Working with Log4j:

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Step 1: Create new java project

Step 2: Configure Log4j library to java project

Navigation:

Download log4j.Jar file

http://www-us.apache.org/dist/logging/log4j/1.2.17/log4j-1.2.17.zip

extract zip file

configure "log4j-1.2.17" jar file to java project

Note:

based on requirement we can also configure WD jars and TestNg jars

Step 3:create log4j.properties file in project Home directory

navigation:

Right click on "java project"

New

File

enter file name as "log4j.properties"

Click on Finish

Step 4: write following code into log4j.properties file

log4j properties file configuration script

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# Here we have defined root logger

log4j.rootLogger=DEBUG,CONSOLE,FILE

#Console configuration

log4j.appender.CONSOLE=org.apache.log4j.ConsoleAppender

log4j.appender.CONSOLE.layout=org.apache.log4j.PatternLayout

log4j.appender.CONSOLE.layout.ConversionPattern= %d{dd-MM-yyyy hh:mm:ss} %c %M -%m%n

#File configuration

log4j.appender.FILE=org.apache.log4j.FileAppender

log4j.appender.FILE.layout=org.apache.log4j.PatternLayout

log4j.appender.FILE.file=./TestResults/AppLogs.log

log4j.appender.FILE.layout.ConversionPattern= %d{dd-MM-yyyy hh:mm:ss} %c %M -%m%n

log4j.appender.FILE.Append=true

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Step 5: create TestNg class and use Logger class to pass messages into log file

and console

package testng.framework;

import org.apache.log4j.Logger;

import org.apache.log4j.PropertyConfigurator;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

import org.testng.annotations.Test;

public class Log4jDemo {

private Logger logger;

public WebDriver driver;

@Test

public void setUp() {

logger=Logger.getLogger("Log4jDemo.class");

PropertyConfigurator.configure("log4j.properties");

System.setProperty("webdriver.chrome.driver", "D:\\SelResource\\chromedriver.exe");

logger.info("Browser executable file running");

driver=new ChromeDriver();

logger.info("Browser launched");

driver.get("https://opensource-demo.orangehrmlive.com/");

logger.info("Application opened");

driver.manage().window().maximize();

}

}

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Extent Reports v4 in Selenium Webdriver

Steps To Generate Extent Reports in Selenium:

Step 1: create a TestNG project in eclipse

Step 2: Download Extent reports Version4 JAR files

url: http://extentreports.com/community/

Step 3: Add the downloaded library (jar) files to your project

(external jar file and Dependency jars)

Step 4: Create Class using Extent Report classes to verify OrangeHRM page

title and also provide screenshot of page with date stamp in Reports

package sample.pack;

import java.io.File;

import java.io.IOException;

import java.text.DateFormat;

import java.text.SimpleDateFormat;

import java.util.Date;

import org.openqa.selenium.OutputType;

import org.openqa.selenium.TakesScreenshot;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.io.FileHandler;

import org.testng.Assert;

import org.testng.annotations.AfterClass;

import org.testng.annotations.AfterMethod;

import org.testng.annotations.BeforeClass;

import org.testng.annotations.BeforeMethod;

import org.testng.annotations.Test;

import com.aventstack.extentreports.ExtentReports;

import com.aventstack.extentreports.ExtentTest;

import com.aventstack.extentreports.Status;

import com.aventstack.extentreports.reporter.ExtentHtmlReporter;

import com.aventstack.extentreports.reporter.configuration.Theme;

public class ExtentDemo {

ExtentHtmlReporter htmlReporter;

ExtentReports extent;

ExtentTest test;

WebDriver driver;

@BeforeClass

public void extentInit() {

//to specify the location

htmlReporter=new ExtentHtmlReporter("./TestResults//ExtentReporter.html");

// Title of the report

htmlReporter.config().setDocumentTitle("Automation Report");

//Name of the report

htmlReporter.config().setReportName("Functional Report");

//To Specify Theme like STANDARD/DARK

htmlReporter.config().setTheme(Theme.STANDARD);

//create ExtentReports object and attach Reports

extent=new ExtentReports();

extent.attachReporter(htmlReporter);

extent.setSystemInfo("Hostname", "LocalHost");

extent.setSystemInfo("OS", "Windows10");

extent.setSystemInfo("Tester Name", "Madhukar");

extent.setSystemInfo("Browser", "Chrome");

//create ExtentTest object and specify Report Title

test=extent.createTest("OrangeHRM\_TitleTest");

}

@BeforeMethod

public void setUp()

{

System.setProperty("webdriver.chrome.driver", "D:\\SelResource\\chromedriver.exe");

driver = new ChromeDriver();

test.log(Status.INFO,"Chrome browser launched");

driver.manage().window().maximize();

driver.get("https://opensource-demo.orangehrmlive.com/");

test.log(Status.INFO,"Navigated Orange HRM Application");

}

@Test

public void titleTest() throws IOException {

String pgTitle=driver.getTitle();

Assert.assertEquals("OrangeHRM", pgTitle);

test.log(Status.PASS, "Expected title exist");

File f=((TakesScreenshot)driver).getScreenshotAs(OutputType.FILE);

//to get Date stamping with file

Date dt= new Date(); //it will return system date

DateFormat df1= new SimpleDateFormat("dd\_MM\_yyyy\_HH\_MM\_ss");//to convert into required format

//to save screenshot with date stamping

FileHandler.copy(f,new File("D:\\titleScreenshot"+df1.format(dt)+".png")) ;

test.addScreenCaptureFromPath("D:\\titleScreenshot"+df1.format(dt)+".png");// adding screen shot

}

@AfterMethod

public void tearDown() {

driver.close();

}

@AfterClass

public void endReport()

{

extent.flush();

}

}

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