

Spring & Hibernate Assessment

Library Management System

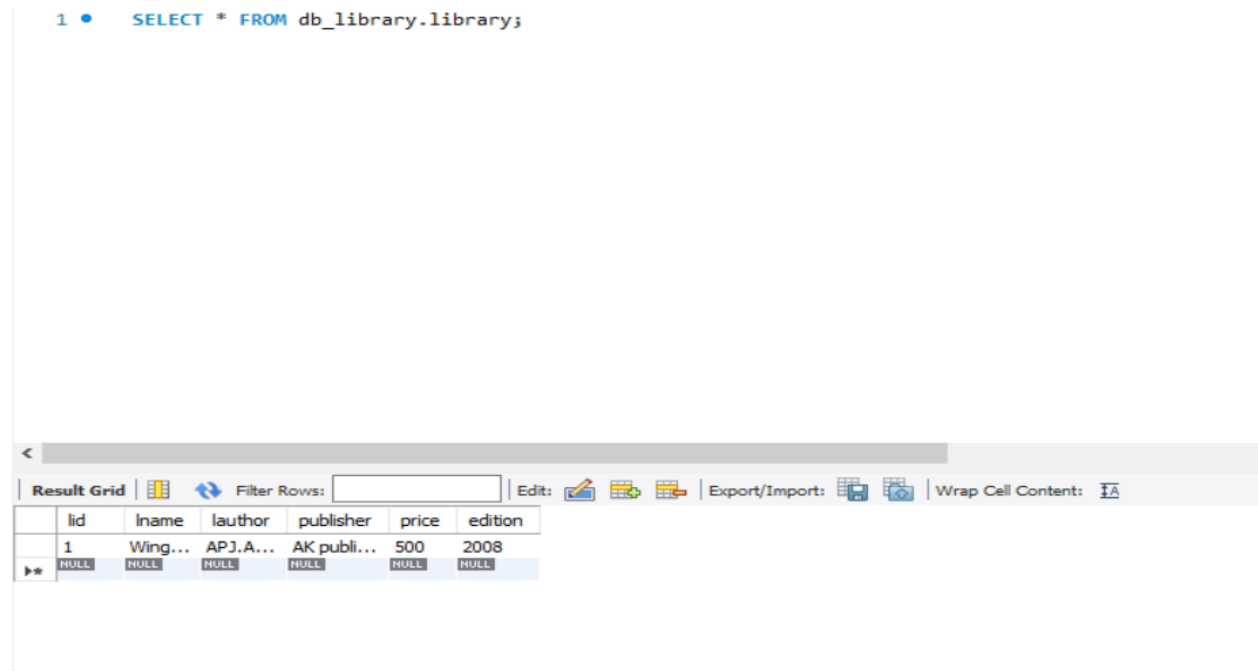
Folder structure:

- LibraryMS
 - src/main/java
 - com.lms.bean
 - Library.java
 - com.lms.controller
 - LibraryController.java
 - com.lms.dao
 - LibraryDAO.java
 - com.lms.util
 - LibraryUtil.java
 - src/main/resources
 - hibernate.cfg.xml
 - src/test/java
 - JRE System Library [J2SE-1.5]
 - Maven Dependencies
 - target/generated-sources/annotations
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 - src
 - target
 - pom.xml

- src
 - main
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Database:

1 • `SELECT * FROM db_library.library;`



	lid	lname	lauthor	publisher	price	edition
	1	Wing...	APJ.A...	AK publi...	500	2008
»	NULL	NULL	NULL	NULL	NULL	NULL

Code:

Com.lms.bean

Library.class:

```
package com.lms.bean;
```

```
import javax.persistence.Column;
```

```
import javax.persistence.Entity;
```

```
import javax.persistence.GeneratedValue;
```

```
import javax.persistence.GenerationType;
```

```
import javax.persistence.Id;
```

```
import javax.persistence.Table;
```

```
@Entity
```

```
@Table
```

```
public class Library {  
  
    @Id  
    @GeneratedValue(strategy = GenerationType.IDENTITY)  
    private int lid;  
  
    @Column  
    private String lname;  
    private String lauthor;  
    private String publisher;  
    private float price;  
    private int edition;
```

```
    public Library() {  
        super();  
  
    }
```

```
    public Library(int lid, String lname, String lauthor, String publisher, float price, int edition) {  
        super();  
        this.lid = lid;  
        this.lname = lname;  
        this.lauthor = lauthor;  
        this.publisher = publisher;  
        this.price = price;  
        this.edition = edition;
```

```
}
```

```
public int getLid() {  
    return lid;  
}
```

```
public void setLid(int lid) {  
    this.lid = lid;  
}
```

```
public String getLname() {  
    return lname;  
}
```

```
public void setLname(String lname) {  
    this.lname = lname;  
}
```

```
public String getLauthor() {  
    return lauthor;  
}
```

```
public void setLauthor(String lauthor) {  
    this.lauthor = lauthor;  
}
```

```
public String getPublisher() {  
    return publisher;  
}
```

```
public void setPublisher(String publisher) {  
    this.publisher = publisher;  
}
```

```
public float getPrice() {  
    return price;  
}
```

```
public void setPrice(float price) {  
    this.price = price;  
}
```

```
public int getEdition() {  
    return edition;  
}
```

```
public void setEdition(int edition) {  
    this.edition = edition;  
}
```

@Override

```
public String toString() {  
    return "Library [lid=" + lid + ", lname=" + lname + ", lauthor=" + lauthor + ", publisher=" +  
    publisher  
    + ", price=" + price + ", edition=" + edition + "];"  
}
```

```
}
```

