Servlets + JDBC + Excel Export

Apache POI Link:

 https://archive.apache.org/dist/poi/release/bin/poi-bin-4.0.0-20180907.zip

1)MODEL CLASS:-

```java
package com.app;

public class Student {

    private int slno;
    private String sname;
    private String course;
    private double sfee;

    public Student() {
        super();
    }


    public Student(int slno, String sname, String course, double sfee) {
        super();
        this.slno = slno;
        this.sname = sname;
        this.course = course;
        this.sfee = sfee;
    }


    public int getSlno() {
        return slno;
    }
    public void setSlno(int slno) {
        this.slno = slno;
```

```java
        }
        public String getSname() {
                return sname;
        }
        public void setSname(String sname) {
                this.sname = sname;
        }
        public String getCourse() {
                return course;
        }
        public void setCourse(String course) {
                this.course = course;
        }
        public double getSfee() {
                return sfee;
        }
        public void setSfee(double sfee) {
                this.sfee = sfee;
        }
        @Override
        public String toString() {
                return "Student [slno=" + slno + ", sname=" + sname + ", course=" +
course + ", sfee=" + sfee + "]";
        }

}
```

2. JDBC CODE:-

```java
package com.app;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.util.ArrayList;
```

```java
import java.util.List;

public class StudentJdbc {

    public static List<Student> getAllStudents() {
        String sql="select * from students";
        List<Student> list=null;
        try {
            Class.forName("oracle.jdbc.driver.OracleDriver");
            Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:ORCL","sathya", "sathya");
            PreparedStatement pstmt=con.prepareStatement(sql);
            ResultSet rs=pstmt.executeQuery();

            list=new ArrayList<>();
            while(rs.next()) {
                list.add(
                new Student(
                        rs.getInt(1),
                        rs.getString(2),
                        rs.getString(3),
                        rs.getDouble(4))
                );
            }

        } catch (Exception e) {
            e.printStackTrace();
        }
        return list;
    }
}
```

3. SERVLET CLASS:-

```java
package com.app;

import java.io.IOException;
import java.util.List;

import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import org.apache.poi.hssf.usermodel.HSSFRow;
import org.apache.poi.hssf.usermodel.HSSFSheet;
import org.apache.poi.hssf.usermodel.HSSFWorkbook;

public class StudentDataServlet extends HttpServlet{

    public void doGet(HttpServletRequest req,
                HttpServletResponse resp)
    throws ServletException,IOException{

        resp.setContentType("application/vnd.ms-excel");
        resp.addHeader("Content-Disposition",
"attachment;filename=students.xls");
        try {
                //1. Create Book
                HSSFWorkbook book=new HSSFWorkbook();
                //2. create sheet with any name
                HSSFSheet sheet=book.createSheet("STUDENTS");
                //3. Create multiple
                HSSFRow r1=sheet.createRow(0);
                //4. create Cells
                r1.createCell(0).setCellValue("SLNO");
                r1.createCell(1).setCellValue("NAME");
                r1.createCell(2).setCellValue("COURSE");
                r1.createCell(3).setCellValue("FEE");
```

```java
                //call JDBC
                List<Student> list=StudentJdbc.getAllStudents();
                int count=1;
                for(Student s:list) {
                        HSSFRow r=sheet.createRow(count);
                        r.createCell(0).setCellValue(s.getSlno());
                        r.createCell(1).setCellValue(s.getSname());
                        r.createCell(2).setCellValue(s.getCourse());
                        r.createCell(3).setCellValue(s.getSfee());
                        count=count+1;
                }


                //5. Write to OutputStream
                book.write(resp.getOutputStream());

                //6. close
                book.close();

        } catch (Exception e) {
                e.printStackTrace();
        }
    }

}
```

WEB.XML:-
```xml
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns="http://java.sun.com/xml/ns/javaee"
xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd"
id="WebApp_ID" version="2.5">
  <servlet>
     <servlet-name>eds</servlet-name>
     <servlet-class>com.app.ExcelDataServlet</servlet-class>
  </servlet>
```

```
   <servlet-mapping>
      <servlet-name>eds</servlet-name>
      <url-pattern>/myexcel</url-pattern>
   </servlet-mapping>
</web-app>
```

FB: