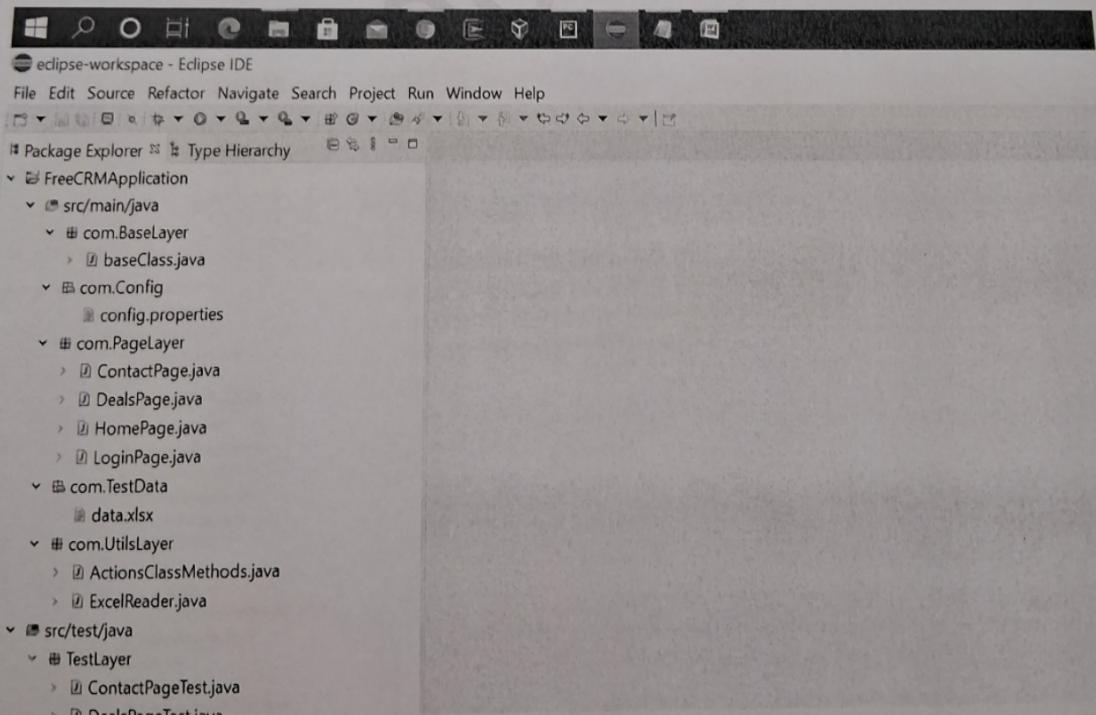
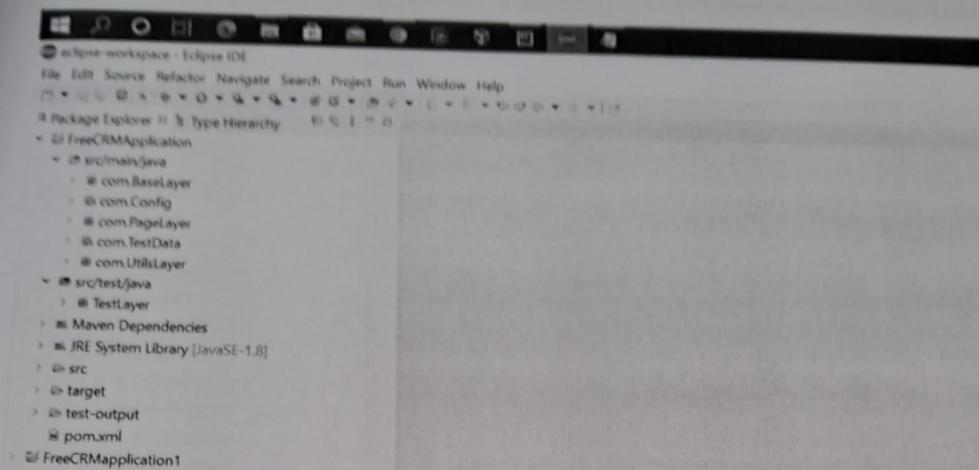
