### **Project Summary**

A Blog web system with SpringMVC + Maven + Hibernate + MySQL with Annotation mapping. In this system, users can create own account, login the system. They can also create own passage, update or edit their passage, delete their passage. Moreover, users can view both own passages and passages wrote by others. User can comment on those passage and press 'like' button to like the passage.

### **Summary of Functionality Performed**

A User Can:

- 1. Register
- 2. Login: Use name+password
- 3. Create own passage: with title+description+content
- 4. View own passage
- 5. Edit own passage
- 6. Delete own passage
- 7. View all passages in blog: Read Only
- 8. Comment on passages
- 9. 'Like' one passage: 1 user for 1 chance to thumb

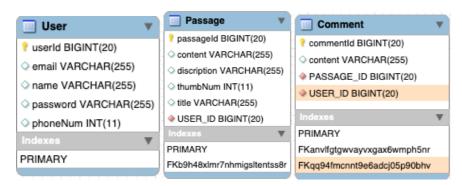
### Summary of the technologies used

Spring MVC + Maven + AJAX + Annoation Mapping + MySQL + Hibernate

- 1. Use spring form to inject a java bean entity
- 2. Use filter to check user session
- 3. Use validator to validate the null value in controller
- 4. Use Annotation mapping in controller implement hyperlink and jump between jsp pages
- 5. Use Hibernate Query, criteria in DAO class to implement query data from mySQL database
- 6. Use AJAX in validate duplicate user name (user name already exists in database) when user register.
- 7. Configure Maven environment

### Roles in this system

User:



- @OneToMany → user passage / passage -- comment
- @ManyToMany -> userLikes(the Passages user likes) Passages liked by user



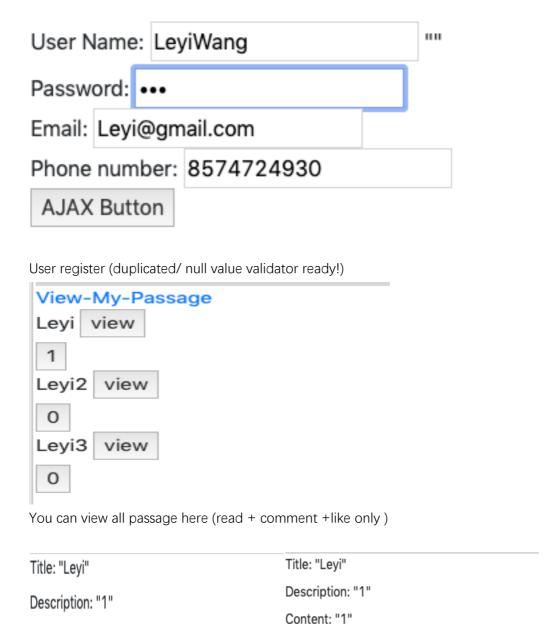
(This is a joint table)

#### Screen shots

Login Regist	er	
User Name:		
Password:		
login		

User Login

## Login|Register



User: "Leyi" Says: "No I am Real!!!!"

**Back To View** 

User: "LeyiWang" Says: "I am Real Leyi"

comment

You can comment and others comments also shows here!

comment

Content: "1"

**Back To View** 

User: "LeyiWang" Says: "I am Real Leyi"

### View-Public-Passage

```
"Leyi" > Edit
"Leyi2" > Edit
"Leyi3" > Edit
```

### Create

In own space, you can create edit and delete passage you own.

# **Code part:**

# 1. com.me.controller HomeController

```
package com.me.controller;
import java.util.Locale;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.RequestMapping;
import\ org. spring framework. we b. bind. annotation. Request Method;
/**
 * Handles requests for the application home page.
@Controller
@RequestMapping(value = "/")
public class HomeController {
    private static final Logger logger = LoggerFactory.getLogger(HomeController.class);
    /**
     * Simply selects the home view to render by returning its name.
    @RequestMapping(value = "/", method = RequestMethod.GET)
```

```
public String home(Locale locale, Model model) {
    logger.info("Welcome home! The client locale is {}.", locale);
    return "home";
}
```

