



Summary

- Java Library to read or write the data to MS Office application like PPT, Excel, word etc.,
- Supports dynamic data parameterization in selenium (data driven testing)

Pre-requisite

-to integrate the data files with Selenium, dependencies should be added to the pom.xml

```
<dependency>
  <groupId>org.apache.poi</groupId>
  <artifactId>poi</artifactId>
  <version>5.1.0</version>
</dependency>
<dependency>
  <groupId>org.apache.poi</groupId>
  <artifactId>poi-ooxml</artifactId>
  <version>5.1.0</version>
</dependency>
```

poi : to integrate excel sheet with .xls format(Excel 97-2003 workbook)

poi-ooxml: to integrate the excel sheet with .xlsx format(Xml formatted Excel Workbook >2003)

HSSFWorkbook: It is a high-level class under the **org.apache.poi.hssf.usermodel** package. It implements the Workbook interface and is used for Excel files in .xls format.

Components

XSSFWorkbook:

Constructs/identify the XSSFWorkbook object given the full path of a file

```
XSSFWorkbook wb = new XSSFWorkbook
(".data/Exclfile.xlsx")
```

XSSFSheet : class under the **org.apache.poi.xssf.usermodel** package. It can create excel spreadsheets and it allows to interact with the sheets

XSSFSheet *sheet* = *book*.getSheetAt(0);

getSheetAt(0);uses sheet index

getSheetName("sheet1"); uses sheet name

XSSFRow: This is a class under the **org.apache.poi.xssf.usermodel** package. It implements the Row interface, therefore it helps to access the rows in the Sheet

XSSFCell: This is a class under the **org.apache.poi.xssf.usermodel** package. It implements the Cell interface. therefore it helps to access the data in column wise

Methods with XSSF

getRow(): returns the row with the index starts from 0 from the given sheet(XSSFRow)

getLastRowNum(): returns the number of active rows in the given sheet(row with data) and excludes the first row in Excel sheet as it considers header by default(integer data)

getPhysicalNumberOfRows(): returns the defined physical number of rows (includes header)

getCell() : returns the cell with the index starts from 0 (represents the column number) from the given sheet(XSSFCell)

getLastCellNum(): returns the number of active column in the given sheet(columns with data) (integer data)



```
//Step:1->set the path for the excelsheet
XSSFWorkbook book=new XSSFWorkbook("./Excldata/SampleData.xlsx");

//Step:2->identify the sheet
XSSFSheet sheet = book.getSheetAt(0);

//book-->sheet->read the row-->col-->read the values
XSSFRow row = sheet.getRow(1);
XSSFCell cell = row.getCell(2);
String stringValue = cell.getStringCellValue();
System.out.println(stringValue);

int rowCount= sheet.getLastRowNum();//by default it considers the first row as header
System.out.println(rowCount);

int cellCount = row.getLastCellNum();
System.out.println(cellCount);

for (int i = 1; i <= rowCount; i++) {
    for (int j = 0; j < cellCount; j++) {
        //book-->sheet->read the row-->col-->read the values
        String datas = sheet.getRow(i).getCell(j).getStringCellValue();
        System.out.print(datas);
    }
}
```