Com.lms.util

Libraryutil.class

package com.lms.util;

import org.hibernate.Session;

import org.hibernate.SessionFactory;

import org.hibernate.cfg.Configuration;

public class LibraryUtil {

public static Session openSession() {

Configuration cfg=new Configuration().configure("hibernate.cfg.xml");

SessionFactory factory=cfg.buildSessionFactory();

Session session =factory.openSession();

return session;

}

}

Com.lms.controller

LibraryController.class

package com.lms.controller;

import java.util.List;

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

import org.springframework.stereotype.Controller;

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

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

import org.springframework.web.servlet.ModelAndView;

import com.lms.bean.Library;

import com.lms.dao.LibraryDAO;

@Controller

public class LibraryController {

int n=0;

@Autowired

LibraryDAO dao;

@RequestMapping("NavLink")

public ModelAndView loadnav() {

ModelAndView mv=new ModelAndView("NavLink");


```
return mv;  
}
```

```
@RequestMapping("Home")  
public ModelAndView loadHome() {  
    ModelAndView mv=new ModelAndView("Home");  
    return mv;  
}
```

```
@RequestMapping("Add")  
public ModelAndView loadAdd() {  
    ModelAndView mv=new ModelAndView("Add");  
    return mv;  
}
```

```
@RequestMapping("Insertion")  
public ModelAndView doInsert(@ModelAttribute("bean") Library bean) {  
  
    dao.insertLib(bean);  
  
    System.out.println(n);  
  
    ModelAndView mv=new ModelAndView("addsuccess");  
    mv.addObject("bean",bean);  
    return mv;  
}
```

```
@RequestMapping("Delete")

public ModelAndView loadDelete(@ModelAttribute("bean") Library bean) {

    List<Integer>list=dao.listId();

    ModelAndView mv=new ModelAndView("Delete");

    mv.addObject("listId",list);


    return mv;

}
```

```
@RequestMapping("Deletion")

public ModelAndView doDelete(@ModelAttribute("bean")Library bean) {


    dao.deleteLib(bean);


    ModelAndView mv=new ModelAndView("deletesuccess");

    mv.addObject("bean",bean);

    return mv;

}
```

```
@RequestMapping("Update")

public ModelAndView loadupdate() {

    List<Integer>list=dao.listId();

    ModelAndView mv=new ModelAndView("Update");

    mv.addObject("Idlist",list);

    return mv;

}
```

```
}  
  
@RequestMapping("Fetch")  
public ModelAndView doFetch(@ModelAttribute("bean") Library bean) {  
    ModelAndView mv=new ModelAndView("Update");
```

```
  
    List<Integer>list=dao.listId();  
    bean = dao.getLib(bean);  
    mv.addObject("bean",bean);  
    mv.addObject("Idlist",list);  
    return mv;  
}
```

```
  
@RequestMapping("Updation")  
public ModelAndView doUpdate(@ModelAttribute("bean")Library bean) {  
    ModelAndView mv=new ModelAndView("updatesuccess");  
    bean=dao.updateLib(bean);  
    mv.addObject("bean",bean);  
    return mv;  
  
}
```

```
  
@RequestMapping("Search")  
public ModelAndView loadSearch(@ModelAttribute("bean") Library bean) {  
    ModelAndView mv=new ModelAndView("Search");  
  
    List<Integer>list=dao.listId();
```

```
bean = dao.getLib(bean);  
mv.addObject("bean",bean);  
mv.addObject("Idlist",list);  
return mv;  
}
```

```
@RequestMapping("Searches")  
public ModelAndView doSearch(@ModelAttribute("bean")Library bean) {  
ModelAndView mv=new ModelAndView("searchsuccess");
```

```
List<Integer>list=dao.listId();  
bean = dao.getLib(bean);  
mv.addObject("bean",bean);  
mv.addObject("Idlist",list);  
return mv;  
}
```

```
@RequestMapping("FindAll")  
public ModelAndView loadsearchall(@ModelAttribute("bean")Library bean) {  
ModelAndView mv=new ModelAndView("FindAll");  
List<Library> lib=dao.findallLib();
```

```
mv.addObject("Idlist",lib);  
return mv;  
}
```

```
@RequestMapping("EditForm")
```

```
public ModelAndView doEdit(@ModelAttribute("bean")Library bean) {
```

```
Library lib1=dao.updateLib(bean);
```

```
ModelAndView mv=new ModelAndView("FindAll");
```

```
mv.addObject("bean",lib1);
```

```
mv.addObject("Idlist",dao.findallLib());
```

```
return mv;
```

```
}
```

```
@RequestMapping("Remove")
```

```
public ModelAndView doRemove(@ModelAttribute("bean")Library bean) {
```

```
dao.deleteLib(bean);
```

```
ModelAndView mv=new ModelAndView("FindAll");
```

```
mv.addObject("Idlist",dao.findallLib());
```

```
return mv;
```

```
}
```

```
@RequestMapping("Save")
public ModelAndView doSave(@ModelAttribute("bean") Library bean) {

    dao.insertLib(bean);

    System.out.println(n);

    ModelAndView mv=new ModelAndView("FindAll");
    mv.addObject("Idlist",dao.findallLib());
    return mv;

}
}
```