### PassageController

package com.me.controller;

import java.util.ArrayList; import java.util.List; import java.util.Set;

import javax.annotation.Resource; import javax.servlet.http.HttpServletRequest; import javax.servlet.http.HttpSession;

import org.springframework.beans.factory.annotation.Autowired; import org.springframework.stereotype.Controller; import org.springframework.ui.ModelMap; import org.springframework.validation.BindingResult; import org.springframework.validation.annotation.Validated; import org.springframework.web.bind.WebDataBinder; import org.springframework.web.bind.annotation.InitBinder; import org.springframework.web.bind.annotation.ModelAttribute; import org.springframework.web.bind.annotation.RequestMapping; import org.springframework.web.bind.annotation.RequestMethod; import org.springframework.web.servlet.ModelAndView;

import com.me.dao.PassageDao; import com.me.dao.UserDao; import com.me.exception.CommentException; import com.me.exception.PassageException; import com.me.exception.UserException; import com.me.pojo.Comment; import com.me.pojo.Passage; import com.me.pojo.User; import com.me.validator.PassageValidator; import com.me.validator.UserValidator;

```
@Controller
@RequestMapping("/user")
public class PassageController {
    @Autowired
    PassageValidator passagevalidator;
    @Autowired
    PassageDao passageDao;
    // Set a form validator
    @InitBinder
    protected void initBinder(WebDataBinder binder) {
        binder.setValidator(passagevalidator);
    }
    @RequestMapping(value="createPassage.htm", method = RequestMethod.GET)
    public String formView(ModelMap model, HttpServletRequest req) {
        Passage passage = new Passage();
        model.addAttribute("passage", passage);
        return "createPassage";
    }
    @RequestMapping(value="deletePassage.htm", method = RequestMethod.GET)
    public ModelAndView deleteformView(ModelMap model, HttpServletRequest reg)
throws PassageException {
        HttpSession session = req.getSession();
        User user = (User)session.getAttribute("user");
        if(user == null) {
             return new ModelAndView("login");
        }else {
             long id =Long.parseLong(req.getParameter("passageId"));
             System.out.println(user);
             ArrayList<Passage>
                                       passages
                                                                  (ArrayList<Passage>)
passageDao.deletePassage(id,user);
             return new ModelAndView("viewOwnPassage","passageList",passages);
        }
    }
    @RequestMapping(value="viewAllPassage.htm", method = RequestMethod.GET)
    public ModelAndView viewAllPassageView(ModelMap model, Passage passage,
HttpServletRequest req) throws PassageException {
        ArrayList<Passage> passages = (ArrayList<Passage>) passageDao.getPassages();
```

```
req.setAttribute("passageList", passages);
        return new ModelAndView("viewAllPassage","passageList",passages);
    }
    //在这里加🍁
        @RequestMapping(value="viewAllPassage.htm", method = RequestMethod.POST)
        public ModelAndView viewAllPassageLikeView(ModelMap model, Passage passage,
HttpServletRequest req) throws PassageException, UserException {
             HttpSession s = req.getSession();
             if(s.getAttribute("user")!=null) {
                 User user=(User)s.getAttribute("user");
                 long passageId = Long.parseLong(req.getParameter("passageId"));
                 passage = passageDao.get(passageId);
                 int i = passageDao.likeArticle(passage, user);
                                                                 (ArrayList<Passage>)
                 ArrayList<Passage>
                                           passages
passageDao.getPassages();
                 req.setAttribute("passageList", passages);
                 return new ModelAndView("viewAllPassage","passageList",passages);
                 }
             return new ModelAndView("login");
        }
    @RequestMapping(value="viewOwnPassage.htm", method = RequestMethod.GET)
    public ModelAndView viewOwnPassageView(ModelMap model, Passage passage,
HttpServletRequest req) throws PassageException {
        HttpSession session = req.getSession();
        User user = (User)session.getAttribute("user");
        if(user == null) {
             return new ModelAndView("login");
        }else {
        ArrayList<Passage>
                                                                   (ArrayList<Passage>)
                                                       =
                                     passages
passageDao.getOwnPassages(user);
        req.setAttribute("passageList", passages);
        return new ModelAndView("viewOwnPassage","passageList",passages);
    }
    @RequestMapping(value="editOwnPassage.htm", method = RequestMethod.POST)
    public String updateFormView(ModelMap model, Passage passage, HttpServletRequest
req) throws PassageException {
        HttpSession s = req.getSession();
