**Apache POI:**

* Version – 5.0.0
* Maven Dependency

<!-- https://mvnrepository.com/artifact/org.apache.poi/poi -->

<dependency>

<groupId>org.apache.poi</groupId>

<artifactId>poi</artifactId>

<version>5.0.0</version>

</dependency>

* Primarily purpose of using this dependency is to integrate the java code with excel sheet. By this way, we can manipulate the excel sheet and do operation like read and write.
* It is a POI (Poor Obfuscation Implementation) library which is used to manipulate the Microsoft documents such as .xls and .xlsx. Additional information to note that it is written in java. (API)
* Two major operation were done using this Apache POI library. Those are:

1. Read Operation
2. Write Operation

**Read Operation:**

* XSSF – XML Spreadsheet Format
* Refer below code to read the data from excel sheet.

XSSFWorkbook wbook = new XSSFWorkbook(FileLocation to print);

XSSFSheet sheet = wbook.getSheet(0);

//XSSFSheet sheet = wbook.getSheet(Name); 🡪 Also give the sheet name as string

XSSFRow row = sheet.getRow(1); //Fetching the second row

XSSFCell cell = row.getCell(0); // Getting first cell from second row

String value = cell.getStringCellValue(); //this line will return only string value

Wbook.close();

* What if the sheet is dynamic and, in that case, how we are going to fetch all those data from excel. Use below code to manipulate those data.

Int LastRowNum = Sheet.getLastRowNum(); // Neglect header because header will contain the heading.

Int FirstRowNum = sheet.getFirstRowNum(); //

Int NoOfRows = Sheet.getPhysicalNumberOfRows(); // header will be taken in count.

Int LastCellNum = Sheet.getRow(0).getLastCellNum();

//below two lines will used to format the data from anything (number, boolean, char) to string.

DataFormatter dft = new DataFormatter();

String value = Dft.formatCellValue(cell);

**Write Operation:**

* Refer below code to write the data into excel sheet.

XSSFWorkbook wbook = new XSSFWorkbook(FileLocation to print);

XSSFSheet sheet = wbook.getSheet(0); // Also give the sheet name as string