Com.lms.dao

LibraryDAO.class

package com.lms.dao;

import java.util.List;

import org.hibernate.Query;

import org.hibernate.Session;

import org.hibernate.Transaction;

import com.lms.bean.Library;

import com.lms.util.LibraryUtil;

public class LibraryDAO {

public int insertLib(Library lib) {

try {

```
Session session=LibraryUtil.openSession();  
Transaction t=session.beginTransaction();  
session.save(lib);  
t.commit();  
session.close();
```

```
} catch (Exception e) {  
    e.printStackTrace();  
}  
return 1;  
}
```

```
public List<Integer> listId(){  
    Session session=LibraryUtil.openSession();  
    Transaction t=session.beginTransaction();  
  
    Query q=session.createQuery("select lid from Library");  
    List<Integer> list=q.list();  
  
    session.close();  
    return list;  
}
```

```
public void deleteLib(Library bean) {  
    Session session=LibraryUtil.openSession();  
    Transaction t=session.beginTransaction();
```



```
        session.delete(bean);  
t.commit();  
session.close();  
  
}
```

```
public Library getLib(Library bean) {  
    System.out.println("bean "+bean);  
    Session session=LibraryUtil.openSession();  
    Transaction t=session.beginTransaction();  
    Library lib= session.get(Library.class, bean.getId());  
    System.out.println(lib +" after");  
    session.close();  
    return lib;  
  
}
```

```
public Library updateLib(Library bean) {  
    Session session=LibraryUtil.openSession();  
    Transaction t=session.beginTransaction();  
        session.update(bean);  
        t.commit();  
        session.close();  
    return bean;  
}
```

```
public List<Library> findallLib() {
```

```
Session session=LibraryUtil.openSession();
Transaction t=session.beginTransaction();
List<Library> lib=session.createQuery("from Library").list();
System.out.println(lib);
t.commit();
session.close();
return lib;
}
}
```

JSP file:

Index.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Index</title>
<frameset rows="10%,90%" frameborder="no">
<frame name="banner" src="NavLink"/>
<frame name="frame1" src="Home"/>
</frameset>
</head>
<body>
```

```
</body>
</html>
```

NavLink.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Header</title>
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/css/bootstrap.m
in.css" rel="stylesheet">
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bun
dle.min.js"></script>
<style >
.nav-link{
color: white;
}
h3{
font-style: italic;
padding-left: 50px;
border-radius: 3px;
margin-left: 50px;
color: white;
}
#logo{
```

```
width: 80px;
height: 50px;
margin-left: 150px;
border-radius: 20%;
}
</style>
</head>
<body >
<div class="container-fluid ">
<nav class="navbar" style="background-color:maroon;">
<ul class="nav nav-pills" >
<li class="nav-item">
<a class="nav-link active" aria-current="page" href="Home"
target="frame1">Home</a>
</li>
<li class="nav-item">
<a class="nav-link" href="Add" target="frame1">Insert</a>
</li>
<li class="nav-item">
<a class="nav-link" href="Search" target="frame1">Search</a>
</li>
<li class="nav-item">
<a class="nav-link" href="Update" target="frame1">Update</a>
</li>
<li class="nav-item">
<a class="nav-link" href="Delete" target="frame1">Delete</a>
</li>
<li class="nav-item">
```

```
<a class="nav-link" href="FindAll" target="frame1">FindAll</a>
</li>
<li class="nav-item">
<h3 >Library Management System</h3>
</li>
</ul>
</nav>
</div>
</body>
</html>
```

Home.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Home</title>
<style >
#div1{
position: absolute;
```

```

top: 50%;
left: 46%;
transform: translate(-50%, -50%)
}
.mySlides{
border-radius: 15px;
}
</style>
</head>
<body>
<h2 style="font-style: italic;color: black;margin-left: 37rem;padding-top: 20px ;">Our Institutions </h2>
<div class="w3-content w3-section" style="max-width:500px" id="div1">





</div>
<script>

```

```

var myIndex = 0;
carousel();
function carousel() {
var i;
var x = document.getElementsByClassName("mySlides");
for (i = 0; i < x.length; i++) {
x[i].style.display = "none";
}
myIndex++;
if (myIndex > x.length) {myIndex = 1}
x[myIndex-1].style.display = "block";
setTimeout(carousel, 2000); // Change image every 2 seconds
}
</script>
</body>
</html>

```

Add.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Add Book</title>

```

```
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/css/bootstrap.min.css" rel="stylesheet">

<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js"></script>

<style >

#card{
width: 40%;
position: absolute;
top: 50%;
left: 50%;
transform: translate(-50%, -50%)
}

::placeholder {
font-style:normal;
}

#but{
line-height: 25px;
width: 18px;
font-size: 12pt;
font-family: tahoma;
margin-top: 12px;
margin-right: 50px;
position:absolute;
top:0;
right:0;
}

</style>
```



```
<script type="text/javascript">
function Validation() {

var lid=document.getElementById("lid").value;
var lname=document.getElementById("lname").value;
var lauthor=document.getElementById("lauthor").value;
var publisher=document.getElementById("publisher").value;
var price=document.getElementById("price").value;
var edition=document.getElementById("edition").value;


if(lid==""){
alert("Book id cannot be empty");
}
else if(lname==""){
alert("Book name cannot be empty");
}
else if(lauthor==""){
alert("Author cannot be empty");
}
else if(publisher==""){
alert("Publisher cannot be empty")
}
else if(price==""){
alert("Price cannot be empty")
}
else if(edition==""){
alert("Edition cannot be empty")
}
```

```
}
```

```
}
```

```
</script>
```

```
</head>
```

```
<body >
```

```
<div class=" container-fluid card bg-light mb-3" id="card" style="max-width: 40rem;">
```

```
<div class="card-header"><h4>Add Book Details </h4></div>
```

```
<div class="card-body">
```

```
<form action="Insertion" method="post" class="container-fluid" modelAttribute="bean">
```

```
<div class="container-fluid form-group">
```

```
<label for="lname">Book Name:</label><br>
```

```
<input type="text" id="lname" class="form-control" name="lname" style="width: 18rem" placeholder="Enter Book name" required="required"><br>
```

```
<label for="lauthor">Book Author:</label><br>
```

```
<input type="text" id="lauthor" class="form-control" name="lauthor" style="width: 18rem" placeholder="Enter Book author" required="required"><br>
```

```
<label for="publisher">Publisher:</label><br>
```

```
<input type="text" id="publisher" class="form-control" name="publisher" style="width: 18rem" placeholder="Enter publisher" required="required"><br>
```

```
<label for="price">Price:</label><br>
```

```
<input type="text" id="price" class="form-control" name="price" style="width: 18rem" placeholder="Enter price" required="required"><br>
```

```
<label for="edition">Edition:</label><br>
```

```

<input type="text" id="edition" class="form-control" name="edition"
style="width: 18rem" placeholder="Enter edition"
required="required"><br>

<input type="submit" id="but" class="btn btn-primary pull-right"
value="Add" name="button" style="width: 5rem"
onmousedown="Validation()">

</div>

</form>

</div>

</div>

</body>

</html>

