**Emplyees.jrxml :**

<?xml version="1.0" encoding="UTF-8"?>

<!-- Created with Jaspersoft Studio version 6.10.0.final using JasperReports Library version 6.10.0-unknown -->

<jasperReport xmlns="http://jasperreports.sourceforge.net/jasperreports" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://jasperreports.sourceforge.net/jasperreports http://jasperreports.sourceforge.net/xsd/jasperreport.xsd" name="employee" pageWidth="595" pageHeight="842" columnWidth="535" leftMargin="20" rightMargin="20" topMargin="20" bottomMargin="20" uuid="032e7eb0-4d91-4d0a-8407-542225b299d0">

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<property name="com.jaspersoft.studio.field.label" value="ORDERID"/>

<property name="com.jaspersoft.studio.field.tree.path" value="ORDERS"/>

</field>

<field name="name" class="java.lang.String">

<property name="com.jaspersoft.studio.field.label" value="CUSTOMERID"/>

<property name="com.jaspersoft.studio.field.tree.path" value="ORDERS"/>

</field>

<field name="designation" class="java.lang.String">

<property name="com.jaspersoft.studio.field.label" value="EMPLOYEEID"/>

<property name="com.jaspersoft.studio.field.tree.path" value="ORDERS"/>

</field>

<field name="salary" class="java.lang.Double">

</field>

<field name="doj" class="java.lang.String">

</field>

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</background>

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</summary>

</jasperReport>

**Employee.java:**

package com.clc.demo.model;

import javax.persistence.Entity;

import javax.persistence.Id;

@Entity

public class Employee {

@Id

private int id;

private String doj;

private String name;

private String designation;

private double salary;

public int getId() {

return id;

}

public void setId(int id) {

this.id = id;

}

public String getDoj() {

return doj;

}

public void setDoj(String doj) {

this.doj = doj;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public String getDesignation() {

return designation;

}

public void setDesignation(String designation) {

this.designation = designation;

}

public double getSalary() {

return salary;

}

public void setSalary(double salary) {

this.salary = salary;

}

}

**ReportService.java :**

package com.clc.demo.service;

import java.io.File;

import java.io.FileNotFoundException;

import java.sql.Connection;

import java.util.HashMap;

import java.util.List;

import java.util.Map;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.stereotype.Service;

import org.springframework.util.ResourceUtils;

import com.clc.demo.model.Employee;

import com.clc.demo.repository.EmployeeRepository;

import net.sf.jasperreports.engine.JRException;

import net.sf.jasperreports.engine.JasperCompileManager;

import net.sf.jasperreports.engine.JasperExportManager;

import net.sf.jasperreports.engine.JasperFillManager;

import net.sf.jasperreports.engine.JasperPrint;

import net.sf.jasperreports.engine.JasperReport;

import net.sf.jasperreports.engine.data.JRBeanCollectionDataSource;

@Service

public class ReportService {

@Autowired

private EmployeeRepository repository;

public String exportReport(String reportFormat) throws FileNotFoundException, JRException {

String path="D:\\final project data\\pdf output"; // generate pdf file to this path

List<Employee>employees=repository.findAll();

File file=ResourceUtils.getFile( "classpath:Employee.jrxml"); //it will load file which is created using jasper studio

JasperReport jasperReport=JasperCompileManager.compileReport(file.getAbsolutePath()); // compile file using compileReport() and provide path

JRBeanCollectionDataSource datasouce=new JRBeanCollectionDataSource(employees); //get those employees data map tp report

Map<String,Object> parameters=new HashMap<> ();

parameters.put("created by", "easyEmi");

JasperPrint jasperprint=JasperFillManager.fillReport(jasperReport, parameters,datasouce);

// in which format we want to print data

if(reportFormat.equalsIgnoreCase("html"))

{

JasperExportManager.exportReportToHtmlFile(jasperprint,path+"\\employees.html");

}

if(reportFormat.equalsIgnoreCase("pdf"))

{

JasperExportManager.exportReportToPdfFile(jasperprint,path+"\\employees.pdf");

}

return "generated in path"+path;

}

}

**HomeController.java :**

package com.clc.demo.controller;

import java.io.FileNotFoundException;

import java.util.List;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.web.bind.annotation.GetMapping;

import org.springframework.web.bind.annotation.PathVariable;

import org.springframework.web.bind.annotation.RestController;

import com.clc.demo.model.Employee;

import com.clc.demo.repository.EmployeeRepository;

import com.clc.demo.service.ReportService;

import net.sf.jasperreports.engine.JRException;

@RestController

public class HomeController {

@Autowired

private EmployeeRepository er;

@Autowired

private ReportService service;

@GetMapping("/getEmployees") //this will map our data to /getEmployees

public List<Employee> getEmployees() //this method fetch the data from our database

{

return er.findAll();

}

@GetMapping("/report/{format}")

public String generateReport(@PathVariable String format) throws FileNotFoundException,JRException

{

return service.exportReport(format);

}}

**EmployeeRepository.java :**

package com.clc.demo.repository;

import org.springframework.data.jpa.repository.JpaRepository;

import com.clc.demo.model.Employee;

public interface EmployeeRepository extends JpaRepository<Employee, Integer> {

}