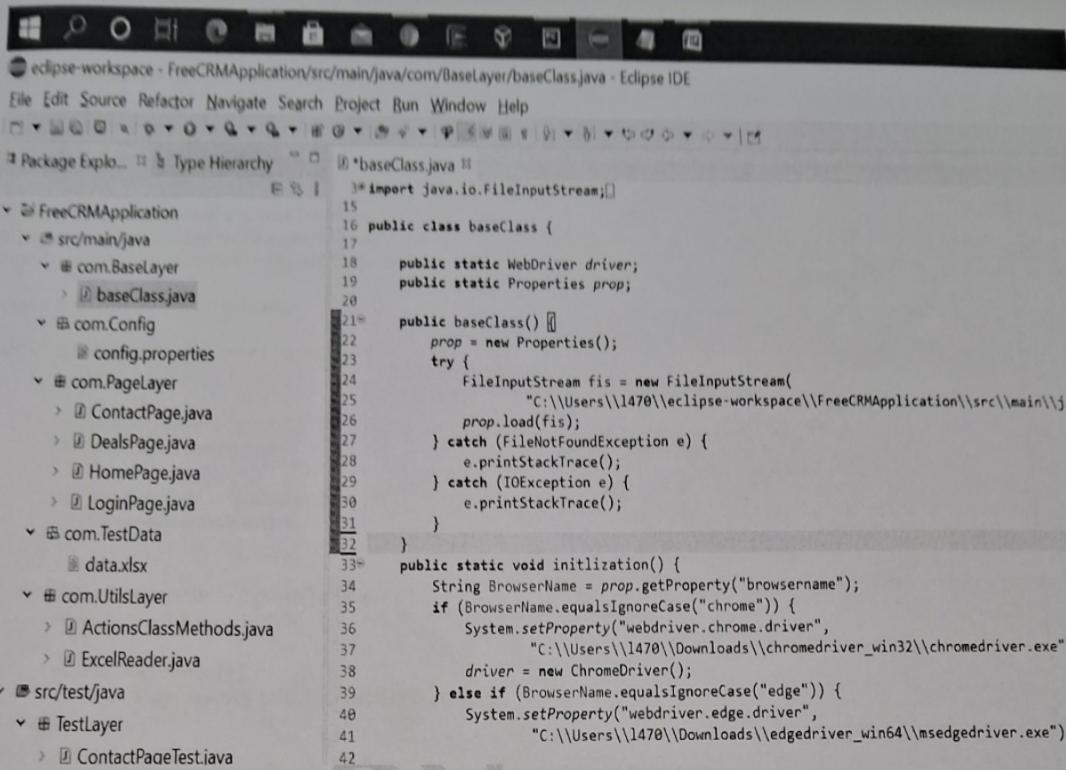