```

Addsuccess.jsp

```

<%@page import="com.lms.bean.Library"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<%@taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<%@page isELIgnored="false" %>
<!DOCTYPE html>
<html>
<style >
#div1{
margin-bottom: 50%;
position: absolute;
left: 35%;
}
table {
border-collapse: collapse;

```

```

margin-left: -90px;
}
th, td {
text-align: left;
padding: 8px;
}
tr:nth-child(even) {background-color: #f2f2f2;}
</style>
<head>
<meta charset="ISO-8859-1">
<title>Add Success</title>
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/css/bootstrap.m
in.css" rel="stylesheet">
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bun
dle.min.js"></script>
</head>
<body>
<%= "<br><div id=\"div1\" class=\"card card-body w-70 \"><h4>Record
inserted Successfully</h4></div>" %>
<br><br><br><br><br><br>
<table id=div1 class="card card-body shadow p-3 mb-5 bg-white rounded"
align="center" border=1 box-shadow: 10px 10px 5px >
<tr>
<th>Book Id</th>
<th>Book Name</th>
<th>Book Author</th>
<th>Publisher</th>
<th>Price</th>

```

```
<th>Edition</th>
</tr>
<tr>
<td>${bean.lid}</td>
<td>${bean.lname}</td>
<td>${bean.lauthor}</td>
<td>${bean.publisher}</td>
<td>${bean.price}</td>
<td>${bean.edition}</td>
</tr>
</table>

</body>
</html>
```

Delete.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<%@taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<%@ page isELIgnored="false" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Delete Student</title>
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/css/bootstrap.m
in.css" rel="stylesheet">
```

```
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js"></script>

<style >
#card{
width: 40%;
position: absolute;
top: 50%;
left: 50%;
transform: translate(-50%, -50%)
}
::placeholder {
font-style:normal;
}
#but{
line-height: 25px;
width: 18px;
font-size: 12pt;
font-family: tahoma;
margin-top: 12px;
margin-right: 50px;
position:absolute;
top:0;
right:0;
}
#lid{
width: 105px;
}
</style>
```

```

<script type="text/javascript">
function Validation() {

var sid=document.getElementById("lid").value;


if(lid==""){
alert("Book id cannot be empty");
}

}
</script>
</head>
<body>
<div class=" container-fluid card bg-light mb-3" id="card" style="max-width: 40rem;">
<div class="card-header"><h4>Delete Book Details </h4></div>
<div class="card-body">
<form action="Deletion" method="post" class="container-fluid"
modelAttribute="bean">
<div class="container-fluid form-group">
<label for="lid" >Book Id:</label><br>
<select name="lid" id="lid">
<c:forEach items="${listId}" var="id">
<option>${id}</option>
</c:forEach>

```

```
<input type="submit" id="but" class="btn btn-danger pull-right"
value="Delete" name="button" style="width: 5rem"
onmousedown="Validation()">
```

```
</select>
```

```
</div>
```

```
</form>
```

```
</div>
```

```
</div>
```

```
</body>
```

```
</html>
```

Deletesuccess.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
```

```
<%@page isELIgnored="false" %>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<meta charset="ISO-8859-1">
```

```
<title>Delete Success</title>
```

```
<link
```

```
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/css/bootstrap.m
in.css" rel="stylesheet">
```

```
<script
```

```
src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bun
dle.min.js"></script>
```

```
<style >
```

```
#div1{
```

```
margin-bottom: 50%;
```

```
position: absolute;
```

```
left: 38%;
```



```

}

</style>

</head>

<body>

<%= "<br><div id=\"div1\" class=\"card card-body w-70 shadow-lg p-3 mb-5
bg-white rounded\"><h4>Record deleted Successfully</h4></div>" %>

<br><br><br><br>

</body></html>

```

Update.jsp

```

<%@page import="org.hibernate.internal.build.AllowSysOut"%>
<%@page import="com.lms.bean.Library"%>
<%@page import="java.util.List"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<%@taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<%@ page isELIgnored="false" %>
<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>Update Employee</title>

<link
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/css/bootstrap.m
in.css" rel="stylesheet">

<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bun
dle.min.js"></script>

<style >

#card{

width: 40%;

