Last updated: Oct 4, 2021

Selenium Java Training - Session 34 -Developing a Framework and Automating Live Project (Part 2)

- Configuring log4j for logs
 - Copy paste the log4j2.xml file here into the resources package View here
 - Open the LoginTest and write the logs View here
 - o Add the tags to pom.xml file to specify where exactly log4j file is available in the project
 - Search for 'Maven filtering' in google
 - Add the tags under <build> tag
 - Run the code and observe that the logs will be printed in the logs file
- Enable Parallel execution using TestNG
 - Adding sample automation code in all the Test Classes and Run them as a group to see whether they are running one after the other
 - Modify the testng.xml file as below:
 - Separate individual classes to separate tags
 - Add parallel=tests
 - Run the code and observe that all the tests will run in parallel
- Taking screenshots for failing Tests
 - Create a listeners package under src/main/java
 - Create a Listeners class under it and make it implement ITestListener interface
 - Add TestNG library if unable to resolve the errors
 - Select 'Source' menu in Eclipse IDE < Override/Implement Methods and select all the check boxes of ITestListerner
 - Create reusable method for taking screenshots in Base class with two parameters <u>View</u> <u>here</u>
 - Extend the Listeners class with Base class
 - Update the onTestFailure() method of Listeners class <u>View here</u>
 - Add the Listeners tags in testng.xml file <u>View here</u>
 - Make the driver of the Test Classes to global and public
 - Intentionally fail a test and run the testng.xml file
- Integrating ExtentReports to the framework
 - Create a package say 'utilities' under 'src/main/java'
 - Create a class under this package say 'ExtentReporter'
 - Create a method say 'getExtentReport' with this code View here
 - Make the getExtentReport method static
 - Write extent report code into different Listeners methods (onTestStart, onTestSuccess, onTestFailure and onFinish) - <u>View here</u>
 - Remove parallel execution from testng.xml file and Run
 - . Maka Evtant Danarta throad-cafe by adding this code to Listanare class

ThreadLocal<ExtentTest>();

- Add this line inside onTestStart
 - extentTestThread.set(extentTest);
- Replace existing line with this line inside onTestSuccess
 - extentTestThread.get().log(Status.PASS,"Test Passed");
- Replace existing line with this link inside onTestFailure
 - extentTestThread.get().fail(result.getThrowable());
- Adding the screenshot to the ExtentReports
 - Make the takeScreenshot() method return the destination file path <u>View here</u>
 - Update the onTestFailure method
 - String screenshotFilePath = takeScreenshot(testMethodName,driver);
 - extentTestThread.get().addScreenCaptureFromPath(screenshotFilePath, testMethodName);
- Run the testng.xml file
- Applying Encapsulation in the framework
 - Make all the Page Objects as private So far Project <u>Download Here</u>
- Integrating Cucumber BDD into this Framework
 - Add the dependencies for Cucumber
 - Cucumber-Java
 - Cucumber-testng
 - Verify whether the Cucumber Eclipse IDE plugin is installed
 - Create a package say 'features' under 'src/test/java'
 - Create a feature file say 'Login.feature' under this package View here
 - Create a package say 'stepdefinitions' under 'src/test/java'
 - Create a Class say 'Login.java' under this package
 - Auto-generate the Step definitions using TinyGerkhin Chrome Plugin
 - Move the automation code to respective step definitions methods View here
 - Create a runner package
 - Create a Runner class under it View here
 - Extend AbstractTestNGCucumberTests
 - Generate a testng2.xml file and modify like this View here
 - Run the testng2.xml file
 - Mention this testng2.xml file in maven surefire plugin of pom.xml and run using the Maven command (mvn test)

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