        if(s.getAttribute("user")!=null) {
             User user=(User)s.getAttribute("user");
```

```
passage.setUser(user);
             long passageId = Long.parseLong(req.getParameter("passageId"));
             passage = passageDao.get(passageId);
             model.addAttribute("passage", passage);
             s.setAttribute("passage", passage);
             return "editOwnPassage";
        }
        return "login";
    }
    @RequestMapping(value="viewOnePublicPassage.htm",
                                                                  method
RequestMethod.GET)
    public ModelAndView viewPublicPassageCommentFormView(ModelMap model,
Passage passage, HttpServletRequest req) throws PassageException, CommentException {
        HttpSession s = req.getSession();
        if(s.getAttribute("user")!=null) {
             String commentContent = req.getParameter("commentContent");
             if(commentContent!=null) {
                 User user=(User)s.getAttribute("user");
                 long passageId = Long.parseLong(req.getParameter("passageId"));
                 passage = passageDao.get(passageId);
                 Set < Comment > commentList = passageDao.addComment(passage,
commentContent, user);
                 s.setAttribute("passage", passage);
                 return
                                                                                  new
ModelAndView("viewOnePublicPassage","commentList",commentList);
             return new ModelAndView("viewAllPassage");
        return new ModelAndView("login");
    }
    @RequestMapping(value="viewOnePublicPassage.htm",
                                                                  method
RequestMethod.POST)
    public String viewPublicPassageFormView(ModelMap model, Passage passage,
HttpServletRequest req) throws PassageException {
        HttpSession s = req.getSession();
        if(s.getAttribute("user")!=null) {
             User user=(User)s.getAttribute("user");
             passage.setUser(user);
```

```
long passageId = Long.parseLong(req.getParameter("passageId"));
             passage = passageDao.get(passageId);
             model.addAttribute("passage", passage);
             s.setAttribute("passage", passage);
            return "viewOnePublicPassage";
        }
        return "login";
    }
// @ModelAttribute("passage") Passage passage,
    @RequestMapping(value="create-passage-success.htm",
                                                                  method
RequestMethod.POST)
    public ModelAndView successCreateView(@Validated @ModelAttribute("passage")
Passage passage, BindingResult bindingResult, ModelMap model,HttpServletRequest req)
throws UserException, PassageException {
        //如果用户名或密码不符合 返回 create Passage
        if (bindingResult.hasErrors()) {
             return new ModelAndView("createPassage"); //the are validation errors, go to
the form view
        HttpSession s = req.getSession();
        if(s.getAttribute("user")!=null) {
             User user=(User)s.getAttribute("user");
             passage.setUser(user);
             Passage pass = passageDao.createPassage(passage);
                                                                 (ArrayList<Passage>)
            ArrayList<Passage>
                                       passages
passageDao.getOwnPassages(user);
            req.setAttribute("passageList", passages);
             return new ModelAndView("viewOwnPassage","passageList", passages);
        }
//
        session user 不存在 去登陆
        return new ModelAndView("login");
   }
    @RequestMapping(value="viewOwnPassage.htm", method = RequestMethod.POST)
    public ModelAndView successUpdateView(@Validated @ModelAttribute("passage")
Passage passage, BindingResult bindingResult, ModelMap model,HttpServletRequest req)
throws UserException, PassageException {
        //如果用户名或密码不符合 返回自己
        if (bindingResult.hasErrors()) {
             return new ModelAndView("editOwnPassage"); //the are validation errors, go
```

```
to the form view
         long passageId = Long.parseLong(req.getParameter("pld"));
         Passage p = passageDao.get(passageId);
         HttpSession session = req.getSession();
         User user = (User)session.getAttribute("user");
         String content = passage.getContent();
         p.setContent(content);
//
         (Passage)session.getAttribute("passage"))
         if(user == null) {
             return new ModelAndView("login");
         }else {
             if(passageDao.updatePassage(p)) {
                  ArrayList<Passage>
                                                                     (ArrayList<Passage>)
                                            passages
passageDao.getOwnPassages(user);
                  req.setAttribute("passageList", passages);
                  System.out.print(passage.getContent());
                  return new ModelAndView("viewOwnPassage","passageList", passages);
             }else {
                  return new ModelAndView("login");
             }
        }
    }
}
```

