**Spring Boot Emp App**

Create a new spring starter project

Choose dependency web.jpa,mysql

From SpringHibernateAnnotation copy dao and entity class files

Ceate 2 user defined xception under dao package

**package** com.hexa.dao;

**public** **class** IdException **extends** Exception{

**public** IdException(String message, Throwable cause) {

**super**(message, cause);

// **TODO** Auto-generated constructor stub

}

**public** IdException(String message) {

**super**(message);

// **TODO** Auto-generated constructor stub

}

}

**package** com.hexa.dao;

**public** **class** NotFoundException **extends** Exception{

**public** NotFoundException(String message, Throwable cause) {

**super**(message, cause);

// **TODO** Auto-generated constructor stub

}

**public** NotFoundException(String message) {

**super**(message);

// **TODO** Auto-generated constructor stub

}

}

package com.hexa.dao;

import java.util.List;

import com.hexa.entity.Dept;

import com.hexa.entity.Emp;

public interface EmpDao {

List<Dept> getDepartments();

List<Emp> getEmployees();

List<Emp> getEmployees(int did);

Emp getEmployee(int eid) throws NotFoundException;

int addEmployee(Emp emp) throws IdException;

}

package com.hexa.dao;

import java.util.List;

import org.hibernate.HibernateException;

import org.hibernate.Query;

import org.hibernate.Session;

import org.hibernate.SessionFactory;

import org.hibernate.Transaction;

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

import org.springframework.stereotype.Repository;

import com.hexa.entity.Student;

@Repository("studao")

public class DaoImpl implements IDao{

@Autowired

private SessionFactory sfac;

@Override

public List<Student> getStudents() {

Session sess = sfac.openSession();

Query qry = sess.createQuery("from Student s");

List<Student> lst = qry.list();

sess.close();

return lst;

}

@Override

public List<Student> getStudents(String dept) {

Session sess = sfac.openSession();

Query qry = sess.createQuery("from Student s where dept=?");

qry.setString(0, dept);

List<Student> lst = qry.list();

sess.close();

return lst;

}

@Override

public Student getStudent(int studentId) {

Session sess = sfac.openSession();

Student stu = sess.get(Student.class, studentId);

sess.close();

return stu;

}

@Override

public int addStudent(Student stu) throws IDException {

Session sess = sfac.openSession();

Transaction tx = sess.beginTransaction();

try {

sess.save(stu);

tx.commit();

} catch (HibernateException e) {

tx.rollback();

throw new IDException("ID already Exists",e);

} finally {

sess.close();

}

return 1;

}

}

Messages.properties

typeMismatch.int=**{0}** must be integer

typeMismatch.java.lang.Integer=**{0}** must be integer

typeMismatch.double=**{0}** must be integer

typeMismatch.java.lang.Double=**{0}** must be integer

typeMismatch=**{0}** invalid Pattern

application.properties

spring.datasource.driver-class-name=com.mysql.jdbc.Driver

spring.datasource.url=jdbc:mysql://localhost:3306/test

spring.datasource.username=root

spring.datasource.password=root

spring.jpa.show-sql=true

spring.jpa.database-platform=org.hibernate.dialect.MySQLDialect

server.port=8083

server.context-path=/hexaweb

spring.mvc.view.prefix=/WEB-INF/

spring.mvc.view.suffix=.jsp

logging.level.empapp=DEBUG

logging.pattern.console=%level %class.%M-%msg%n

server.error.whitelabel.enabled=false

**create folder WEB-INF in webapp folder**

Header.jsp

<%@taglib uri=*"http://java.sun.com/jsp/jstl/core"* prefix=*"c"*%>

<header>

<span>Employee Management</span>

<hr />

</header>

Footer.jsp

<footer>

<hr/>

&copy;copyrights reserved 2018 &amp; powered by Hexaware Technologies<br/>

<a href=*"*main” img src=*"images/home.jpg"*/></a>

</footer>

HeadSection.jsp

<%@taglib uri=*"http://java.sun.com/jsp/jstl/core"* prefix=*"c"* %>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=UTF-8"*>

<title>EmpApp</title>

<link href=*"hexa.css"* rel=*"stylesheet"*>

</head>

MyErr.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<%@include file=*"HeadSection.jsp"* %>

<body>

<%@include file=*"Header.jsp"* %>

<section>

<h2>Error Page</h2>

<div style="color:*red*">${err}</div>

</section>

<%@include file=*"Footer.jsp"* %>

</body>

</html>

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<%@include file=*"HeadSection.jsp"* %>

