

Read Configurations from Property File

Property File in Selenium is a plain notepad file that are used to store the hard coded values (Ex. Browser Name, URL, User ID, password etc) in selenium.

Property File store the values in Key-value pair

Key = value

Example:

Username = xyz

File Extension of property File is .properties

For Comments ! or # is used

Advantages of Property File

If any information is changed from the properties file, you don't need to recompile the java class. In other words, the advantage of using properties file is we can configure things that are prone to change over a period of time without need of changing anything in code.

***For E.g.** We keep application Url in the property file, so in case you want to run test from on other test environment, just change the Url in a property file and that's it. You do not require to build the whole project again.*

Property File

```
url = https://opensource-demo.orangehrmlive.com/
username = Admin
password = admin123
```

Simple Program

```
package Property_File;
import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.util.Properties;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import io.github.bonigarcia.wdm.WebDriverManager;
public class Simple_property {
```

```

    public static void main(String[] args) throws FileNotFoundException, IOException,
    InterruptedException {
        WebDriverManager.chromedriver().setup();
        WebDriver driver = new ChromeDriver();
        driver.manage().window().maximize();
        String path = "C:\\Users\\Amol\\eclipse-
workspace_2\\Interview\\src\\main\\java\\Property_File\\config.properties";

        Properties prop=new Properties();
        prop.load(new FileInputStream(path));
        driver.get(prop.getProperty("url"));
        Thread.sleep(3000);

        driver.findElement(By.xpath("//input[@name =
'username']")).sendKeys(prop.getProperty("username"));
        driver.findElement(By.xpath("//input[@name =
'password']")).sendKeys(prop.getProperty("password"));
        driver.findElement(By.xpath("//button[@type = 'submit']")).click();
    }
}

```

Another Way to write

Create one class having main method & calling methods from Another class

```

package Property_File;

import java.io.IOException;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import io.github.bonigarcia.wdm.WebDriverManager;

public class Properties_File_Demo {
    public static void main(String[] args) throws InterruptedException, IOException {

        WebDriverManager.chromedriver().setup();
        WebDriver driver = new ChromeDriver();
        driver.manage().window().maximize();
        // driver.get("https://opensource-demo.orangehrmlive.com/");
        Thread.sleep(3000);

        Read_Property rs = new Read_Property();
        driver.get(rs.getURL());
        Thread.sleep(3000);
        WebElement username = driver.findElement(By.xpath("//input[@name = 'username']"));
        // username.sendKeys("Admin");
    }
}

```

```

        username.sendKeys(rs.getUsername());
        WebElement password = driver.findElement(By.xpath("//input[@name = 'password']"));
//        password.sendKeys("admin123");
        password.sendKeys(rs.getPassword());
        WebElement Login = driver.findElement(By.xpath("//button[@type = 'submit']"));
        Login.click();
    }
}

```

Create another class which having code of Property File

```

package Property_File;

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

public class Read_Property {

    Properties properties;
    String path = "C:\\Users\\Amol\\eclipse-
workspace_2\\Interview\\src\\main\\java\\Property_File\\config.properties";
    public Read_Property() throws IOException
    {
        properties = new Properties();
        FileInputStream fis = new FileInputStream(path);
        properties.load(fis);
    }
    public String getURL()
    {
        String url = properties.getProperty("url");
        return url;
    }
    public String getUsername()
    {
        String username = properties.getProperty("username");
        return username;
    }
    public String getPassword()
    {
        String password = properties.getProperty("password");
        return password;
    }
}

```