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Workspace1 - SDET3611-Selenium_Framework/src/test/java/org/vtiger/campaigns/CreateCampaignsTest.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
ExcelUtility.java CreateCampaignsTest.java
package org.vtiger.campaigns;

import org.openqa.selenium.By;

public class CreateCampaignsTest{
    public static void main(String[] args) throws Throwable {
        //create objects for Generic Utility
        FileUtility fileUtility=new FileUtility();
        JavaUtility javaUtility=new JavaUtility();
        ExcelUtility excelUtility=new ExcelUtility();
        WebDriverUtility webdriverUtility=new WebDriverUtility();

        //intiallize data from Property file
        fileUtility.intiallizePropertyFile(IConstants.VITIGERPROPERTYFILEPATH);

        //Generate the random number
        int randomNumber = javaUtility.getRandomNumber();

        //get the control for particular sheet in excel
        excelUtility.intiallizeExcelFile(IConstants.VTIGEREXCELFILEPATH);

        //Fetch the data from property file
        String browser=fileUtility.getDataFromProperty("browser");
        String userName=fileUtility.getDataFromProperty("username");
        String password=fileUtility.getDataFromProperty("password");
        String url=fileUtility.getDataFromProperty("url");
    }
}
```

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50
51 //intiallize the Explicit wait, Actions
52 webdriverUtility.intiallizeActions();
53
54 //navigating the application
55 webdriverUtility.openApplication(url);
56
57 //login to the app
58 driver.findElement(By.xpath("//input[@name='user_name']")).sendKeys(userName);
59 driver.findElement(By.xpath("//input[@name='user_password']")).sendKeys(password);
60 driver.findElement(By.xpath("//input[@id='submitButton']")).click();
61
62
63
64 WebElement moreElement = driver.findElement(By.xpath("//a[.='More']"));
65 webdriverUtility.mouseHoverOnElement(moreElement);
66 driver.findElement(By.xpath("//a[.='Campaigns']")).click();
67 driver.findElement(By.xpath("//img[@title='Create Campaign...']")).click();
68
69 driver.findElement(By.xpath("//input[@name='campaignname']")).sendKeys(expectedCampaignName);
70 driver.findElement(By.xpath("//input[@title='Save [Alt+S]']")).click();
71
72 String actualCampaignName = driver.findElement(By.xpath("//span[@id='dtlview_Campaign Name']")).getText();
73
74 if(actualCampaignName.equals(expectedCampaignName))
75 {
76     //webdriverUtility.printStatement("Campaign created successfully---> TC is Pass");
77 }
78
79
80
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```



```
29
30 //Fetch the data from property file
31 String browser=fileUtility.getDataFromProperty("browser");
32 String userName=fileUtility.getDataFromProperty("username");
33 String password=fileUtility.getDataFromProperty("password");
34 String url=fileUtility.getDataFromProperty("url");
35 String timeouts=fileUtility.getDataFromProperty("timeout");
36
37 //Fetch the data from Excel File
38 String expectedCampaignName = excelUtility.getDataFromExcel(2, 1,"Campaigns")+randomNumber;
39
40
41 //convert string to long
42 long longTimeout = javaUtility.convertStringToLong(timeouts);
43
44 //launching the browser in run time based on browser key
45 WebDriver driver = webdriverUtility.setupDriver(browser);
46
47 //pre-setting for the browser
48 webdriverUtility.maximizeBrowser();
49 webdriverUtility.implicitWait(longTimeout);
50
51 //intiallize the Explicit wait, Actions
52 webdriverUtility.intiallizeActions();
53
54 //navigating the application
55 webdriverUtility.openApplication(url);
```

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```
WebElement moreElement = driver.findElement(By.xpath("//a[.='More']"));
webdriverUtility.mouseHoverOnElement(moreElement);
driver.findElement(By.xpath("//a[.='Campaigns']")).click();
driver.findElement(By.xpath("//img[@title='Create Campaign...']")).click();

driver.findElement(By.xpath("//input[@name='campaignname']")).sendKeys(expectedCampaignName);
driver.findElement(By.xpath("//input[@title='Save [Alt+S]']")).click();

String actualCampaignName = driver.findElement(By.xpath("//span[@id='dtlview_Campaign Name']")).getText();
if(actualCampaignName.equals(expectedCampaignName))
{
    javaUtility.printStatement("Campaign created successfully---> TC is Pass");
}
else {
    javaUtility.printStatement("Campaign is not created---> TC is Fail");
}

WebElement administratorIcon = driver.findElement(By.xpath("//img[@src='themes/softed/images/user.PNG']"));
webdriverUtility.mouseHoverOnElement(administratorIcon);
driver.findElement(By.xpath("//a[.='Sign Out']")).click();
webdriverUtility.closeBrowser();
```