### Login controller

```
package com.me.controller;

import java.util.ArrayList;
import javax.annotation.Resource;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpSession;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
```

```
import org.springframework.ui.ModelMap;
import org.springframework.validation.BindingResult;
import org.springframework.validation.annotation.Validated;
import org.springframework.web.bind.WebDataBinder;
import org.springframework.web.bind.annotation.lnitBinder;
import org.springframework.web.bind.annotation.ModelAttribute;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
import com.me.dao.PassageDao;
import com.me.dao.UserDao;
import com.me.exception.PassageException;
import com.me.exception.UserException;
import com.me.pojo.Passage;
import com.me.pojo.User;
import com.me.validator.UserValidator;
@Controller
public class UserLoginController {
    @Autowired
    UserValidator uservalidator;
    @Autowired
    UserDao userDao;
    @Autowired
    PassageDao passageDao;
    // Set a form validator
    @InitBinder
    protected void initBinder(WebDataBinder binder) {
        binder.setValidator(uservalidator);
    }
    @RequestMapping(value="login.htm", method = RequestMethod.GET)
    public String formView(ModelMap model, User user, HttpServletRequest req) {
        model.addAttribute("user", user);
        return "login";
    }
    @RequestMapping(value="user.htm", method = RequestMethod.POST)
    public String successView(@Validated @ModelAttribute("user") User user, BindingResult
bindingResult, ModelMap model,HttpServletRequest req) throws UserException,
```

```
//如果用户名或密码不符合 返回 "login"
         if (userDao.login(user.getName(), user.getPassword())==null ) {  // 差
validation!!!!
             return "login"; //the are validation errors, go to the form view
        }
         user = userDao.login(user.getName(), user.getPassword());
         //no errors, so go to the success view
         HttpSession s = req.getSession();
         s.setAttribute("user", user);
         Passage passage = new Passage();
//
         model.addAttribute("passage",passage);
         req.setAttribute("passage", passage);
         ArrayList<Passage> passages = (ArrayList<Passage>) passageDao.getPassages();
         req.setAttribute("passageList", passages);
         return "viewAllPassage";
    }
}
```