```

```
position: absolute;
top: 50%;
left: 50%;
transform: translate(-50%, -50%)
}
::placeholder {
font-style: normal;
}
</style>
<script type="text/javascript">
function Validation() {

var lid=document.getElementById("lid").value;
var lname=document.getElementById("lname").value;
var lauthor=document.getElementById("lauthor").value;
var publisher=document.getElementById("publisher").value;
var price=document.getElementById("price").value;
var edition=document.getElementById("edition").value;

if(lid==""){
alert("Book id cannot be empty");
}
else if(lname==""){
alert("Book name cannot be empty");
}
else if(lauthor==""){
alert("Author cannot be empty");
```

```

}
else if(publisher==""){
alert("Publisher cannot be empty")
}
else if(price==""){
alert("Price cannot be empty")
}
else if(edition==""){
alert("Edition cannot be empty")
}

}

</script>
</head>
<body class="container-fluid">
<div class=" container-fluid card bg-light mb-3" id="card" style="max-
width: 40rem;">
<div class="card-header"><h4>Update Book Details</h4></div>
<div class="card-body">
<form action="Fetch" method="post" class="container-fluid"
modelAttribute="bean">
<div class="container-fluid form-group">
<label for="lid"><b>Book Id:</b></label>
<select name="lid" class="input-field" aria-label="Default select
example">
<%
List<Integer>idlist=(List<Integer>)request.getAttribute("Idlist");
for(Integer i:idlist){
out.println("<option value='"+i+"'>"+i+"</option>");

```

```
}  
%>  
  
</select>  
  
<input class="btn btn-secondary pull-right" type="submit" value="Fetch"  
name="button" />  
  
</form>  
  
<br><br>  
  
<form action="Updation" method="post" class="container-fluid"  
modelAttribute="bean">  
  
<label for="lid"><b>Book Id:</b></label><br>  
  
<input type="text" id="lid" class="form-control" name="lid"  
style="width: 18rem" readonly="readonly" placeholder="Enter Book Id"  
value="${bean.lid}"><br>  
  
<label for="lname"><b>Book Name:</b></label><br>  
  
<input type="text" id="lname" class="form-control" name="lname"  
style="width: 18rem" placeholder="Enter Book name"  
value="${bean.lname}"><br>  
  
  
<label for="lauthor"><b>Book Author:</b></label><br>  
  
<input type="text" id="lauthor" class="form-control" name="lauthor"  
style="width: 18rem" placeholder="Enter Book author"  
value="${bean.lauthor}"><br>  
  
<label for="publisher">Publisher:</label><br>  
  
<input type="text" id="publisher" class="form-control" name="publisher"  
style="width: 18rem" placeholder="Enter publisher" required="required"  
value="${bean.publisher}"><br>  
  
<label for="price">Price:</label><br>  
  
<input type="text" id="price" class="form-control" name="price"  
style="width: 18rem" placeholder="Enter price" required="required"  
value="${bean.price}"><br>  
  
<label for="edition">Edition:</label><br>
```

```
<input type="text" id="edition" class="form-control" name="edition"
style="width: 18rem" placeholder="Enter edition" required="required"
value="${bean.edition}"><br>
<input type="submit" id="but" class="btn btn-warning" value="Update"
name="button" style="width: 5rem" onmousedown="Validation()">
</form>
</div>
</div>
</div>
</body>
</html>
```

Updatesuccess.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Update Success</title>
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/css/bootstrap.m
in.css" rel="stylesheet">
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bun
dle.min.js"></script>
```

```

<style >
#div1{
margin-bottom: 50%;
position: absolute;
left: 38%;
}
</style>
</head>
<body>
<%= "<br><div id=\"div1\" class=\"card card-body w-70 shadow-lg p-3 mb-5
bg-white rounded\"><h4>Record updated Successfully</h4></div>" %>
<br><br><br><br>
</body>
</html>

```

Search.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
    <%@taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<%@ page isELIgnored="false" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Search Student</title>

```

```
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/css/bootstrap.m
in.css" rel="stylesheet">

<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bun
dle.min.js"></script>

<style >

#card{
width: 40%;
position: absolute;
top: 50%;
left: 50%;
transform: translate(-50%, -50%)
}

::placeholder {
font-style:normal;
}

#but{
line-height: 25px;
width: 18px;
font-size: 12pt;
font-family: tahoma;
margin-top: 12px;
margin-right: 50px;
position:absolute;
top:0;
right:0;
}

#lid{
```

```

width: 105px;
}
</style>
<script type="text/javascript">
function Validation() {

var sid=document.getElementById("sid").value;


if(sid==""){
alert("Student id cannot be empty");
}

}
</script>
</head>
<body>
<div class="container-fluid card bg-light mb-3" id="card" style="max-width: 40rem;">
<div class="card-header"><h4>Search Book Details </h4></div>
<div class="card-body">
<form action="Searches" class="container-fluid" modelAttribute="bean">
<div class="container-fluid form-group">
<div class="form-group">
<label for="lid"><b>Book Id:</b></label><br>
<select name="lid" id="lid" >

```



```

<c:forEach items="${Idlist}" var="id">
<option>${id}</option>
</c:forEach>
</select>
</div>

<input type="submit" id="but" class="btn btn-success pull-right"
value="Search" name="button" style="width: 5rem"
onmousedown="Validation()">
</div>
</form>
</div>
</div>
</div>
</body>
</html>

```

Searchsuccess.jsp

```

<%@page import="com.lms.bean.Library"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<%@page isELIgnored="false" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Search Success</title>
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/css/bootstrap.m
in.css" rel="stylesheet">

