**2. Web Automations – Error Message**

**How do you automate error message validation for required fields in a form?**

Whenever there is an error occurring in the system, it should be well defined for the user to get the idea of what is constructing the blockage or the reason behind the error. Hence, having an error message is both useful and informative.

To automate the error message, the error should be triggered. Once triggered, we can capture the error message and compare it with the expected requisite as per the given documentation. Hereby, I would follow the given steps for error message validation.

1. Trigger validation by attempting to submit an empty or incomplete form.
2. Capture the error message displayed by the web page.
3. Assert the expected error message to verify correct validation behavior.

**Explain your approach with necessary steps**

To verify and validate error message for different fields in a form, I would follow the following steps.

1. Form and Error Handling

This step is to verify how different fields are defined in the form and if they have a proper error handling and how they should appear.

1. Setting up test environment
2. Locate and interact with the elements

This step is needed to locate different fields. You can use XPath or CSS to locate. Once located, you should be able to submit with invalid credentials to trigger the error message.

1. Capture and Validate Error message
2. Log the result

**Implement this in a website you preferred, using java and selenium. Generate report of your test cases.**

In Selenium, error message validation is done by first, finding out the element and then reading its value and compare it.

For the report, I have used a demo website called Swag Demo, <https://www.saucedemo.com/>. The website uses two field - Username and Password. The website has listed pre-approved list of usernames and one password. For the test, I have entered an invalid username and password and checked for error message validation.

The report for the test conducted is attached in the git.