

## madan712 / ReadWriteExcelFile.java

Created 6 years ago

Read / Write Excel file (.xls or .xlsx) using Apache POI

```
ReadWriteExcelFile.java
       import java.io.FileInputStream;
       import java.io.FileOutputStream;
       import java.io.IOException;
       import java.io.InputStream;
       import java.util.Iterator;
       import org.apache.poi.hssf.usermodel.HSSFCell;
       import org.apache.poi.hssf.usermodel.HSSFRow;
       import org.apache.poi.hssf.usermodel.HSSFSheet;
  10
       import org.apache.poi.hssf.usermodel.HSSFWorkbook;
        import org.apache.poi.xssf.usermodel.XSSFCell;
        import org.apache.poi.xssf.usermodel.XSSFRow;
        import org.apache.poi.xssf.usermodel.XSSFSheet;
        import org.apache.poi.xssf.usermodel.XSSFWorkbook;
        public class ReadWriteExcelFile {
  18
                public static void readXLSFile() throws IOException
                {
                        InputStream ExcelFileToRead = new FileInputStream("C:/Test.xls");
                        HSSFWorkbook wb = new HSSFWorkbook(ExcelFileToRead);
                        HSSFSheet sheet=wb.getSheetAt(0);
  24
                        HSSFRow row;
                        HSSFCell cell;
                        Iterator rows = sheet.rowIterator();
  29
  30
                        while (rows.hasNext())
  31
                                row=(HSSFRow) rows.next();
                                Iterator cells = row.cellIterator();
  34
  35
                                while (cells.hasNext())
  36
                                {
                                        cell=(HSSFCell) cells.next();
  38
  39
                                        if (cell.getCellType() == HSSFCell.CELL_TYPE_STRING)
  40
  41
                                                System.out.print(cell.getStringCellValue()+" ");
  42
                                        }
  43
                                        else if(cell.getCellType() == HSSFCell.CELL_TYPE_NUMERIC)
  44
                                        {
                                                System.out.print(cell.getNumericCellValue()+" ");
  45
  46
                                        }
  47
  48
                                        {
                                                //U Can Handel Boolean, Formula, Errors
  50
                                System.out.println();
                        }
  54
  56
                public static void writeXLSFile() throws IOException {
  59
                        String excelFileName = "C:/Test.xls";//name of excel file
  60
                        String sheetName = "Sheet1";//name of sheet
```

```
63
                      HSSFWorkbook wb = new HSSFWorkbook();
                      HSSFSheet sheet = wb.createSheet(sheetName) ;
                      //iterating r number of rows
 67
                      for (int r=0;r < 5; r++ )
 68
                              HSSFRow row = sheet.createRow(r):
                               //iterating c number of columns
                               for (int c=0;c < 5; c++ )</pre>
 74
                                       HSSFCell cell = row.createCell(c);
 76
                                       cell.setCellValue("Cell "+r+" "+c);
                              }
 78
                      }
 79
 80
                      FileOutputStream fileOut = new FileOutputStream(excelFileName);
 81
                      // {\tt write\ this\ workbook\ to\ an\ Outputstream.}
 82
 83
                      wb.write(fileOut);
 84
                      fileOut.flush();
 85
                      fileOut.close();
 86
              }
 87
 88
              public static void readXLSXFile() throws IOException
 89
                      InputStream ExcelFileToRead = new FileInputStream("C:/Test.xlsx");
 90
 91
                      XSSFWorkbook wb = new XSSFWorkbook(ExcelFileToRead);
 92
 93
                      XSSFWorkbook test = new XSSFWorkbook();
                      XSSFSheet sheet = wb.getSheetAt(0);
 95
                      XSSFRow row;
 96
 97
                      XSSFCell cell;
98
                      Iterator rows = sheet.rowIterator();
99
100
101
                      while (rows.hasNext())
102
                               row=(XSSFRow) rows.next();
                               Iterator cells = row.cellIterator();
104
105
                               while (cells.hasNext())
106
                                       cell=(XSSFCell) cells.next();
                                       if (cell.getCellType() == XSSFCell.CELL_TYPE_STRING)
109
110
                                       {
                                               System.out.print(cell.getStringCellValue()+" ");
                                       }
                                       else if(cell.getCellType() == XSSFCell.CELL_TYPE_NUMERIC)
114
                                       {
                                               System.out.print(cell.getNumericCellValue()+" ");
                                       }
                                       else
118
                                       {
119
                                               //U Can Handel Boolean, Formula, Errors
                                       }
                              }
                              System.out.println();
              }
126
              public static void writeXLSXFile() throws IOException {
128
                      String excelFileName = "C:/Test.xlsx";//name of excel file
130
                      String sheetName = "Sheet1";//name of sheet
                      XSSFWorkbook wb = new XSSFWorkbook();
                      XSSFSheet sheet = wb.createSheet(sheetName) ;
```

