

## Framework Implementation

---

1. Demo site for automation > <https://demo.guru99.com/>
2. Enter you email id and get the user id and password for the demo site

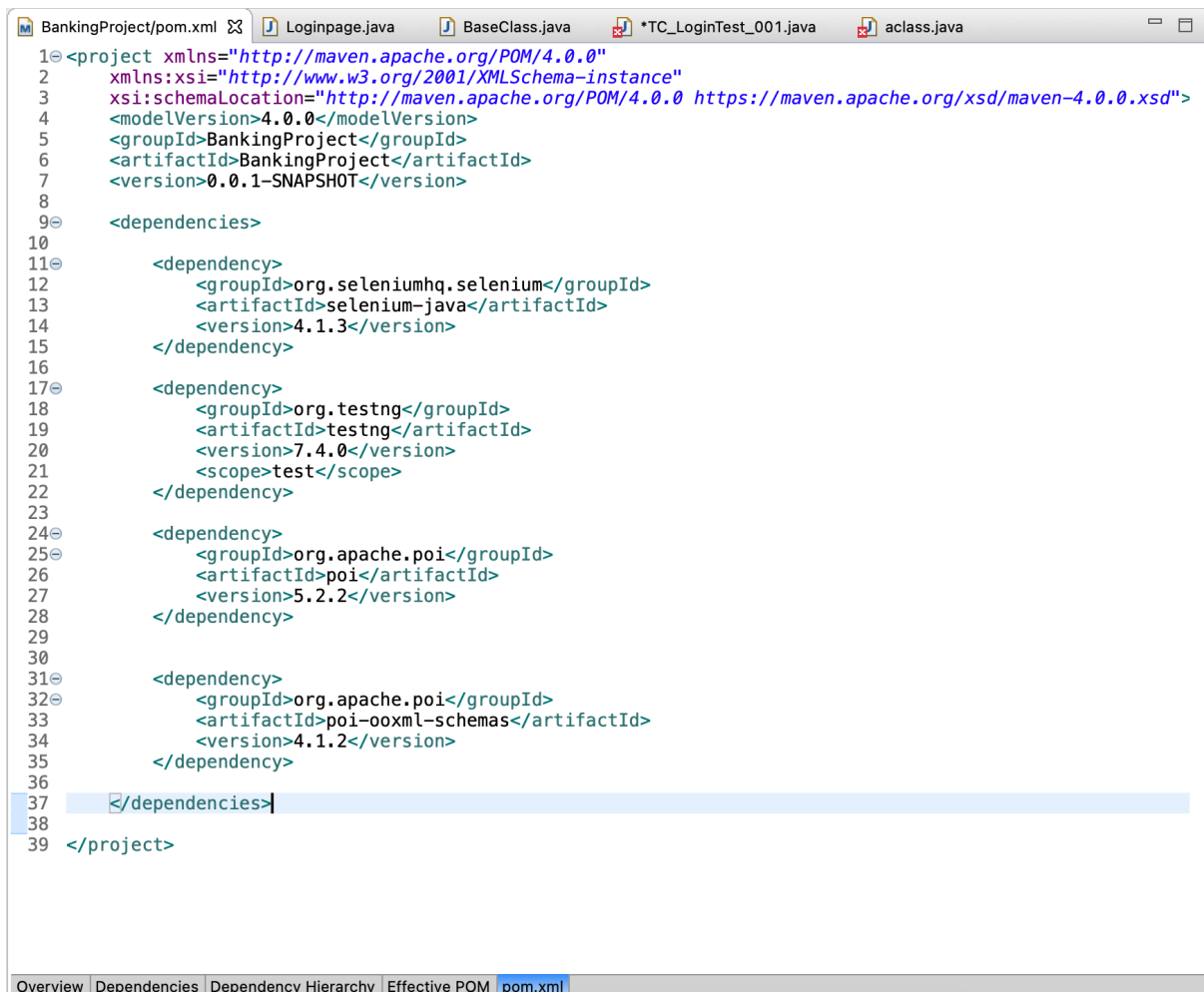
## Implementation

### 1. Create a maven project

- Go to File > New > Other > Maven
- Inside maven folder > select maven project
- Click on create simple project
- Enter Group id and Artifact id
- Click on finish