```

```

<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js"></script>

<style >
#div1{
margin-bottom: 50%;
position: absolute;
left: 38%;}
table {
border-collapse: collapse;
margin-left: -100px;
}
th, td {
text-align: left;
padding: 8px;
}
tr:nth-child(even) {background-color: #f2f2f2;}

}
</style>
</head>
<body>
<%= "<br><div id=\"div1\" class=\"card card-body w-70 shadow p-3 mb-5 bg-white rounded\"><h4>Record founded Successfully</h4></div>" %>
<br><br><br><br><br><br>
<table id=div1 class="card card-body shadow p-3 mb-5 bg-white rounded"
align="center" border=1 box-shadow: 10px 10px 5px >
<tr>
<th>Book Id</th>

```

```
<th>Book Name</th>
<th>Book Author</th>
<th>Publisher</th>
<th>Price</th>
<th>Edition</th>
</tr>
<c:forEach items="${bean}" var="bean">
<tr>
<td>${bean.lid}</td>
<td>${bean.lname}</td>
<td>${bean.lauthor}</td>
<td>${bean.publisher}</td>
<td>${bean.price}</td>
<td>${bean.edition}</td>
</tr>
</c:forEach>
</table>
</body>
</html>
```

FindAll.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<%@ page import="com.lms.bean.Library" %>
<%@ page isELIgnored="false" %>
<%@taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Find All</title>
<style >
body{
margin-left: -100px;
}
#div1{
margin-bottom: 50%;
position: absolute;
left: 18%;
top: 10%;
}
#card{
width: 50%;
position: absolute;
top: 50%;
left:10%;
transform: translate(-50%, -50%)
}
```

```

table {
width: 80%;
border-collapse: collapse;
margin-left: -100px;
padding-left: 10px;
}
th, td {
text-align: left;
padding: 8px 2
}
tr:nth-child(even) {background-color: #f2f2f2;}
</style>

<link
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/css/bootstrap.m
in.css" rel="stylesheet">

<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bun
dle.min.js"></script>

</head>

<body>

<table id=div1 class="card card-body shadow-lg p-3 mb-5 bg-white
rounded"; border=3; box-shadow: 10px 10px 5px >

<form action="Save" method="post" modelAttribute="bean">

<tr>

<th><h3>Insert here</h3></th>

</tr>

<tr>

<td><input type="text" class="form-control" value="Auto Generative Id"
readonly="readonly"></td>

```

```

<td><input type="text" class="form-control" name="lname"
placeholder="Enter book name" ></td>

<td><input type="text" class="form-control" name="lauthor"
placeholder="Enter author name"></td>

<td><input type="text" class="form-control" name="publisher"
placeholder="Enter publisher" ></td>

<td><input type="text" class="form-control" name="price"
placeholder="Enter price" ></td>

<td><input type="text" class="form-control" name="edition"
placeholder="Enter edition" ></td>

<td>

<input type="submit" id="but" class="btn btn-success pull-right"
value="Save" name="button" style="width: 5rem"
onmousedown="Validation()">

</td>

</tr>

</form>

<tr>

<th>Book Id</th>

<th>Book Name</th>

<th>Book Author</th>

<th>Publisher</th>

<th>Price</th>

<th>Edition</th>

<th>Update</th>

<th>Delete</th>

</tr>

<c:forEach items="${Idlist}" var="Idlist" >

<form action="EditForm" modelAttribute="bean">

```

```

<tr>
<td><input type="text" class="form-control" name="lid"
value="${Idlist.lid}" readonly="readonly"></td>

<td><input type="text" class="form-control" name="lname"
value="${Idlist.lname}" ></td>

<td><input type="text" class="form-control" name="lauthor"
value="${Idlist.lauthor}"></td>

<td><input type="text" class="form-control" name="publisher"
value="${Idlist.publisher}"></td>

<td><input type="text" class="form-control" name="price"
value="${Idlist.price}"></td>

<td><input type="text" class="form-control" name="edition"
value="${Idlist.edition}"></td>
<td>
<!-- <a href="EmployeeServletFile?button=Update" ><button id="but"
class="btn btn-warning btn-sm pull-right" value="Update" name="button"
style="width: 5rem">Update</button></a>

<a href="EmployeeServletFile?button=Delete" ><button id="but"
class="btn btn-danger btn-sm pull-right" value="Delete" name="button"
style="width: 5rem">Delete</button></a>-->

<input type="submit" id="but" class="btn btn-warning btn-sm pull-right"
value="Edit" name="button" style="width: 5rem"
onmousedown="Validation()">

</td>
</form>
<td>
<a href="Remove?lid=${Idlist.lid}"><input type="submit" value="Remove"
class="btn btn-danger btn-sm pull-right"/></a>

<!-- <input type="submit" id="but" class="btn btn-danger btn-sm pull-
right" value="Delete" name="button" style="width: 5rem"
onmousedown="Validation()">-->

</td>

```

```
</tr>
</c:forEach>
</table>
</body>
</html>
```

Hibernate.cfg.file:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE hibernate-configuration PUBLIC
"-//Hibernate/Hibernate Configuration DTD 3.0//EN"
"http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">
<hibernate-configuration>
<session-factory>
<property
name="hibernate.connection.driver_class">com.mysql.jdbc.Driver</property>
<property name="hibernate.connection.password">Admin@123</property>
<property
name="hibernate.connection.url">jdbc:mysql://localhost:3306/db_library?
createDatabaseIfNotExist=true</property>
<property name="hibernate.connection.username">root</property>
<property
name="hibernate.dialect">org.hibernate.dialect.MySQL8Dialect</property>
<property name="show_sql">true</property>
<property name="hbm2ddl.auto">update</property>
<mapping class="com.lms.bean.Library" ></mapping>
</session-factory>
</hibernate-configuration>
```