62

```
136
                      //iterating r number of rows
                      for (int r=0; r < 5; r++ )
                              XSSFRow row = sheet.createRow(r);
140
141
                              //iterating c number of columns
142
                              for (int c=0;c < 5; c++ )</pre>
                              {
                                       XSSFCell cell = row.createCell(c);
145
146
                                       cell.setCellValue("Cell "+r+" "+c);
                              }
                      }
149
150
                      FileOutputStream fileOut = new FileOutputStream(excelFileName);
                      //write this workbook to an Outputstream.
                      wb.write(fileOut);
154
                      fileOut.flush();
                      fileOut.close();
              }
158
              public static void main(String[] args) throws IOException {
159
                      writeXLSFile();
                      readXLSFile();
162
163
                      writeXLSXFile();
                      readXLSXFile();
166
              }
167
168
```



She110ck commented on 13 Aug 2015

thank you ;)



bibekkumar005 commented on 28 Aug 2015

please write the dependency .....having trouble when including POI jars for hssf and xssf



hermanwhyd commented on 8 Sep 2015

@bibekkumar005 may be this is you needed:

please write the dependency .....having trouble when including POI jars for hssf and xssf



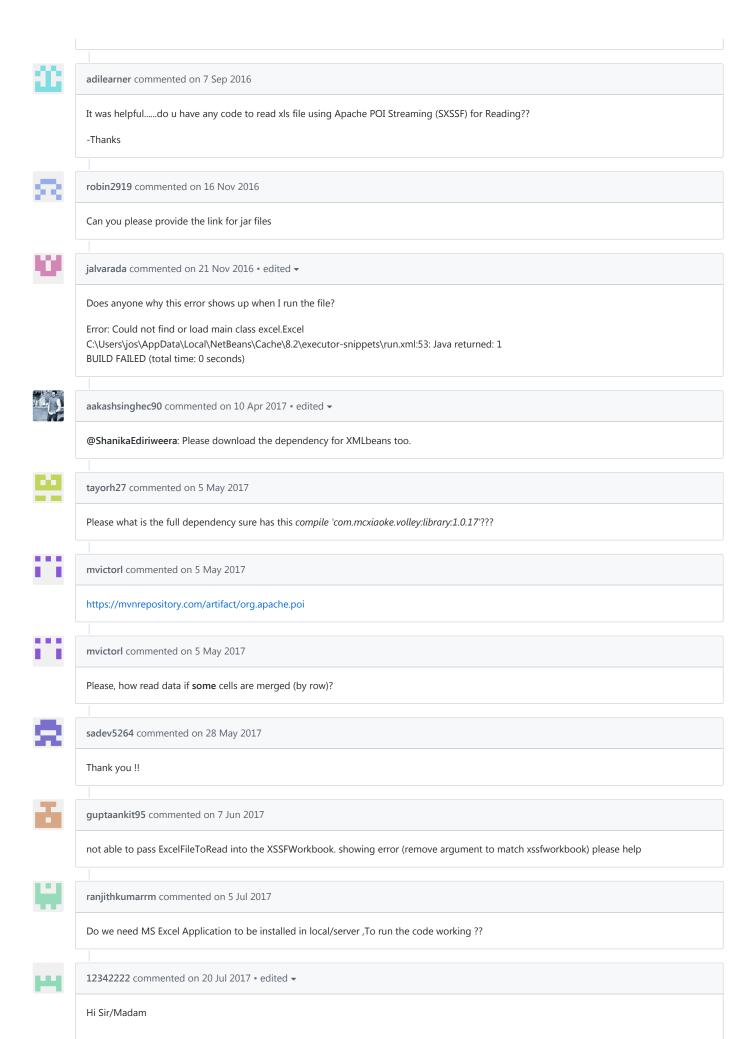
vijiniL commented on 30 Dec 2015

Thank you :)



willykraisler commented on 25 Jan 2016

Thank you man 👍 SantiMA10 commented on 4 Feb 2016 very helpful Sourav0512 commented on 15 Mar 2016 Type mismatch: cannot convert from Iterator to Descriptor.Iterator getting this error nguyendangnghiem commented on 17 Mar 2016 +1 thank you !!! zhvaleuskaya commented on 18 Apr 2016 thank you hendisantika commented on 28 Apr 2016 Thank you very much. It helps me a lot. It save my time. CodeMines commented on 2 May 2016 Which version of poi you have used ShreeshaN commented on 5 May 2016 Thanks man! ouyang111 commented on 20 May 2016 thanks ouyang111 commented on 20 May 2016 very helpful jcgofredo commented on 25 May 2016 thank you! 👍 4...4 pontiyaraja commented on 26 May 2016 Thank you ShanikaEdiriweera commented on 28 May 2016 .xlsx reader and writer is not working. java.lang. Class Not Found Exception: or g. apache. xml beans. Xml Object



xlsx(Excel) format file Read content issues that attaching file from Email and store into local drive, Please any help on this and that really appreciated.

## Below java code now we are using

```
String contentType = message.getContentType();
                                                                                       String attachFiles = "";
// String\ save Directory = (String)\ resources.get (SystemRqstAppConstants. WebConstants. CUSTOMERITEM VENDOR PO_PATH);
String saveDirectory = "D:/ResumeFiles/";
List errorsList= null;
String messageContent = "";
logger.info("::::Timecards Auto Update before Attchments:::::");
if (contentType.contains("multipart")) {
// content may contain attachments
String client="";
if(subject.contains("PFIZER") || subject.contains("Pfizer") || subject.contains("pfizer"))
client="Pfizer";
else if(subject.contains("CSC") || subject.contains("Csc") || subject.contains("csc"))
client="CSC";
logger.info("Timecards Auto Update client name: "+client);
Multipart multiPart = (Multipart) message.getContent();
int numberOfParts = multiPart.getCount();
for (int partCount = 0; partCount < numberOfParts; partCount++) {
MimeBodyPart part = (MimeBodyPart) multiPart.getBodyPart(partCount);
if (Part.ATTACHMENT.equalsIgnoreCase(part.getDisposition())) {
// this part is attachment
fileName = part.getFileName();
attachFiles += fileName + ", ";
saveDirectory = saveDirectory+client+"/";
File folder = new File(saveDirectory);
if(!folder.exists())
folder.mkdir();
String destFilePath = saveDirectory+fileName;
logger.info("Timecards Auto Update destFilePath: "+destFilePath);
FileOutputStream fileOutStream = new FileOutputStream(destFilePath);
                                                                                               byte abyte0[] = new byte[4096];
                                                                                                        int length=0;
                                                                                                        input = part.getInputStream();
                                                                                                        DataInputStream in = new
  DataInputStream(input);
                                                                                                        while ((in != null) && ((length =
  in.read(abyte0)) != -1)){
  fileOutStream.write(abyte0, 0, length);
                                                                                                    input.close();
                                                                                                        in.close();
// my_xlsx_workbook.write(fileOutStream);
fileOutStream.flush();
fileOutStream.close();
  Thanks in Advance
  Rama
```



prs978 commented on 25 Jul 2017

unable to save as the xlsx file by using the Apache POI Objects and other java logic and please help on this that really great appreciation. Regards

Rama



amisiuryk commented on 10 Aug 2017

@prs978 To create xlsx file you have to use XSSF\*\*\*\* files instead of HSSF\*



Hi.

I am facing this error while executing the above code.