### 2. Add dependencies in pom.xml file

- Go to <https://mvnrepository.com/>
- Search for selenium, testng, apache poi and add the dependencies into the pom.xml file.



```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <project xmlns="http://maven.apache.org/POM/4.0.0"
3   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4   xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
5   <modelVersion>4.0.0</modelVersion>
6   <groupId>BankingProject</groupId>
7   <artifactId>BankingProject</artifactId>
8   <version>0.0.1-SNAPSHOT</version>
9   <dependencies>
10
11     <dependency>
12       <groupId>org.seleniumhq.selenium</groupId>
13       <artifactId>selenium-java</artifactId>
14       <version>4.1.3</version>
15     </dependency>
16
17     <dependency>
18       <groupId>org.testng</groupId>
19       <artifactId>testng</artifactId>
20       <version>7.4.0</version>
21       <scope>test</scope>
22     </dependency>
23
24     <dependency>
25       <groupId>org.apache.poi</groupId>
26       <artifactId>poi</artifactId>
27       <version>5.2.2</version>
28     </dependency>
29
30
31     <dependency>
32       <groupId>org.apache.poi</groupId>
33       <artifactId>poi-ooxml-schemas</artifactId>
34       <version>4.1.2</version>
35     </dependency>
36
37   </dependencies>
38
39 </project>
```

Overview Dependencies Dependency Hierarchy Effective POM pom.xml

### 3. Create multiple packages naming as follows

- com.bankingproject.pageobjectclass
- com.bankingproject.testclass
- com.bankingproject.testdata
- com.bankingproject.utilities

### 4. Create various folders

- To store the screenshot
- To store the reports
- To store the browser driver

### 5. Create page object class under package “com.bankingproject.pageobjectclass“

E.x

```
package com.bankingproject.pageobjectclass;
```

```
import org.openqa.selenium.WebDriver;
```

```
import org.openqa.selenium.WebElement;
```

```
import org.openqa.selenium.support.FindBy;
```

```
import org.openqa.selenium.support.PageFactory;
```

```
public class Loginpage
```

```
{
```

```
    WebDriver ldriver;
```

```
    @FindBy(name ="uid")                                // Finding elements
```

```
    WebElement userID;
```

```
    @FindBy(name="password")
```

```
    WebElement password;
```

```
    @FindBy(name= "btnLogin")
```

```
    WebElement loginButton;
```

```
public Loginpage(WebDriver rdriver)                    // Constructor
```

```
{
```

```
    ldriver = rdriver;
```

```
    PageFactory.initElements(rdriver, this);
```

```
}
```

```
public void setUsername(String name)                  // method for username
```

```
{
```

```
    userID.sendKeys(name);
```

```

    }

    public void setPassword(String pass)
    {
        password.sendKeys(pass);
    }

    public void loginButn()
    {
        loginButton.click();
    }
}

```

=====

## 6. Create base class under package “com.bankingproject.pageobjectclass”

E.x

```

package com.bankingproject.pageobjectclass;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.AfterClass;
import org.testng.annotations.BeforeClass;

public class BaseClass
{
    public String baseURL = "https://demo.guru99.com/V1/index.php";
    public String username = "mngr397771";
    public String password = "gatYtUv";

    public static WebDriver driver;

    @BeforeClass
    public void setup()
    {
        System.setProperty("webdriver.chrome.driver",
"/Users/amitparate/Downloads/chromedriver");
        driver = new ChromeDriver();
    }

    @AfterClass
    public void closebrowser()
    {
        driver.quit();
    }
}

```

## 7. Create test class under package “com.bankingproject.testclass”

E.x

```
package com.bankingproject.testclass;

import org.testng.annotations.Test;

import com.bankingproject.pageobjectclass.BaseClass;
import com.bankingproject.pageobjectclass.Loginpage;

public class TC_LoginTest_001 extends BaseClass {

    @Test
    public void loginTest() {

        driver.get(baseUrl);

        Loginpage login = new Loginpage(driver);
        login.setUsername(username);
        login.setPassword(password);
        login.loginButn();

        if (driver.getTitle().equals("GTPL Bank Manager HomePage"))
        {
            System.out.println("title is correct");
        } else {
            System.out.println("title is incorrect");
        }
    }
}

=====
```