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## **Technical Assessment**

### **Asnwer for Q1-Q4**

#### **Q1 (MANDATORY):**

- What is your understanding of load testing?  
  
- Load testing is a way to check how well a system works when many users are using it at the same time. It helps us see if the system is stable and responsive. For example, it can show slow response times or if the system crashes when too many people are using it.
  
- In your opinion, is load testing necessary?  
  
- Yes, in my opinion load testing is important to make sure a system works well when many people use it. It helps find slowdowns or crashes before they cause problems, making the system more reliable and improve user experience.
  
- Can you explain how to perform load testing with JMeter, and what factors should you consider when doing so?  
  
- To do load testing with JMeter, first, install and open the tool. Then, create a test plan to set up test. Add a Thread Group to decide how many users will test the system and how long the test will run. After that, add Samplers to simulate actions like opening a webpage or sending a request. Use Listeners to track the results, like how fast the system responds and if there are any errors. Run the test and see how the system works under load. Finally, check for slow responses, crashes, or errors and fix them. When doing load testing, consider the number of users to see how much traffic the system can handle. Check the response time to make sure the system is fast enough. Look for any errors or crashes. Monitor the server's health, like CPU and memory usage. Finally, add delays between actions to make the test more like real usage.

## **Q2 (MANDATORY):**

### **List of test scenarios:**

#### **Home Page Search Functionality**

1. [Home Page] Verify that the user can search for a Work Instruction on the Home Page.
2. [Home Page] Verify that the user is directed to the Work Instruction page and results are displayed when entering a valid Work Instruction name.
3. [Home Page] Verify that the 'Checklist Icon' appears next to the Work Instruction name in search results.
4. [Home Page] Verify that search results appear when searching by valid Work Instruction Description.
5. [Home Page] Verify that search results appear when searching by valid Work Instruction External Reference Identifier.
6. [Home Page] Verify that search results appear when searching by valid Work Instruction Summary.
7. [Home Page] Verify that search results appear when searching by valid Section Header Name.
8. [Home Page] Verify that search results appear when searching by valid Section Header Description.
9. [Home Page] Verify that an invalid Work Instruction Name returns no results.
10. [Home Page] Verify that an invalid Work Instruction Description returns no results.
11. [Home Page] Verify that an invalid External Reference Identifier returns no results.
12. [Home Page] Verify that an invalid Work Instruction Summary returns no results.
13. [Home Page] Verify that an invalid Section Header Name returns no results.
14. [Home Page] Verify that an invalid Section Header Description returns no results.
15. [Home Page] Verify that special characters (e.g: !, @, #, \$, %) are allowed in search function.
16. [Home Page] Verify that when user search with an empty search bar does not execute any search result.
17. [Home Page] Verify if the search function is case-sensitive or case-insensitive.
18. [Home Page] Verify when user enter partial keyword then return result contains partial keyword searched.

#### **Work Instruction Page Search Functionality**

19. [Work Instruction Page] Verify that the user can search for a Work Instruction on the Work Instruction Page.

20. [Work Instruction Page] Verify that results appear when searching by a valid Work Instruction Name.
21. [Work Instruction Page] Verify that no results appear when searching by an invalid Work Instruction Name.
22. [Work Instruction Page] Verify that the 'Checklist Icon' appears next to the Work Instruction name in search results.
23. [Work Instruction Page] Verify that search results appear when searching by valid Work Instruction Description.
24. [Work Instruction Page] Verify that search results appear when searching by valid Work Instruction External Reference Identifier.
25. [Work Instruction Page] Verify that search results appear when searching by valid Work Instruction Summary.
26. [Work Instruction Page] Verify that search results appear when searching by valid Section Header Name.
27. [Work Instruction Page] Verify that search results appear when searching by valid Section Header Description.
28. [Work Instruction Page] Verify that an invalid Work Instruction Name returns no results.
29. [Work Instruction Page] Verify that no results appear when searching by an invalid Work Instruction Description.
30. [Work Instruction Page] Verify that no results appear when searching by an invalid External Reference Identifier.
31. [Work Instruction Page] Verify that no results appear when searching by an invalid Work Instruction Summary.
32. [Work Instruction Page] Verify that no results appear when searching by an invalid Section Header Name.
33. [Work Instruction Page] Verify that no results appear when searching by an invalid Section Header Description.
34. [Work Instruction Page] Verify that entering special characters (e.g: !, @, #, \$, %) are allowed in search function.
35. [Work Instruction Page] Verify that when user search with an empty search bar does not execute any search result.
36. [Work Instruction Page] Verify if the search function is case-sensitive or case-insensitive.
37. [Work Instruction Page] Verify when user enter partial keyword then return result contains partial keyword searched.

**Q3 (MANDATORY):**

**Q4 (OPTIONAL):**

\*Answer is in In the file attached through email.