### RegisterController

```
package com.me.controller;

import java.io.IOException;

import javax.annotation.Resource;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.ui.ModelMap;
import org.springframework.validation.BindingResult;
import org.springframework.validation.annotation.Validated;
import org.springframework.web.bind.WebDataBinder;
import org.springframework.web.bind.annotation.InitBinder;
import org.springframework.web.bind.annotation.ModelAttribute;
import org.springframework.web.bind.annotation.RequestMapping;
```

```
import org.springframework.web.servlet.ModelAndView;
import com.me.dao.UserDao;
import com.me.exception.UserException;
import com.me.pojo.User;
import com.me.validator.UserValidator;
@Controller
@RequestMapping("/register.htm")
public class UserRegisterController {
    @Autowired
    UserValidator uservalidator;
    @Autowired
    UserDao userDao;
    // Set a form validator
    @InitBinder
    protected void initBinder(WebDataBinder binder) {
         binder.setValidator(uservalidator);
    }
    @RequestMapping( method = RequestMethod.GET)
// @RequestMapping("/register.htm")
    public String formView(ModelMap model, User user, HttpServletRequest req) {
         model.addAttribute("user", user);
         return "register";
    }
    @RequestMapping(method = RequestMethod.POST)
    public String successView(@Validated @ModelAttribute("user") User user, BindingResult
bindingResult, ModelMap model,HttpServletRequest req ,HttpServletResponse resp) throws
UserException, IOException {
         if (bindingResult.hasErrors()) {
             return "register"; //the are validation errors, go to the form view
         if(userDao.isUserExsist(req.getParameter("name"))) {
             req.setAttribute("alert", "Dupulicate!!");
             return "register";
         //no errors, so go to the success view
```

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

```
req.setAttribute("alert", "");
    userDao.register(user);
    return "user-success";
}
```