Cell 0 0 Cell 0 1 Cell 0 2 Cell 0 3 Cell 0 4

Cell 1 0 Cell 1 1 Cell 1 2 Cell 1 3 Cell 1 4

Cell 2 0 Cell 2 1 Cell 2 2 Cell 2 3 Cell 2 4

Cell 3 0 Cell 3 1 Cell 3 2 Cell 3 3 Cell 3 4

Cell 4 0 Cell 4 1 Cell 4 2 Cell 4 3 Cell 4 4

Exception in thread "main" java.lang. No Class DefFound Error: org/openxml for mats/schemas/spread sheetml/x 2006/main/CTS heet thread threa

at com.ReadWrite.Excel.ReadWriteExcelFile.writeXLSXFile(ReadWriteExcelFile.java:135)

at com.ReadWrite.Excel.ReadWriteExcelFile.main(ReadWriteExcelFile.java:165)

Caused by: java.lang.ClassNotFoundException: org.openxmlformats.schemas.spreadsheetml.x2006.main.CTSheet

at java.net.URLClassLoader.findClass(Unknown Source)

at java.lang.ClassLoader.loadClass(Unknown Source)

at sun.misc.Launcher\$AppClassLoader.loadClass(Unknown Source)

at java.lang.ClassLoader.loadClass(Unknown Source)

... 2 more



arvindbakaya commented on 19 Sep 2017

I get the below error while running this code:

Exception in thread "main" java.lang.NoSuchFieldError: RETURN\_NULL\_AND\_BLANK

at org.apache.poi.xssf.usermodel.XSSFWorkbook.(XSSFWorkbook.java:147)

at excelExportAndFileIO.ReadExcelFile.writeXLSXFile(ReadExcelFile.java:136)

 $at\ excel Export And File IO. Read Excel File. main (Read Excel File. java: 166)$ 



arjunpatelcs13 commented on 5 Oct 2017

great Thanks



jenniferzoe123 commented on 17 Oct 2017

I am loading a large 5000 row excell file with extention .xlsx, it takes more time maybe more than 10 mins, how to dignose this issue, i am using your above function readXLSXFile(), Plz help.



vikassun commented on 8 Nov 2017

Hi Madan,

Very helpful Example. Thanks a lot.

Please help me solving one issue i am facing while incorporating your code in one of my project!!

--> Reading .xlsx file

code does work when i run this code from independent fresh dynamic web project. But it does not work when i run from my existing project!

I am working on some client Project where it was required to have this functionality of reading .xlsx file where i tried incorporating this code but it cries with ERROR!! When i placed reading .xls code it is perfectly working.

Note: a) I have used same POI jar in my independent dynamic web project and in client Project.

b) When i coped and run .xls code it does work in Client Project as well whereas .xlsx code does not

```
ERROR Message I get
java.lang.NoSuchFieldError: OOXML_FILE_HEADER
at org.apache.poi.poifs.filesystem.FileMagic.(FileMagic.java:40)
at org.apache.poi.openxml4j.opc.internal.ZipHelper.openZipStream(ZipHelper.java:208)
at org.apache.poi.openxml4j.opc.ZipPackage.(ZipPackage.java:98)
at org.apache.poi.openxml4j.opc.OPCPackage.open(OPCPackage.java:324)
at org.apache.poi.util.PackageHelper.open(PackageHelper.java:37)
at org.apache.poi.xssf.usermodel.XSSFWorkbook.(XSSFWorkbook.java:295)
at com.ibm.ericsson.pdm.webapp.action.SearchProductAction.baseExecute(SearchProductAction.java:167)
at com.ibm.ericsson.pdm.webapp.BASEAction.execute(BASEAction.java:100)
at org.apache.struts.chain.commands.servlet.ExecuteAction.execute(ExecuteAction.java:58)
at\ org. apache. struts. chain. commands. Abstract Execute Action. execute (Abstract Execute Action. java: 67)
at\ org. apache. struts. chain. commands. Action Command Base. execute (Action Command Base. java: 51)
at org.apache.commons.chain.impl.ChainBase.execute(ChainBase.java:190)
at org.apache.commons.chain.generic.LookupCommand.execute(LookupCommand.java:304)
at org.apache.commons.chain.impl.ChainBase.execute(ChainBase.java:190)
at\ org. apache. struts. chain. Composable Request Processor. process (Composable Request Processor. java: 283)
at org.apache.struts.action.ActionServlet.process(ActionServlet.java:1913)
at org.apache.struts.action.ActionServlet.doGet(ActionServlet.java:449)
at\ javax.servlet.http. Http Servlet.service (Http Servlet.java: 624)
at\ javax.servlet.http. HttpServlet.service (HttpServlet.java:731)
at\ org. apache. catalina. core. Application Filter Chain. internal Do Filter (Application Filter Chain. java: 303)
at\ org. apache. catalina. core. Application Filter Chain. do Filter (Application Filter Chain. java: 208)
at org.apache.tomcat.websocket.server.WsFilter.doFilter(WsFilter.java:52)
at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:241)
at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:208)
at\ com. ibm. erics son. pdm. we bapp. Authentication Filter. do Filter (Authentication Filter. java: 125)
at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:241)
at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:208)
at org.apache.catalina.core.StandardWrapperValve.invoke(StandardWrapperValve.java:218)
at org.apache.catalina.core.StandardContextValve.invoke(StandardContextValve.java:110)
at org.apache.catalina.authenticator.AuthenticatorBase.invoke(AuthenticatorBase.java:506)
at org.apache.catalina.core.StandardHostValve.invoke(StandardHostValve.java:169)
at org.apache.catalina.valves.ErrorReportValve.invoke(ErrorReportValve.java:103)
at org.apache.catalina.valves.AccessLogValve.invoke(AccessLogValve.java:962)
at org.apache.catalina.core.StandardEngineValve.invoke(StandardEngineValve.java:116)
at org.apache.catalina.connector.CoyoteAdapter.service(CoyoteAdapter.java:445)
at org.apache.coyote.http11.AbstractHttp11Processor.process(AbstractHttp11Processor.java:1115)
at org.apache.coyote.AbstractProtocol$AbstractConnectionHandler.process(AbstractProtocol.java:637)
at org.apache.tomcat.util.net.JIoEndpoint$SocketProcessor.run(JIoEndpoint.java:316)
at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1145)
at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:615)
at\ org. apache. tomcat. util. threads. Task Thread \$W rapping Runnable. run (Task Thread. java: 61)
at java.lang.Thread.run(Thread.java:745)
I am using apache POI 3.17 lib..
My doubt: its a struts 1 Project, might be some where some jars are clashed
Pls help
```



