

## Config.properties :

```
#Url: application website which we want to automate
url=https://relevel-ecomm-fe.herokuapp.com/

#Headless: mode in which we want to run the automation , yes to run the test
cases in background or headless mode ,
# No to run the test cases without headless mode
headless=No

#browser: chrome to run the test cases in chrome browser,
# safari to run the test case in safari browser
# Edge to run the test cases in edge browser
# Firefox to run the test cases in firefox browser
browser=CHROME

#implicitwait: time in seconds for selenium to search the web Elements
implicitWait = 10

#pageLoadTimeOut: time in seconds for the page to completely load
pageLoadTimeout = 20

#testDataFilePath: path of the test data file
testDataFilePath = src/main/resources/Electronics_Data.xlsx

#username : username of the login credentials
userName = test1

#password : password of the login credentials
password = test1
```

## Log4j.properties:

```
# Root logger option
log4j.rootLogger=INFO, file, stdout

# Direct log messages to a log file
log4j.appender.file=org.apache.log4j.RollingFileAppender
log4j.appender.file.File=Testlog.log
log4j.appender.file.MaxFileSize=10MB
log4j.appender.file.MaxBackupIndex=10
log4j.appender.file.layout=org.apache.log4j.PatternLayout
log4j.appender.file.layout.ConversionPattern=%d{yyyy-MM-dd HH:mm:ss} %-5p
%c{1}:%L - %m%n

# Direct log messages to stdout
log4j.appender.stdout=org.apache.log4j.ConsoleAppender
log4j.appender.stdout.Target=System.out
log4j.appender.stdout.layout=org.apache.log4j.PatternLayout
log4j.appender.stdout.layout.ConversionPattern=%d{yyyy-MM-dd HH:mm:ss} %-5p
%c{1}:%L - %m%n
```

## Excel Sheet – Data File :

|   | A             | B              | C     |
|---|---------------|----------------|-------|
| 1 | Category      | Product        | Price |
| 2 | Electronics   | s21            | 65000 |
| 3 | Kitchen Items | Prestige Stove | 14500 |
| 4 | Sports        | SG Bat         | 25500 |
| 5 |               |                |       |
| 6 |               |                |       |
| 7 |               |                |       |
| 8 |               |                |       |

## Package DataProvider -> ConfigfileReader Class :

```
package dataProvider;

import java.io.BufferedReader;
import java.io.FileNotFoundException;
import java.io.FileReader;
import java.util.Properties;

public class ConfigFileReader {

    private static Properties properties;

    private static final String propertyFilePath ="config.properties";

    static
    {
        BufferedReader bufferedReader;

        try
        {
            FileReader fileReader= new FileReader(propertyFilePath);
            bufferedReader = new BufferedReader(fileReader);
            properties = new Properties();

            try {
                properties.load(bufferedReader);
                bufferedReader.close();
            }
            catch (Exception e)
            {
                System.out.println("exception while reading the file:"+e);
            }
        }
        catch (FileNotFoundException e)
```

```
        {  
            System.out.println("File not found at the defined location :"+e);  
        }  
    }  
}
```

```
    public static String getUrl()  
    {  
        String url = properties.getProperty("url");  
        if(url!=null)  
            return url;  
    }
```

```
        else  
            throw new RuntimeException("url is not specified in the  
config.properties file");  
    }
```

```
    public static String getMode()  
    {  
        String mode = properties.getProperty("headless");  
        if(mode!=null)  
            return mode;  
        else  
            throw new RuntimeException("headless mode is not defined in to  
config.properties file");  
    }
```

```
    public static String getBrowser()  
    {  
        String browser = properties.getProperty("browser");  
        if(browser!=null)  
            return browser;  
        else  
            throw new RuntimeException("browser is not defined in to  
config.properties file");  
    }
```

```
    public static String getImplicitWait()  
    {  
        String implicitWait = properties.getProperty("implicitWait");  
        if(implicitWait!=null)  
            return implicitWait;  
        else  
            throw new RuntimeException("implicit wait is not defined in to  
config.properties file");  
    }
```

```
    public static String getPageLoadTimeOut()  
    {  
        String explicitWait = properties.getProperty("pageLoadTimeout");  
        if(explicitWait!=null)  
            return explicitWait;  
        else  
            throw new RuntimeException("explicit wait is not defined in to  
config.properties file");  
    }
```

```
    public static String getTestDataFilePath()  
    {  
        String testDataFilePath = properties.getProperty("testDataFilePath");  
        if(testDataFilePath!=null)  
            return testDataFilePath;  
        else  
            throw new RuntimeException("test data file path is not defined in to  
config.properties file");  
    }
```

```

public static String getUsername()
{
    String userName = properties.getProperty("userName");
    if(userName!=null)
        return userName;
    else
        throw new RuntimeException("username is not defined in to
config.properties file");
}

public static String getPassword()
{
    String password = properties.getProperty("password");
    if(password!=null)
        return password;
    else
        throw new RuntimeException("password is not defined in to
config.properties file");
}
}

```

## Package DataProvider ->ReadWriteExcelClass:

```

package dataProvider;

import org.apache.poi.xssf.usermodel.XSSFSheet;
import org.apache.poi.xssf.usermodel.XSSFWorkbook;

import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.io.IOException;

public class ReadWriteExcel {

    FileInputStream fileInputStream;
    XSSFWorkbook workbook;
    XSSFSheet sheet;

    public ReadWriteExcel() throws IOException {
        fileInputStream= new
FileInputStream(ConfigFileReader.getTestDataFilePath());
        workbook = new XSSFWorkbook(fileInputStream);
    }

    public XSSFSheet getSheet(String sheetName) {

        sheet = workbook.getSheet("Sheet1");
        return sheet;
    }
}

```

## ObjectManagerPackage -> DriverManager Class :

```
package ObjectManager;

import dataProvider.ConfigFileReader;
import io.github.bonigarcia.wdm.WebDriverManager;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.chrome.ChromeOptions;
import org.openqa.selenium.edge.EdgeDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.safari.SafariDriver;

import java.time.Duration;
import java.util.concurrent.TimeUnit;

public class DriverManager {

    private static WebDriver driver;

    public static WebDriver getDriver()
    {
        if(driver==null)
            createDriver();
        return driver;
    }

    private static void createDriver() {

        switch (ConfigFileReader.getBrowser().toUpperCase())
        {
            case "CHROME":

                ChromeOptions options = new ChromeOptions();
                if(ConfigFileReader.getMode().equalsIgnoreCase("YES"))
                {
                    options.addArguments("--headless");
                }
                WebDriverManager.chromedriver().setup();
                driver=new ChromeDriver(options);
                System.out.println("created the chrome driver");
                break;

            case "FIREFOX" :
                WebDriverManager.firefoxdriver().setup();
                driver=new FirefoxDriver();
                System.out.println("created the firefox driver");
                break;

            case "SAFARI" :

                WebDriverManager.safaridriver().setup();
                driver= new SafariDriver();
                System.out.println("created the safari driver");
                break;

            case "EDGE" :
                WebDriverManager.edgedriver().setup();
                driver= new EdgeDriver();
                System.out.println("created the edge driver");
                break;
        }
    }
}
```

```
default:
```

```
    System.out.println("no matching browser found");  
    break;
```

```
}
```

```
driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(Long.parseLong(ConfigFileReader.getImplicitWait())));
```

```
driver.manage().timeouts().pageLoadTimeout(Duration.ofSeconds(Long.parseLong(ConfigFileReader.getPageLoadTimeOut())));
```

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

```
    System.out.println("maximized the browser");
```

```
}
```

```
}
```