Spring-servlet.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:context="http://www.springframework.org/schema/context"
xmlns:mvc="http://www.springframework.org/schema/mvc"
xsi:schemaLocation="
http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans/spring-beans.xsd
http://www.springframework.org/schema/context
http://www.springframework.org/schema/context/spring-context.xsd
http://www.springframework.org/schema/mvc
http://www.springframework.org/schema/mvc/spring-mvc.xsd">
<!--Provide support for conversion, formatting and validation -->
<context:component-scan base-package="com.lms.controller" />
<bean
class="org.springframework.web.servlet.view.InternalResourceViewResolver">
<property name="prefix" value="/WEB-INF/views/" />
<property name="suffix" value=".jsp" />
</bean>
<bean id="dao" class="com.lms.dao.LibraryDAO"></bean>
```

```
</beans>
```

Web.xml:

```
<!DOCTYPE web-app PUBLIC
"-//Sun Microsystems, Inc.//DTD Web Application 2.3//EN"
"http://java.sun.com/dtd/web-app\_2\_3.dtd" >
<web-app>
<display-name>Archetype Created Web Application</display-name>
<servlet>
<servlet-name>spring</servlet-name>
<servlet-
class>org.springframework.web.servlet.DispatcherServlet</servlet-class>
<load-on-startup>1</load-on-startup>
</servlet>
<servlet-mapping>
<servlet-name>spring</servlet-name>
<url-pattern>/</url-pattern>
</servlet-mapping>
</web-app>
```

Pom.xml

```
<project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4\_0\_0.xsd">
<modelVersion>4.0.0</modelVersion>
<groupId>com.spring.day4</groupId>
<artifactId>LibraryMS</artifactId>
<packaging>war</packaging>
<version>0.0.1-SNAPSHOT</version>
<name>LibraryMS Maven Webapp</name>
<url>http://maven.apache.org</url>
<dependencies>
<dependency>
<groupId>junit</groupId>
<artifactId>junit</artifactId>
<version>3.8.1</version>
<scope>test</scope>
</dependency>
<dependency>
```

```
<groupId>org.springframework</groupId>
<artifactId>spring-orm</artifactId>
<version>4.1.6.RELEASE</version>
</dependency>
<dependency>
<groupId>org.springframework</groupId>
<artifactId>spring-beans</artifactId>
<version>5.2.1.RELEASE</version>
</dependency>
<!-- https://mvnrepository.com/artifact/org.hibernate/hibernate-core -->
<dependency>
<groupId>org.hibernate</groupId>
<artifactId>hibernate-core</artifactId>
<version>5.5.4.Final</version>
</dependency>
<!-- https://mvnrepository.com/artifact/mysql/mysql-connector-java -->
<dependency>
<groupId>mysql</groupId>
<artifactId>mysql-connector-java</artifactId>
<version>8.0.33</version>
</dependency>
<dependency>
<groupId>org.springframework</groupId>
<artifactId>spring-core</artifactId>
<version>5.2.1.RELEASE</version>
</dependency>
<dependency>
```