Framework Structure:



Base Layer Package: :: Base Class Code:



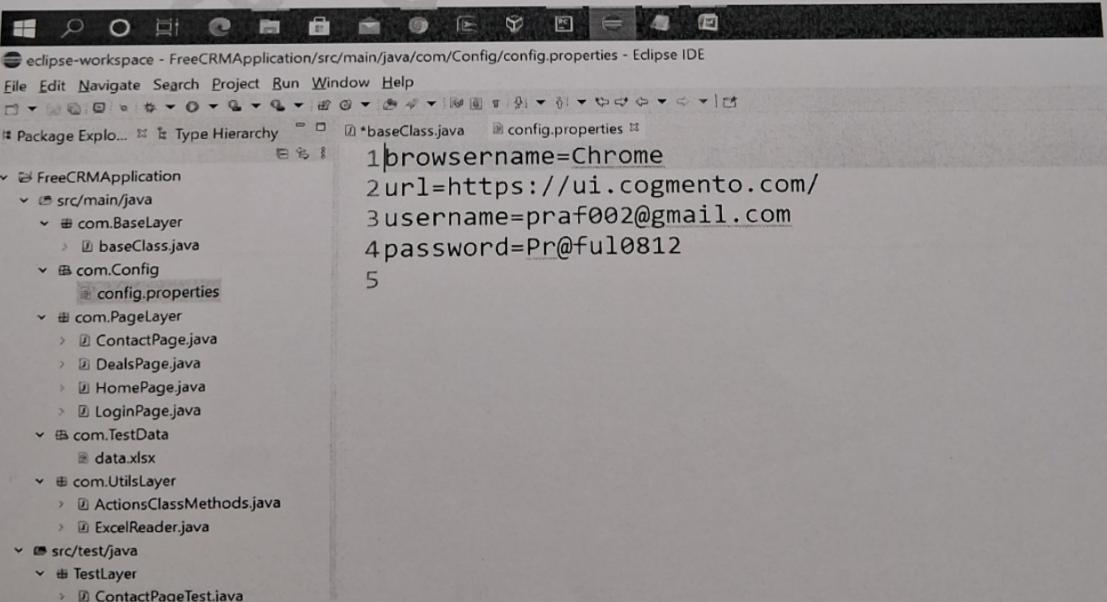
```

eclipse-workspace - FreeCRMApplication/src/main/java/com/BaseLayer/baseClass.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package Expl... Type Hierarchy *baseClass.java
* import java.io.FileInputStream;
15 public class baseClass {
16     public static WebDriver driver;
17     public static Properties prop;
18
19     public baseClass() {
20         prop = new Properties();
21         try {
22             FileInputStream fis = new FileInputStream(
23                 "C:\\\\Users\\\\1470\\\\eclipse-workspace\\\\FreeCRMApplication\\\\src\\\\main\\\\java\\\\c
24                 prop.load(fis);
25             } catch (FileNotFoundException e) {
26                 e.printStackTrace();
27             } catch (IOException e) {
28                 e.printStackTrace();
29             }
30         }
31     }
32
33     public static void initialization() {
34         String BrowserName = prop.getProperty("browsername");
35         if (BrowserName.equalsIgnoreCase("chrome")) {
36             System.setProperty("webdriver.chrome.driver",
37                 "C:\\\\Users\\\\1470\\\\Downloads\\\\chromedriver_win32\\\\chromedriver.exe");
38             driver = new ChromeDriver();
39         } else if (BrowserName.equalsIgnoreCase("edge")) {
40             System.setProperty("webdriver.edge.driver",
41                 "C:\\\\Users\\\\1470\\\\Downloads\\\\edgedriver_win64\\\\msedgedriver.exe");
42
}

```

Config Layer:

Under the config layer we create Properties file.



```

eclipse-workspace - FreeCRMApplication/src/main/java/com/Config/config.properties - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Package Expl... Type Hierarchy *baseClass.java config.properties
1 browsername=Chrome
2 url=https://ui.cogmento.com/
3 username=praf002@gmail.com
4 password=Pr@ful0812
5

```

HomePage Class

```
package com.PageLayer;

import org.openqa.selenium.WebElement;
import org.openqa.selenium.support.FindBy;
import org.openqa.selenium.support.PageFactory;

import com.BaseLayer.baseClass;

public class HomePage extends baseClass{

    @FindBy(xpath="//span[@class='user-display']")
    WebElement LoggedUserName;

    @FindBy(linkText="Contacts")
    WebElement contactsLink;

    @FindBy(linkText="Deals")
    WebElement DealsLink;

    public HomePage(){
        // how intialize Page factory OR .
        PageFactory.initElements(driver, this);
    }

    public String LoggedUser() {
        String user=LoggedUserName.getText();
        return user;
    }

    public void ContactPageLink() {
        contactsLink.click();
    }

    public void ValidateDealsLink() {
        DealsLink.click();
    }
}
```