### **View**

### createPassage.jsp

```
<%@ page session="true" %>
<%@ taglib prefix="form" uri="http://www.springframework.org/tags/form"%>
                  language="java"
                                     contentType="text/html;
         page
                                                                 charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-</pre>
fit=no">
    <!-- Bootstrap CSS -->
                                                                      rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css"
integrity="sha384-
ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T"
crossorigin="anonymous">
<meta charset="UTF-8">
<title>Login</title>
</head>
<body>
<form:form modelAttribute="passage" action="/userapp/user/create-passage-success.htm"</pre>
method="POST">
<a
                href="createPassage.htm">Create
                                                          Α
                                                                     Passage</a>|<a
href="home.htm">Update(meixiehao)</a><br/>
<div id="createP">
Passage Title: <form:input path="title"/> <form:errors path="title"/> <br/>
Description: <form:input path="discription"/> <form:errors path="discription"/> <br/>
Content: <form:input path="content"/> <br/>
```

```
<input type="submit" value="create"/>
</div>
</form:form>
</body>
</html>
editownPassage.jsp
<%@ page session="true" %>
<%@ taglib prefix="form" uri="http://www.springframework.org/tags/form"%>
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<!DOCTYPE html>
<html>
<head>
<!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-</pre>
fit=no">
    <!-- Bootstrap CSS -->
    k
                                                                       rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css"
integrity="sha384-
ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T"
crossorigin="anonymous">
<script>
function myFunction(){
    if(window.confirm("You Sure Want delete this?")){
        window.location.href
"http://localhost:8080/userapp/user/deletePassage.htm?passageId=${passage.passageId}}";
    }else{
        window.location.href = "http://www.baidu.com";
    }
}
</script>
<meta charset="UTF-8">
<title>EDIT</title>
</head>
<body>
<form:form
                                                             modelAttribute="passage"
action="/userapp/user/viewOwnPassage.htm?pld=${passage.passageld}" method="POST">
    Passage Title: <form:input path="title" value="${passage.title }"/> <form:errors
path="title"/><br/>
```

```
Description:
                  <form:input path="discription" value="${passage.discription }"/>
<form:errors path="discription"/><br/>
    Content: <form:input path="content" value="${passage.content}"/> <br/>
    <input type="submit" value="update"/>
    <button type="button" onclick="myFunction()" >Delete</button>
</form:form>
</body>
</html>
Home
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<%@ page session="false" %>
<html>
<head>
<!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-</pre>
fit=no">
    <!-- Bootstrap CSS -->
    link
                                                                      rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css"
integrity="sha384-
ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T"
crossorigin="anonymous">
    <title>Home</title>
</head>
<body>
<a href="login.htm">Click Here to go to the USER FORM VIEW</a>
</body>
</html>
Login.jsp
<%@ page session="true" %>
<%@ taglib prefix="form" uri="http://www.springframework.org/tags/form"%>
                                     contentType="text/html;
                                                                 charset=ISO-8859-1"
<%@
                  language="java"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
```

```
<head>
<!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-</pre>
fit=no">
    <!-- Bootstrap CSS -->
    link
                                                                     rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css"
integrity="sha384-
ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T"
crossorigin="anonymous">
<meta charset="UTF-8">
<title>Login</title>
</head>
<body>
<form:form commandName="user" action="user.htm" method="POST">
<a href="login.htm">Login</a>|<a href="register.htm">Register</a><br/>br/>
<div id="login">
User Name: <form:input path="name"/> <form:errors path="name"/><br/>
Password: <form:input path="password"/> <form:errors path="password"/> <br/>
<input type="submit" value="login"/>
</div>
</form:form>
</body>
</html>
Register.jsp
<%@ page session="true" %>
<%@ taglib prefix="form" uri="http://www.springframework.org/tags/form"%>
                                     contentType="text/html;
                                                                charset=ISO-8859-1"
<%@
        page
                 language="java"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE
              html
                       PUBLIC
                                 "-//W3C//DTD
                                                  HTML
                                                            4.01
                                                                    Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-</pre>
fit=no">
```

```
<!-- Bootstrap CSS -->
    link
                                                                     rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css"
integrity="sha384-
ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T"
crossorigin="anonymous">
<title>Register</title>
<meta charset="utf-8">
<script>
function loadXMLDoc()
{
    var xmlhttp;
    if (window.XMLHttpRequest)
    {
        // IE7+, Firefox, Chrome, Opera, Safari 浏览器执行代码
        xmlhttp=new XMLHttpRequest();
    }
    else
    {
        // IE6, IE5 浏览器执行代码
        xmlhttp=new ActiveXObject("Microsoft.XMLHTTP");
    xmlhttp.onreadystatechange=function()
        if (xmlhttp.readyState==4 && xmlhttp.status==200)
             document.getElementById("register").innerHTML=xmlhttp.responseText;
        }
    xmlhttp.open("POST","register.htm",true);
    xmlhttp.send();
</script>
</head>
<body>
<div id="register">
<form:form commandName="user" action="register.htm" method="POST">
<a href="login.htm">Login</a>|<a href="register.htm">Register</a><br/>br/>
                  <form:input
                                name="name"
                                                 path="name"
User
        Name:
                                                                  />
                                                                        <form:errors
path="name"/><label>"${requestScope.alert}"</label><br/>
Password:
             <form:input
                             type="password"
                                                 path="password"/>
                                                                        <form:errors
```

```
path="password"/><br/>
Email: <form:input type="email" path="email"/> <form:errors path="email"/> <br/>
Phone number: <form:input path="phoneNum"/> <form:errors path="phoneNum"/> <br/>
          onclick="loadXMLDoc()">AJAX Button</button>
</form:form>
</div>
</body>
</body>
</html>
<%@
         page
                  language="java"
                                     contentType="text/html;
                                                                charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE
               html
                       PUBLIC
                                 "-//W3C//DTD
                                                   HTML
                                                             4.01
                                                                     Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Insert title here</title>
<!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-</pre>
fit=no">
    <!-- Bootstrap CSS -->
                                                                      rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css"
integrity="sha384-
ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T"
crossorigin="anonymous">
</head>
<body>
Welcome
                     ${requestScope.user.name}
                                                            ${requestScope.user.email}
${requestScope.user.password} ${requestScope.user.phoneNum}
</body>
</html>
viewAllPages.jsp
<%@ page session="true" %>
<%@ taglib prefix="form" uri="http://www.springframework.org/tags/form"%>
<%@ taglib prefix = "c" uri = "http://java.sun.com/jsp/jstl/core" %>
```

```
<html>
<head>
<meta charset="UTF-8">
<title>Login</title>
<!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-</pre>
fit=no">
    <!-- Bootstrap CSS -->
    k
                                                                     rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css"
integrity="sha384-
ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T"
crossorigin="anonymous">
</head>
<body>
<a href="/userapp/user/viewOwnPassage.htm">View-My-Passage</a>
<!-- 只能看点赞评论 不能查/修改的公共区域 -->
<c:forEach var="passage" items="${requestScope.passageList}">
    <form action="/userapp/user/viewOnePublicPassage.htm" method="POST" >
        <label >${passage.title}</label>
        <input type="hidden" name="passageld" value="${passage.passageld}">
        <input type="submit" value="view"/>
    </form>
    <form action="/userapp/user/viewAllPassage.htm" method="POST" >
        <input type="submit" value="${passage.thumbNum }"></br>
        <input type="hidden" name="passageId" value="${passage.passageId}">
    </form>
</c:forEach>
</body>
</html>
viewOwnPublicPassage
<%@ page session="true" %>
<%@ taglib prefix="form" uri="http://www.springframework.org/tags/form"%>
<%@ taglib prefix = "c" uri = "http://java.sun.com/jsp/jstl/core" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Login</title>
<!-- Required meta tags -->
```

