      4. Perform the Accessibility Testing for the webpage
  1. Document Title Rule
  2. Aria Hidden Body Rule
  3. Access Keys Rule
  4. List Item Rule
  5. Tab Index Rule
  6. Valid Lang Rule
  7. Video Description Rule
  8. Button Rule
  9. Blink Rule

# Frontend - optional

* + - 1. Develop the page using HTML, CSS and Javascript
      2. Automate the HTML page using selenium web driver and BDD