ContactPage Class

```
package com.PageLayer;

import org.openqa.selenium.WebElement;
import org.openqa.selenium.support.FindBy;
import org.openqa.selenium.support.PageFactory;

import com.BaseLayer.baseClass;

public class ContactPage extends baseClass {

    @FindBy(xpath="//a[@href='/contacts/new']")
    WebElement createUser;

    @FindBy(name="first_name")
    WebElement firstName;
```

```
@FindBy(name="last_name")
WebElement lastName;

@FindBy(name="middle_name")
WebElement middleName;

@FindBy(name="value")
WebElement emailId;

public ContactPage(){
    PageFactory.initElements(driver, this);
}

public void createUsers() {
    createUser.click();
}

public void enterFirstName(String firstname) {
    firstName.sendKeys(firstname);
}

public void enterLastName(String lname) {
    lastName.sendKeys(lname);
}

public void ValidateMiddleName(String mName)
{
    middleName.sendKeys(mName);
}

public void validateEmailTextBox(String abc) {
    emailId.sendKeys(abc);
}

}
```

DealsPage Class

```
package com.PageLayer;

import org.openqa.selenium.WebElement;
import org.openqa.selenium.support.FindBy;
import org.openqa.selenium.support.PageFactory;

import com.BaseLayer.baseClass;

public class DealsPage extends baseClass {

    @FindBy(xpath="//a[@href='/deals/new']")
    WebElement createDeals;

    @FindBy(name="title")
    WebElement title1;
```

Page Layer Package::

Login Page Class

```
package com.PageLayer;

import org.openqa.selenium.WebElement;
import org.openqa.selenium.support.FindBy;
import org.openqa.selenium.support.PageFactory;

import com.BaseLayer.baseClass;

public class LoginPage extends baseClass {
    // pom with page factory

    @FindBy(name = "email")
    WebElement username;

    @FindBy(name = "password")
    WebElement password;

    @FindBy(xpath="//*[text()='Login']")
    WebElement LoginButton;

    public LoginPage() {
        PageFactory.initElements(driver, this);
    }

    // associated methods for Object repositories using without Page factory
    public void usernameEnter(String uname) {
        username.sendKeys(uname);
    }

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

    public void clickOnLoginButton() {
        LoginButton.click();
    }
}
```

Test Layer Package

Login Page Test Class

```
package TestLayer;

import org.testng.annotations.AfterClass;
import org.testng.annotations.BeforeClass;
import org.testng.annotations.Test;

import com.BaseLayer.baseClass;
import com.PageLayer.LoginPage;

public class LoginPageTest extends baseClass {
    LoginPage loginpage;

    @BeforeClass
    public void setUp() {
        baseClass.initlization();
        loginpage = new LoginPage();
    }

    @Test
    public void ValidateLoginFunctionality() {
        loginpage.usernameEnter(prop.getProperty("username"));
        loginpage.passEnter(prop.getProperty("password"));
        loginpage.clickOnLoginButton();
    }

    @AfterClass
    public void tearDown() {
        driver.close();
    }
}
```

Home Page Test Class

```
package TestLayer;

import org.testng.Assert;
import org.testng.annotations.AfterClass;
import org.testng.annotations.BeforeClass;
import org.testng.annotations.Test;

import com.BaseLayer.baseClass;
import com.PageLayer.HomePage;
import com.PageLayer.LoginPage;

public class HomePageTest extends baseClass {
    LoginPage loginpage;
    HomePage homepage;

    @BeforeClass
    public void setUp() {
        baseClass.initlization();
        loginpage=new LoginPage();
        homepage=new HomePage();
    }

    @Test(priority=1)
    public void validateLoginFunctionality() {
        loginpage.usernameEnter("praf002@gmail.com");
        loginpage.passEnter("Pr@ful0812");
        loginpage.clickOnLoginButton();
    }

    @Test(priority=2)
    public void validateLoggedInUserName(){
        String loggeduser=homepage.LoggedUser();
        String expectedName="Praful Pawar";
        Assert.assertEquals(loggeduser,expectedName);
    }

    @Test(priority=3)
    public void validateContactLink() {
        homepage.ContactPageLink();
    }

    @Test(priority=4)
    public void validateDealsLink() {
        homepage.ValidateDealsLink();
    }

    @AfterClass
    public void tearDown() {
        driver.close();
    }
}
```

```
public DealsPage()
{
    PageFactory.initElements(driver, this);
}

public void validateCreateDeals() {
    createDeals.click();
}

public void validateTitleofDealsPage(String title) {
    title1.sendKeys(title);
}
```