<!DOCTYPE html>

```
<meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-</pre>
fit=no">
    <!-- Bootstrap CSS -->
                                                                      rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css"
integrity="sha384-
ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T"
crossorigin="anonymous">
</head>
<body>
<a href="/userapp/user/viewOwnPassage.htm">View-My-Passage</a>
<!-- 只能看点赞评论 不能查/修改的公共区域 -->
<c:forEach var="passage" items="${requestScope.passageList}">
    <form action="/userapp/user/viewOnePublicPassage.htm" method="POST" >
        <label >${passage.title}</label>
        <input type="hidden" name="passageld" value="${passage.passageld}">
        <input type="submit" value="view"/>
    </form>
    <form action="/userapp/user/viewAllPassage.htm" method="POST" >
        <input type="submit" value="${passage.thumbNum }"></br>
        <input type="hidden" name="passageld" value="${passage.passageld}">
    </form>
</c:forEach>
</body>
</html>
viewOnePassage.jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"</pre>
    pageEncoding="UTF-8"%>
<%@ taglib prefix = "c" uri = "http://java.sun.com/jsp/jstl/core" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>View Public Passage</title>
<!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-</pre>
fit=no">
    <!-- Bootstrap CSS -->
```

```
k
                                                                           rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css"
integrity="sha384-
ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T"
crossorigin="anonymous">
</head>
<body>
    <label>Title: "${sessionScope.passage.title}"</label><br/>
    <label>Description: "${sessionScope.passage.discription}"</label><br/>
    <label>Content: "${sessionScope.passage.content}"</label><br/>
    <c:forEach var="comment" items="${requestScope.commentList}">
         <label>User: "${comment.user }"</label>
         <label> Says: "${comment.content}"</label><br/>
    </c:forEach>
    <form action="/userapp/user/viewOnePublicPassage.htm" method="get">
         <input type="text" name="commentContent">
         <input type="hidden" name = "passageld" value="${passage.passageld}">
         <input type="submit" value="comment">
    <a href="viewAllPassage.htm">Back To View</a>
</body>
</html>
ViewOwnPassage.jsp
<%@ page session="true" %>
<%@ taglib prefix="form" uri="http://www.springframework.org/tags/form"%>
<%@ taglib prefix = "c" uri = "http://java.sun.com/jsp/jstl/core" %>
<!DOCTYPE html>
<html>
<head>
<!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
    <!-- Bootstrap CSS -->
    link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css"
integrity="sha384-ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T"
crossorigin="anonymous">
<script>
function myFunction(){
         window.location.href = "http://localhost:8080/userapp/user/createPassage.htm"
}
```

```
</script>
<meta charset="UTF-8">
<title>Login</title>
</head>
<body>
<a href="/userapp/user/viewAllPassage.htm">View-Public-Passage</a>
<!-- user 自己写的 能看能查能改 -->
<div id="viewOwnPassage">
    <c:forEach var="passage" items="${requestScope.passageList}">
         <form method="POST" action="/userapp/user/editOwnPassage.htm">
             <label>"${passage.title}" ></label>
             <input type="hidden" name="passageld" value="${passage.passageld}" />
             <input type="submit" value="Edit" >
             <br/>
         </form>
    </c:forEach>
    <br/>
    <button type="button" onclick="myFunction()" >Create</button>
</div>
</body>
</html>
DAO
package com.me.dao;
import org.hibernate.HibernateException;
import com.me.exception.CommentException;
import com.me.pojo.Comment;
public class CommentDao extends DAO {
    //Create a comment
    public Comment createPassage(Comment comment) throws CommentException {
         try {
             begin();
             getSession().merge(comment);
             commit():
             return comment;
         } catch (HibernateException e) {
             rollback();
             throw new CommentException("Exception while creating user: " +
```

```
e.getMessage());
    }
}
package com.me.dao;
import java.util.logging.Level;
import java.util.logging.Logger;
import org.hibernate.HibernateException;
import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.cfg.Configuration;
public class DAO {
    private static final Logger log = Logger.getAnonymousLogger();
    private static final ThreadLocal sessionThread = new ThreadLocal();
    private
                 static
                             final
                                       SessionFactory
                                                            sessionFactory
                                                                                        new
Configuration().configure("hibernate.cfg.xml").buildSessionFactory();
    protected DAO() {
    }
    public static Session getSession()
    {
         Session session = (Session) DAO.sessionThread.get();
         if (session == null)
              session = sessionFactory.openSession();
              DAO.sessionThread.set(session);
         return session;
    }
    protected void begin() {
```

```
getSession().beginTransaction();
    }
    protected void commit() {
         getSession().getTransaction().commit();
    }
    protected void rollback() {
         try {
              getSession().getTransaction().rollback();
         } catch (HibernateException e) {
              log.log(Level.WARNING, "Cannot rollback", e);
         }
         try {
              getSession().close();
         } catch (HibernateException e) {
              log.log(Level.WARNING, "Cannot close", e);
         }
         DAO.sessionThread.set(null);
    }
    public static void close() {
         getSession().close();
         DAO.sessionThread.set(null);
    }
}
package com.me.dao;
import java.util.List;
import java.util.Set;
import org.hibernate.HibernateException;
import org.hibernate.Query;
import com.me.exception.CommentException;
import com.me.exception.PassageException;
import com.me.exception.UserException;
import com.me.pojo.Comment;
import com.me.pojo.Passage;
import com.me.pojo.User;
public class PassageDao extends DAO {
```

```
//create a passage
    public Passage createPassage(Passage passage) throws PassageException {
             begin();
             getSession().merge(passage);
             commit();
             return passage;
         } catch (HibernateException e) {
             rollback();
             throw new PassageException("Exception while creating user:
e.getMessage());
         }
    }
    //delete a passage
    public
              List<Passage>
                                deletePassage(long
                                                       passageld,User
                                                                         user)
                                                                                  throws
PassageException{
             Passage passage = get(passageId);
             passage.setUser(null);
             Set<Passage> passageList = user.getPassageCatelog();