<body>

<%@include file=*"Header.jsp"*%>

<section id=*"home"*>

<h2>Home Page</h2>

<h3 align=*"center"*>${msg }</h3>

<div>

<nav>

<table>

<tr>

<td><a href=*"viewall"*>View All Employee</a></td>

<td> <a href=*"viewdepts"*>View By Department</a></td>

</tr>

<tr>

<td> <a href=*"idfrm"*>View By Employee Id</a></td>

<td><a href=*"addfrm"*>Add Employee</a></td>

</tr>

</table>

</nav>

</div>

</section>

<%@include file=*"Footer.jsp"*%>

</body>

</html>

Create package com.hexa.web

Create class EmpController under it

**package** com.hexa.web;

**import** org.springframework.stereotype.Controller;

**import** org.springframework.web.bind.annotation.RequestMapping;

**import** org.springframework.web.bind.annotation.RequestMethod;

@Controller

**public** **class** EmpController {

@RequestMapping(value = {"/","/main"})

**public** String displayHome() {

**return** "Main";

}

//viewall

/viewall

@RequestMapping(value = "/viewall")

**public** String viewAllEmployee(@RequestParam(value="pno",required=**false**) Integer pgno,Model model) {

logger.debug("Inside View Employee");

List<Emp> lst = dao.getEmployees();

**int** end = pgno \* 3;

**int** start = end-3;

**if**(end>=lst.size()) {

end=lst.size();

}

**int** lastpg = (**int**)Math.*ceil*(lst.size()/3.0);

List<Emp> subList = lst.subList(start, end); // end will be exclusive

model.addAttribute("elist",subList);

model.addAttribute("lastpg",lastpg);

model.addAttribute("pgurl","viewall?");

**return** "EmpView";

}}

@RequestMapping(value = "/viewdepts")

**public** String DisplayDeptFrm(Model model){

model.addAttribute("dlist",dao.getDepartments());

**return** "DeptFrm";

}

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html">

<html>

<%@ include file=*"HeadSection.jsp"*%>

<body>

<%@ include file=*"Header.jsp"*%>

<section>

<h2>Employee Details</h2>

<div align=*"center"*>Page : ${param.pno} </div>

<table id=*"tlist"*>

<tr>

<th>Employee Image</th>

<th>Employee Id</th>

<th>Employee Name</th>

<th>Salary</th>

<th>Department</th>

</tr>

<c:forEach items=*"*${elist}*"* var=*"e"*>

<tr>

<th><img src=*"photos/*${e.img}*"* height=*"75"* width=*"75"*/></th>

<th>${e.empId}</th>

<th>${e.empName}</th>

<th>${e.sal}<th>

<th>${e.dept.deptName}</th>

</tr>

</c:forEach>

</table>

<div align=*"center"* id=*"home"* style="margin-top: *10px*;">

<c:if test=*"*${param.pno **gt** 1}*"*>

<a href=*"*${pgurl}*pno=*${param.pno-1}*"*>prev</a>

</c:if>

<c:if test=*"*${param.pno **lt** lastpg}*"*>

<a href=*"*${pgurl}*pno=*${param.pno+1}*"*>next</a>

</c:if>

</div>

</section>

<%@ include file=*"Footer.jsp"*%>

</body>

</html>

EMPidfORM

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<%@ include file=*"HeadSection.jsp"*%>

<body>

<%@ include file=*"Header.jsp"*%>

<section>

<h2>View Employee By ID</h2>

<div align=*"center"*>

<form action=*"viewbyid"*>

Employee ID : <input type=*"text"* name=*"txteid"*> <input

type=*"submit"* name=*"search"*>

</form>

</div>

</section>

<%@ include file=*"Footer.jsp"*%>

</body>

</html>

EMPidvIEW

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<%@ include file=*"HeadSection.jsp"*%>

<body>

<%@ include file=*"Header.jsp"*%>

<section>

<h2>View Employee By ID</h2>

<div align=*"center"*>

<img src=*"photos/*${emp.img}*"* height=*"200"* width=*"200"* />

</div>

<table id=*"tlist"*>

<tr>

<td>Employee Id</td>

<td>${emp.empId}</td>

</tr>

<tr>

<td>Employee Name</td>

<td>${emp.empName}</td>

</tr>

<tr>

<td>Salary</td>

<td>${emp.sal}</td>

</tr>

<tr>

<td>Department</td>

<td>${emp.dept.deptName}</td>

</tr>

</table>

</section>

<%@ include file=*"Footer.jsp"*%>

</body>

</html>

DeptFrm.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<%@ include file=*"HeadSection.jsp"*%>

<body>

<%@ include file=*"Header.jsp"*%>

<section>

<h2>View Employee By Department</h2>

<div align=*"center"*>

<form action=*"viewbydept"*>

Department:

<select name=*"cbodept"*>

<c:forEach items=*"*${dlist}*"* var=*"d"*>

<option value=*"*${d.deptId}*"*>${d.deptName}</option>

</c:forEach>

</select>

<input type=*"submit"* value=*"View"*/>

</form>

</div>

</section>

<%@ include file=*"Footer.jsp"*%>

</body>

</html>

Execute …

Now create a file hexa.css in webapp folder