

```

public class BaseTest {

    public static WebDriver driver;
    public static ExtentReports extReport; _____ Extent Report ref.
    public static ExtentTest extentTest; _____ ExtentTest ref

    @Parameters({"browserName"})
    @BeforeTest
    public void setUp(ITestContext context,String browserName)
    {

        if(browserName.equals("chrome"))
        {
            WebDriverManager.chromedriver().setup();
            driver=new ChromeDriver();
            driver.manage().window().maximize();

        }

        if(browserName.equals("FireFox"))
        {
            WebDriverManager.firefoxdriver().setup();
            driver=new FirefoxDriver();
            driver.manage().window().maximize();

        }

        if(browserName.equals("edge"))
        {
            WebDriverManager.edgedriver().setup();
            driver=new EdgeDriver();
            driver.manage().window().maximize();

        }

        String testName=context.getName();
        extentTest= extReport.createTest(testName,"This Test is for Opening google");
        String author=context.getCurrentXmlTest().getParameter("author");
        extentTest.assignAuthor(author);
        Capabilities cp=((RemoteWebDriver)driver).getCapabilities();
        extentTest.assignDevice("Bowser Name",cp.getBrowserName());
        extentTest.assignDevice("Browser Version",cp.getBrowserVersion());

    }
}

```

Retrive Test name which is passed from xml file

To application Level info

Code For FirFox Browser

Code For Edge Browser

Add Browser information

End of setUp method

```

@AfterTest
public void tearDown()
{
    driver.quit();
}

@BeforeSuite
public void initializeExtentReport()
{
    extReport=new ExtentReports();
    ExtentSparkReporter spark=new ExtentSparkReporter("ExtentReptNG.html");
    extReport.setSystemInfo("OS Name", System.getProperty("os.name"));
    extReport.setSystemInfo("Java Version", System.getProperty("java.version"));
    extReport.setSystemInfo("JVM Version", System.getProperty("java.vm.version"));
    extReport.attachReporter(spark);
}

```

```

@AfterSuite
public void generateExtentReport()
{
    extReport.flush();
}

```

```

@AfterMethod
public void checkStatus(Method m, ITestResult result)
{
    if(result.getStatus()==ITestResult.FAILURE)
    {
        extentTest.fail(m.getName()+"is failed");
        String groups[]=m.getAnnotation(org.testng.annotations.Test.class).groups();
        extentTest.assignCategory(groups);
        extentTest.fail(result.getThrowable());
        String filePath=captureScreenShot(m.getName(), ".png");
        extentTest.addScreenCaptureFromPath(filePath, "Failed Test Screenshot");
    }
    if(result.getStatus()==ITestResult.SUCCESS)
    {
        extentTest.pass(m.getName()+"is passed");
        String groups[]=m.getAnnotation(org.testng.annotations.Test.class).groups();
        extentTest.assignCategory(groups);
    }
}

```

```

public String captureScreenShot(String fileName,String extention)
{
    String file=getDateAndTime();
    String finalFileName=fileName+file;
    System.out.println("inside takeScreenShot");
    TakesScreenshot ts=(TakesScreenshot)driver;
    System.out.println("ts "+ts);
    File source=ts.getScreenshotAs(OutputType.FILE);
    File destination=new File ("./screenshot/"+finalFileName+"."+extention);

    try {
        FileUtils.copyFile(source, destination);
    }
    catch (Exception e) {
        System.out.println("takeScreenShot "+e.getMessage());
    }
    System.out.println("screedn shot taken");
    return destination.getAbsolutePath();
}

```

screen shot capturing logic

```

private static String getDateAndTime()
{
    System.out.println("inside getDateAndTime");
    Date date = new Date();
    SimpleDateFormat formatter = new SimpleDateFormat("ddMyyyyhhmmss");
    String strDate= formatter.format(date);
    System.out.println("strDate "+strDate);
    return strDate;
}

```

End of BaseTest Class

Run All

```

public class IntegrationDemo extends BaseTest{

```

```

    @Parameters("url")
    @Test(groups = {"sanity"})
    Run | Debug
    public void openGoogle(String url)
    {
        driver.get(url);
        String actual=driver.getTitle();
        String expected="Google";
        assertEquals(actual, expected);
    }
}

```

```

@Parameters({"url","username","password"})
@Test(groups = {"smoke","regression"})
Run | Debug
public void loginOrangeHrm(String url,String userName,String password)
{
    driver.get(url);
    driver.findElement(By.id("txtUsername")).sendKeys(userName);
    driver.findElement(By.id("txtPassword")).sendKeys(password);
    driver.findElement(By.id("btnLogin")).click();
}

```

```

@Parameters("url")
@Test(groups = {"smoke"})
Run | Debug
public void openSelenimOfficalSite(String url)
{
    driver.get(url);
    String actualtitle=driver.getTitle();
    String expectedTitle="Selenium1";
    assertEquals(actualtitle, expectedTitle);
}
}

```

End of Class

#### TestNG Xml File

```

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd">
<suite name="IntegrationSuiteDemo">
    <test name="Open Google">
        <parameter name="browserName" value="chrome"/>
        <parameter name="url" value="https://www.google.com/" />
        <parameter name="author" value="PeterSon"/>
        <classes>
            <class name="com.extent.reports.IntegrationDemo">
                <methods>
                    <include name="openGoogle"/>
                </methods>
            </class>
        </classes>
    </test>

```

Open Google Test

```
<test name="Login Orange HRM">
<parameter name="browserName" value="edge"/>
<parameter name="url" value="https://opensource-demo.orangehrmlive.com/" />
<parameter name="username" value="Admin"/>
<parameter name="password" value="Admin1234"/>
<parameter name="author" value="Ajay"/>
  <classes>
    <class name="com.extent.reports.IntegrationDemo">
      <methods>
        <include name="LoginOrangeHrm"/>
      </methods>
    </class>
  </classes>
  Login HRM Test
</test>
```

```
10 <test name="openSeleniumOfficalSite">
11 <parameter name="browserName" value="FireFox"/>
12 <parameter name="url" value="https://www.selenium.dev/" />
13 <parameter name="author" value="Sanjay"/>
14   <classes>
15     <class name="com.extent.reports.IntegrationDemo">
16       <methods>
17         <include name="openSeleniumOfficalSite"/>
18       </methods>
19       </class>
20     </classes>
21   </test>
22 </suite>
```