Framework Design Question

By rahul shetty academy

Q.1 What is the Design Pattern you have used in writing the tests in the Framework?

A. we use page object model but we are also use pageFactory pattern to Create objects, it is the subset of page object model. We are use initelement method in the constructor and use annotation @FindBy

Q.2 How are reusable utilities handled within the frameworks?

A. two way –

1. we created selenium related reusable method in a file and then we are extends this file into all our page object file

2. test related methods are created into a base class file like open browser, teardown method, this method inherit by the testcases.

Q3. Where did you use inheritance opps concepts in you frameworks?

Ans. We have some reusability classes we don’t want to create for each and every ressability class, so we are simply inherit our child classes and use use reusable methods and class.

Q4. How did you drive the data from external files in the framework?

Ans. Json file , using dataprovider

Q5. Do you use interfaces in the framework? If so what is the scope of it?

Ans. Yes , we are using the ITestListner interface we are implementing in our framework.

Q6. Why we are use ITestListner?

Ans. After the test result if you take any action based on result you will use ITestListner it provide some methods , onTestStart, onTestSuccess, onTestFailure, onStart, onFail

Q7. How are you achieveing in encapsulation in the famework?

Ans. Encapsulation – hiding the implementation details of your class from another class

Exm- if webelement are public and have 2 mother in Page object file , and if we wants to use this two method in another class , then we are create the object of this class where I want to use this method now using this object we are access the mothod of this class and also we can access the webelement using this object if we don’t want to use this webelement to use another class so we are created as a private modifier. Now 2 method will use by this object not webelement.

Q8. Does your framework support parallel run, how are you writing thread safe code?

Ans. For run parallel first we are create an attribute in the suite tag that is - <suite parallel =”tests” name=”suite”> , create the object ThreadLocal<ExtentTest> class , which can get unique thread id and store them using set method and retrieve them using get method.

Q9. Do you have static keyword in the framework? If so , its usage?

Ans. If you are using the static keyword in the framework so there are no option for parallel testing(becuae in parallel testing every variable has a different own thread) , because static keyword use for common space allocation for all the thread.

Q10. How are you sending Global properties to your test at run time>

Ans. First we are create the .properties extension file and for reading this file we can create the Properties class object and loading that file using load() and get the value from the system.setProperty() and return this value where you want to use.

Q11. What is the mechanism you use to run only selected set of tests inside the framework?

Ans. Using the groups attribute, groups={“sanity”} , then create a xml file and before the test tag create groups tag and inside the group tags create run tag and in run tag using the include test, pass the name of groups which you want to execute like <include name=”sanity”/>

Q.12 how are you handling Flaky tests in the framework?

Ans. Test which are inconsistence fail in first attempt, but pass in second attempt, we are using IRetryAnalyzer interface , esme jitni baar apko retry krna hai wo condition denge value true ya false return krayenge. Esko testcase se connect ke liye ye attribute ka use krenge retryAnayzer=classname.class

Q13. Does your framework take screeshot on test failures ? how did you implement it?

Ans. Using testing listener we know that when that whenever test is fail we can catch it and the testFailerMethod(onTestFailure) is execute there we will smartly write our screenshot code and attached this screenshot to extent report using addScreenCaptureFromPath() method