```
<groupId>org.springframework</groupId>
<artifactId>spring-web</artifactId>
<version>5.2.1.RELEASE</version>
</dependency>
<dependency>
<groupId>org.springframework</groupId>
<artifactId>spring-webmvc</artifactId>
<version>5.2.1.RELEASE</version>
</dependency>
<dependency>
<groupId>org.springframework</groupId>
<artifactId>spring-context</artifactId>
<version>5.2.1.RELEASE</version>
</dependency>
<!-- https://mvnrepository.com/artifact/javax.servlet/jstl -->
<dependency>
<groupId>javax.servlet</groupId>
<artifactId>jstl</artifactId>
<version>1.2</version>
</dependency>
</dependencies>
<build>
<finalName>LibraryMS</finalName>
</build>
</project>
```

Screenshots:

Home page:

Carousell is used

Our Institutions



Our Institutions



[Home](#)[Insert](#)[Search](#)[Update](#)[Delete](#)[FindALL](#)

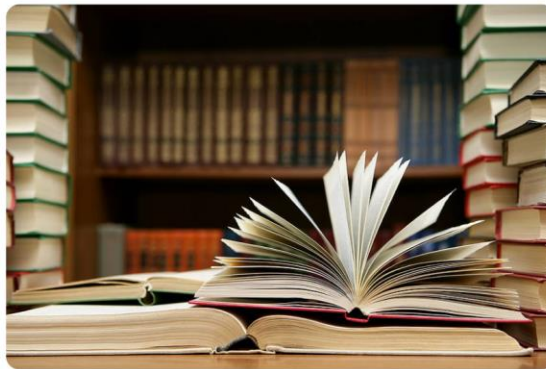
Library Management System

Our Institutions

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Library Management System

Our Institutions



Our Institutions



Insert:

[Home](#) [Insert](#) [Search](#) [Update](#) [Delete](#) [FindALL](#)

Library Management System

Add Book DetailsAdd

Book Name:

Wings of Fire

Book Author:

APJ.AbdulKalam

Publisher:

AK publishers

Price:





500

Edition:

2008

Record inserted Successfully

Book Id	Book Name	Book Author	Publisher	Price	Edition
9	Wings of Fire	APJ.AbdulKalam	AK publishers	500.0	2008

Result Grid |  Filter Rows: | Edit:    | Export/Import

	lid	lname	lauthor	publisher	price	edition
	1	Wing...	APJ.A...	AK publi...	500	2008
	9	Wing...	APJ.A...	AK publi...	500	2008
▶*	NULL	NULL	NULL	NULL	NULL	NULL

Search page:

[Home](#)[Insert](#)[Search](#)[Update](#)[Delete](#)[FindALL](#)

Library Management System

Search Book Details

[Search](#)

Book Id:

[Home](#)[Insert](#)[Search](#)[Update](#)[Delete](#)[FindALL](#)

Library Management System

Record founded Successfully

Book Id	Book Name	Book Author	Publisher	Price	Edition
1	Wings of Fire	APJ.AbdulKalam	AK publishers	500.0	2008

Update:

Result Grid		Filter Rows:		Edit:		Export as	
	lid	lname	lauthor	publisher	price	edition	
	1	Wing...	APJ.A...	AK publi...	500	2008	
	9	Wing...	APJ.A...	AK publi...	500	2008	
▶*	NULL	NULL	NULL	NULL	NULL	NULL	

Home

Insert

Search

Update

Delete

FindALL

Library Management System

Book Id: 1

Fetch

Book Id:

Enter Book Id

Book Name:

Enter Book name

Book Author:

Enter Book author

Publisher:

Enter publisher

Price:

Enter price

Edition:

Home

Insert

Search

Update

Delete

FindALL

Library Management System

Book Id:

9

Book Name:

Wings of Fire

Book Author:

APJ.AbdulKalam

Publisher:

Knowledge publishers

Price:

750

Edition:

2015

Home

Insert

Search

Update

Delete

FindALL

Library Management System

Record updated Successfully

Data has been updated.

Result Grid						
	lid	lname	lauthor	publisher	price	edition
	1	Wings of Fire	APJ.AbdulKa...	AK publishers	500	2008
	9	Wings of Fire	APJ.AbdulKa...	Knowledge publishers	750	2015
✖	NULL	NULL	NULL	NULL	NULL	NULL

Find All:

We can add, edit and delete data in find all page itself.

Home
Insert
Search
Update
Delete
FindALL
Library Management System

Insert here

Auto Generative Id	Enter book name	Enter author name	Enter publisher	Enter price	Enter edition	Save	
Book Id	Book Name	Book Author	Publisher	Price	Edition	Update	Delete
1	Wings of Fire	APJ.AbdulKalam	AK publishers	500.0	2008	Edit	Remove
9	Wings of Fire	APJ.AbdulKalam	Knowledge publist	750.0	2015	Edit	Remove

Now we can adding of data happening here

Home
Insert
Search
Update
Delete
FindALL

Library Management System

Insert here

Auto Generative Id	Ikigai	Edwin	Foreign publishers	450	2019	Save
--------------------	--------	-------	--------------------	-----	------	------

Book Id	Book Name	Book Author	Publisher	Price	Edition	Update	Delete
1	Wings of Fire	APJ.AbdulKalam	AK publishers	500.0	2008	Edit	Remove
9	Wings of Fire	APJ.AbdulKalam	Knowledge publish	750.0	2015	Edit	Remove

Data is added

Home
Insert
Search
Update
Delete
FindALL

Library Management System

Insert here

Auto Generative Id	Enter book name	Enter author name	Enter publisher	Enter price	Enter edition	Save
--------------------	-----------------	-------------------	-----------------	-------------	---------------	------

Book Id	Book Name	Book Author	Publisher	Price	Edition	Update	Delete
1	Wings of Fire	APJ.AbdulKalam	AK publishers	500.0	2008	Edit	Remove
9	Wings of Fire	APJ.AbdulKalam	Knowledge publish	750.0	2015	Edit	Remove
10	Ikigai	Edwin	Foreign publishers	550	2019	Edit	Remove

Updation of data is happening here

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

lid	lname	lauthor	lpublisher	lprice	ledition
1	Wings of Fire	APJ.AbdulKa...	AK publishers	500	2008
9	Wings of Fire	APJ.AbdulKa...	Knowledge publishers	750	2015
10	Ikigai	Edwin	Foreign publishers	550	2019
NULL	NULL	NULL	NULL	NULL	NULL

Data is added and updated in database

Data is deleted here

[Home](#)
[Insert](#)
[Search](#)
[Update](#)
[Delete](#)
[FindALL](#)
Library Management System

Insert here

Auto Generative Id

Enter book name

Enter author name

Enter publisher

Enter price

Enter edition

Save

Book Id	Book Name	Book Author	Publisher	Price	Edition	Update	Delete
9	Wings of Fire	APJAbdulKalam	Knowledge publish	750.0	2015	Edit	Remove
10	Ikigai	Edwin	Foreign publishers	550.0	2019	Edit	Remove

Data is deleted in the database also.

Result Grid			Filter Rows:	<input type="text"/>	Edit:				Export/Import:			Wrap Cell Content:	
	lid	lname	lauthor	publisher	price	edition							
	9	Wings of Fire	APJ.AbdulKa...	Knowledge publishers	750	2015							
	10	Ikigai	Edwin	Foreign publishers	550	2019							
**	NULL	NULL	NULL	NULL	NULL	NULL							

Simple validation have done

[Home](#) [Insert](#) [Search](#) [Update](#) [Delete](#) [FindALL](#) *Library Management System*

Add Book DetailsAdd

Book Name:
Wings of Fire

Book Author:
Enter Book author

Publish:
Enter publisher

Price:
Enter price

Edition:
Enter edition

Please fill out this field.