Workspace1 - SDET3611-Selenium_Framework/src/main/java/org/tyss/genericUtility/ExcelUtility.java - Eclipse IDE

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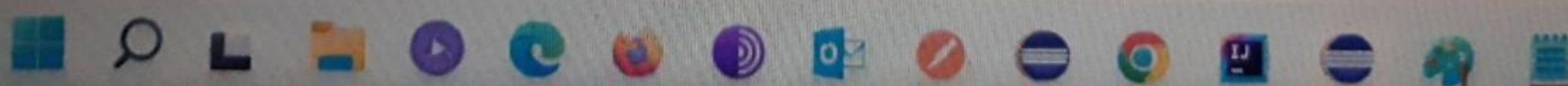
ExcelUtility.java 22

```
1 package org.tyss.genericUtility;
2
3 import java.io.FileInputStream;
12
13 /**
14  * This class contains reusable method for excel
15  * @author MOHAN GOWDA
16  *
17  */
18 public final class ExcelUtility {
19
20     private Workbook workbook;
21     /**
22      * This method is used to initialize the excel file
23      * @param excelPath
24      * @param sheetName
25      */
26     public void initializeExcelFile(String excelPath) {
27         FileInputStream fisExcel=null;
28
29         try {
30             fisExcel = new FileInputStream(excelPath);
31         } catch (FileNotFoundException e) {
32             e.printStackTrace();
33         }
34         try {
```

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Workspace1 - SDET3611 Selenium Framework/src/main/java/org/tyss/genencUtility/ExcelUtility.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
ExcelUtility.java
27 FileInputStream fisExcel=null;
28
29 try {
30     fisExcel = new FileInputStream(excelPath);
31 } catch (FileNotFoundException e) {
32     e.printStackTrace();
33 }
34 try {
35     workbook = WorkbookFactory.create(fisExcel);
36 } catch (EncryptedDocumentException | IOException e) {
37     e.printStackTrace();
38 }
39 }
40
41 /**
42  * This method is used Fetch the data from the Excel
43  * @param rowNumber
44  * @param cellNumber
45  * @param sheetName
46  * @return
47  */
48 public String getDataFromExcel(int rowNumber, int cellNumber, String sheetName) {
49     Sheet sheet = workbook.getSheet(sheetName);
50     return new DataFormatter().formatCellValue(sheet.getRow(rowNumber).getCell(cellNumber));
51 }
52

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```
File Edit Source Refactor Navigate Search Project Run Window Help
DatabaseUtility.java ExcelUtility.java FileUtility.java IConstants.java ... WebDriverUtility.java
77 }
78
79 /**
80  * This method is used to Mouse hover on Element
81  * @param element
82  */
83 public void mouseHoverOnElement(WebElement element) {
84     act.moveToElement(element).perform();
85 }
86
87 /**
88  * This method is used to close particular Browser
89  */
90 public void closeBrowser() {
91     driver.quit();
92 }
93
94 /**
95  * This method is used to close particular Tab
96  */
97 public void closeTab() {
98     driver.close();
99 }
100
101
102 }

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Taskbar icons: Windows, Search, File Explorer, Edge, Chrome, Firefox, VS Code, etc.
```



```
59 */
60 public void implicitWait(long longTimeout) {
61     driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(longTimeout));
62 }
63
64 /**
65  * This method is used to navigate the application
66  * @param url
67  */
68 public void openApplication(String url) {
69     driver.get(url);
70 }
71
72 /**
73  * This method is used to intiallize the Actions class
74  */
75 public void intiallizeActions() {
76     act=new Actions(driver);
77 }
78
79 /**
80  * This method is used to Mouse hover on Element
81  * @param element
82  */
83 public void mouseHoverOnElement(WebElement element) {
84     act.moveToElement(element).perform();
85 }
```

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```
File Edit Source Refactor Navigate Search Project Run Window Help
DashboardUtility.java ExcelUtility.java FileUtility.java Constants.java WebDriverUtility.java
41         break;
42     default:
43         System.out.println("You entered wrong Browser key in the Property file");
44         break;
45     }
46     return driver;
47 }
48
49 /**
50  * This method is used to maximize the browser
51  */
52 public void maximizeBrowser() {
53     driver.manage().window().maximize();
54 }
55
56 /**
57  * This method is used to wait the page by using implicit wait
58  * @param longTimeout
59  */
60 public void implicitWait(long longTimeout) {
61     driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(longTimeout));
62 }
63
64 /**
65  * This method is used to navigate the application
66  * @param url
67  */
68 public void navigateToUrl(String url) {
69     driver.get(url);
70 }
```

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```
Workspace1 - SDET361-Selenium_Framework/src/main/java/org/tyss/genencUtility/WebDriverUtility.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
DatabaseUtility.java ExcelUtility.java FileUtility.java IConstants.java WebDriverUtility.java