chintamahesh commented on 22 Nov 2017

Many Thanks



callicoder commented on 27 Dec 2017 • edited ▼

This is great. But It's better to use a Workbook Factory to create a Workbook instance. This way, you won't need to use format specific classes like HSSFWorkbook and XSSFWorkbook and your program will work for both .xls and .xlsx files without writing separate methods.

```
System.out.println();
});
}
```

The complete code can be found at The CalliCoder Blog.



baofengyv commented on 31 Jan

Thank you!



XxZhang2017 commented on 3 Feb

I add the xmlbeas-2.60.jar. But I get this error. WARNING: Illegal reflective access by org.apache.poi.util.DocumentHelper (file:/Users/zhangxue/java\_lib/poi-3.17/poi-ooxml-3.17.jar) to method com.sun.org.apache.xerces.internal.util.SecurityManager.setEntityExpansionLimit(int)



SoumiaMokrane commented on 11 Feb

Slt;

I have a problem in my code :

Exception in thread "AWT-EventQueue-0" org.apache.poi.poifs.filesystem.OfficeXmlFileException: The supplied data appears to be in the Office 2007+ XML. You are calling the part of POI that deals with OLE2 Office Documents. You need to call a different part of POI to process this data (eg XSSF instead of HSSF)

```
(eg XSSF instead of HSSF)
this is my code , please help me \,
` try {
//here f : is file generate from JTextField
InputStream fis = new FileInputStream(f);
HSSFWorkbook workbook= new HSSFWorkbook(fis);
HSSFSheet sheet = workbook.getSheetAt(0);
FormulaEvaluator forlulaEvaluator = workbook.getCreationHelper().createFormulaEvaluator();
for (Row row: sheet) {
for (Cell cell: row) {
switch (for lula Evaluator. evaluate In Cell (cell). get Cell Type ()) \{\\
case Cell.CELL_TYPE_NUMERIC:
System.out.println(cell.getNumericCellValue() + "\t'");
break;
case Cell.CELL_TYPE_STRING:
System.out.println(cell.getStringCellValue() + "\t\");
break;
```

```
}
} catch (FileNotFoundException ex) {
   Logger.getLogger(Main.class.getName()).log(Level.SEVERE, null, ex);
} catch (IOException ex) {
   Logger.getLogger(Main.class.getName()).log(Level.SEVERE, null, ex);
}`
```



SoumiaMokrane commented on 11 Feb

Thanks

}

I fond a solution :)



kkgouda commented 26 days ago

Hi,

Please share all the apache poi dependency maven.