Soft tech Classes

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```
praful pawar
loginpage.usernameEnter("praf002@gmail.com");
loginpage.passEnter("Pr@ful0812");
loginpage.clickOnLoginButton();
}

@Test(priority=2)
public void validateLoggedInUserName() throws InterruptedException {
    String loggeduser=homepage.LoggedUser();
    String expectedName="Praful Pawar";
    Assert.assertEquals(loggeduser,expectedName);
    Thread.sleep(5000);
}

@Test(priority=3)
public void validateDealsLink() {
    homepage.ValidateDealsLink();
}

@Test(priority=4)
public void validateCreateNewDealsUsers() {
    dealspage.validateCreateDeals();
}

@Test(priority=5)
public void validateTitleofDealsPage() {
    dealspage.validateTitleofDealsPage("Automation Testing");
}

@AfterClass
public void tearDown() {
    driver.close();
}
}
```

Contact Page Test Class

```
package TestLayer;

import org.testng.Assert;
import org.testng.annotations.AfterClass;
import org.testng.annotations.BeforeClass;
import org.testng.annotations.Test;

import com.BaseLayer.baseClass;
import com.PageLayer.ContactPage;
import com.PageLayer.HomePage;
import com.PageLayer.LoginPage;

public class ContactPageTest extends baseClass{

    LoginPageTest loginpagetest;
    LoginPage loginpage;
    HomePage homepage;
    ContactPage contactpage;

    @BeforeClass
    public void setUp() {
        baseClass.initilization();
        loginpage=new LoginPage();
        homepage=new HomePage();
        contactpage=new ContactPage();
        loginpagetest =new LoginPageTest();
    }

    @Test(priority=1)
    public void validateLoginFunctionality() {
        loginpage.usernameEnter("praf002@gmail.com");
        loginpage.passEnter("Pr@ful0812");
        loginpage.clickOnLoginButton();
    }

    @Test(priority=2)
    public void validateLoggedInUserName() throws InterruptedException {
        String loggeduser=homepage.LoggedUser();
        String expectedName="Praful Pawar";
        Assert.assertEquals(loggeduser, expectedName);
        Thread.sleep(5000);
    }

    @Test(priority=3)
    public void validateContactLink() {
        homepage.ContactPageLink();
    }

    @Test(priority=4)
    public void ValidateCreateNewUserInContactPage() {
        contactpage.createUsers();
    }

    @Test(priority=5)
    public void ValidateFirstNameIncontactPage() {
```

```
        contactpage.enterFirstName("amit");  
    }  
  
    @Test(priority=6)  
    public void ValidateMiddleNameIncontactPage() {  
        contactpage.ValidateMiddleName("pandit");  
    }  
  
    @Test(priority=7)  
    public void ValidateLastNameIncontactPage() {  
        contactpage.enterLastName("abc");  
    }  
  
    @Test(priority=8)  
    public void ValidateEmailIdIncontactPage() {  
        contactpage.validateEmailTextBox("abc@gmail.com");  
    }  
  
    @AfterClass  
    public void tearDown() {  
        driver.close();  
    }  
}
```

Deals Page Test Class

```
package TestLayer;  
  
import org.testng.Assert;  
import org.testng.annotations.AfterClass;  
import org.testng.annotations.BeforeClass;  
import org.testng.annotations.Test;  
  
import com.BaseLayer.baseClass;  
import com.PageLayer.ContactPage;  
import com.PageLayer.DealsPage;  
import com.PageLayer.HomePage;  
import com.PageLayer.LoginPage;  
  
public class DealsPageTest extends baseClass {  
  
    LoginPage loginpage;  
    HomePage homepage;  
    ContactPage contactpage;  
    DealsPage dealspage;  
  
    @BeforeClass  
    public void setUp() {  
        baseClass.initlization();  
        loginpage=new LoginPage();  
        homepage=new HomePage();  
        dealspage=new DealsPage();  
    }  
  
    @Test(priority=1)  
    public void validateLoginFunctionality() {
```