26  * @return
27  */
28  public WebDriver setupDriver(String browser) {
29      switch (browser) {
30          case "chrome":
31              WebDriverManager.chromedriver().setup();
32              driver=new ChromeDriver();
33              break;
34          case "firefox":
35              WebDriverManager.firefoxdriver().setup();
36              driver=new FirefoxDriver();
37              break;
38          case "ie":
39              WebDriverManager.iedriver().setup();
40              driver=new InternetExplorerDriver();
41              break;
42          default:
43              System.out.println("You entered wrong Browser key in the Property file");
44              break;
45      }
46      return driver;
47  }
48
49  /**
50   * This method is used to maximize the browser
51   */
```

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```
Workspace1 - SDET36L1-Selenium_Framework/src/main/java/org/tyss/genericUtility/WebDriverUtility.java
File Edit Source Refactor Navigate Search Project Run Window Help
DatabaseUtility.java ExcelUtility.java FileUtility.java IConstants.java WebDriverUtility.java
1 package org.tyss.genericUtility;
2
3 import java.time.Duration;
4
5 /**
6  * This class contains all the webdriver actions
7  * @author MOHAN GOWDA
8  *
9  */
10 public final class WebDriverUtility {
11     private WebDriver driver;
12     private Actions act;
13
14     /**
15      * This method is used to setup the driver instance
16      * @param browser
17      * @return
18      */
19     public WebDriver setupDriver(String browser) {
20         switch (browser) {
21             case "chrome":
22                 WebDriverManager.chromedriver().setup();
23                 driver=new ChromeDriver();
24                 break;
25             case "firefox":
26                 WebDriverManager.firefoxdriver().setup();
27                 driver=new FirefoxDriver();
28         }
29     }
30 }
```

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```
Workspace1 - SDET3611-Seelenium_Framework/src/main/java/org/tyss/genericUtility/JavaUtility.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
DatabaseUtility.java ExcelUtility.java FileUtility.java IConstants.java JavaUtility.java
12 * This method is used to generate the Random Number
13 * @param int
14 */
15 public int getRandomNumber() {
16     return new Random().nextInt(1000);
17 }
18
19 /**
20 * This method is used to convert the String to long data type
21 * @param stringData
22 * @return
23 */
24 public long convertStringToLong(String stringData) {
25     return Long.parseLong(stringData);
26 }
27
28 /**
29 * This method is used to print the values in console
30 * @param value
31 */
32 public void printStatement(String value) {
33     System.out.println(value);
34 }
35
36 }
37

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```



```
Workspace1 - SDET36L1-Selenium_Framework/src/main/java/org/tyss/genericUtility/JavaUtility.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
DatabaseUtility.java ExcelUtility.java FileUtility.java JavaUtility.java

1 package org.tyss.genericUtility;
2
3 import java.util.Random;
4
5 /**
6  * This class contains java reusable methods
7  * @author MOHAN GOWDA
8  *
9  */
10 public final class JavaUtility {
11     /**
12      * This method is used to generate the Random Number
13      * @param int
14      */
15     public int getRandomNumber() {
16         return new Random().nextInt(1000);
17     }
18
19     /**
20      * This method is used to convert the String to long data type
21      * @param stringData
22      * @return
23      */
24     public long convertStringToLong(String stringData) {
25         return Long.parseLong(stringData);
26     }
27 }
```

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```
DatabaseUtility.java  ExcelUtility.java  FileUtility.java
25     fis = new FileInputStream(file);
26 } catch (FileNotFoundException e) {
27     e.printStackTrace();
28 }
29 properties = new Properties();
30 try {
31     properties.load(fis);
32 } catch (IOException e) {
33     e.printStackTrace();
34 }
35
36
37
38 }
39
40 /**
41  * This method is used to fetch the data from property file
42  * @param key
43  * @return
44  */
45 public String getDataFromProperty(String key) {
46     return properties.getProperty(key).trim();
47 }
48
49 }
50
```

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```
Workspace1 - SDET3611-Selenium_Framework/src/main/java/org/tyss/genericUtility/FileUtility.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
DatabaseUtility.java ExcelUtility.java FileUtility.java
10 * @author MOHAN GOWDA
11 *
12 */
13 public final class FileUtility {
14
15     private Properties properties;
16
17
18     /**
19      * This method is used for intiallize the property file
20      * @param filePath
21      */
22     public void intiallizePropertyFile(String filePath) {
23         FileInputStream fis=null;
24         try {
25             fis = new FileInputStream(filePath);
26         } catch (FileNotFoundException e) {
27             e.printStackTrace();
28         }
29         properties = new Properties();
30         try {
31             properties.load(fis);
32         } catch (IOException e) {
33             e.printStackTrace();
34         }
35     }
36 }
```

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