             Set<Passage> userlikepassageList = user.getUserLikes();
             passageList.remove(passage);
             userlikepassageList.remove(passage);
             user.setPassageCatelog(passageList);
             user.setUserLikes(userlikepassageList);
             try {
             begin();
//
             commit();
//
             begin();
             getSession().delete(passage);
             commit();
             List<Passage> passages = getOwnPassages(user);
             return passages;
         } catch (HibernateException e) {
             rollback();
             throw new PassageException("Exception while deleting user: "
e.getMessage());
         }
    }
```

```
//Update a passage
    public boolean updatePassage(Passage passage) throws PassageException {
              passage = get(passage.getPassageId());
             begin();
              getSession().update(passage);
             commit();
             return true:
         } catch (HibernateException e) {
             rollback();
             throw new PassageException("Exception while updating user: "
e.getMessage());
         }
    }
    //View a passage
    public List<Passage> getPassages() throws PassageException{
         List<Passage> passages;
         try{
             begin();
              String hql = "from Passage";
             Query query = getSession().createQuery(hql);
             query.setMaxResults(10);
              passages = query.list();
             commit();
//
               getSession().flush();
         }catch(Exception e){
             super.rollback();
              throw new PassageException("Get all public Passage dao error", e.getCause());
        }
         return passages;
    }
    //Get Own Passage List
    public List<Passage> getOwnPassages(User user) throws PassageException{
         List<Passage> passages;
         try{
             begin();
              String hql = "from Passage where USER_ID = :userId";
              Query query = getSession().createQuery(hql);
              query.setLong("userld", user.getUserld());
              query.setMaxResults(10);
```

```
passages = query.list();
             commit();
//
               getSession().flush();
        }catch(Exception e){
             super.rollback();
             throw new PassageException("get all private Passage dao error", e.getCause());
       }
        return passages;
    }
    //Get Passage in passageId
    public Passage get(long passageId) throws PassageException {
        try {
             begin();
             Query q = getSession().createQuery("from Passage where passageId
= :passageId");
             q.setLong("passageId", passageId);
             Passage passage = (Passage) q.uniqueResult();
             commit();
             return passage;
        } catch (HibernateException e) {
             rollback();
             throw new PassageException("Could not get Passage " + passageId, e);
        }
    }
    //add comment
    public Set<Comment> addComment(Passage passage, String comment, User user)
throws CommentException{
        Set < Comment > commentList:
        try{
             begin();
             commentList = passage.getCommentCatelog();
             Comment comments = new Comment();
             comments.setContent(comment);
             comments.setPassage(passage);
             comments.setUser(user);
             commentList.add(comments);
             getSession().save(comments);
             commit();
//
               getSession().flush();
        }catch(Exception e){
             super.rollback();
             throw new CommentException("Passage dao error in add comment",
```

```
e.getCause());
         return commentList;
    }
    //liked
    public int likeArticle(Passage passage, User user) throws UserException{
         int likeNum;
         String errorMessage=null;
         Set<User> likedBy = passage.getLikedByList();
         try{
              super.begin();
              likedBy.add(user);
              passage.setLikedByList(likedBy);
              likeNum = passage.getLikedByList().size();
              passage.setThumbNum(likeNum);
              getSession().merge(passage);
              super.commit();
              errorMessage = "super.commit();";
         }catch(Exception e){
              super.rollback();
              throw new UserException(errorMessage, e.getCause());
        }
         return likeNum;
    }
}
package com.me.dao;
import org.hibernate.Criteria;
import org.hibernate.HibernateException;
import org.hibernate.Query;
import org.hibernate.criterion.Restrictions;
import org.hibernate.mapping.List;
import com.me.exception.UserException;
import com.me.pojo.User;
```

```
public class UserDao extends DAO {
    public UserDao() {
    }
    //得到 UserID
    public User get(long userId) throws UserException {
         try {
              begin();
              Query q = getSession().createQuery("from User where userId = :userId");
              q.setLong("userId", userId);
              User user = (User) q.uniqueResult();
              commit();
              return user;
         } catch (HibernateException e) {
              rollback();
              throw new UserException("Could not get user " + userId, e);
         }
    }
    //注册 User
    public User register(User u) throws UserException {
         try {
              begin();
              getSession().save(u);
              commit();
              return u;
         } catch (HibernateException e) {
              rollback();
              throw new UserException("Exception while creating user: " + e.getMessage());
         }
    }
    //删除 User
    public void delete(User user) throws UserException {
         try {
              begin();
              getSession().delete(user);
              commit();
         } catch (HibernateException e) {
              rollback();
              throw new UserException("Could not delete user " + user.getName(), e);
         }
```

```
}
//Login User
public User login(String name, String password) throws UserException{
     try {
         begin();
         Criteria cri = getSession().createCriteria(User.class);
         cri.add(Restrictions.eq("name", name));
         if(cri.uniqueResult()==null) {
              commit();
              return null;
         }
         User user = (User)cri.uniqueResult();
         if(user.getPassword().equals(password)) {
              commit();
              return user;
         }else {
              commit();
              return null;
    } catch (HibernateException e) {
         rollback();
         throw new UserException("Could not Search user", e);
    }
}
//Get user Name
public User getUserName(String name) throws UserException {
     try {
         begin();
         Query q = getSession().createQuery("from User where name = :name");
         q.setString("name", name);
         if(q.uniqueResult()==null) {
              commit();
              return null;
         User user = (User) q.uniqueResult();
         commit();
         return user;
    } catch (HibernateException e) {
         rollback();
         throw new UserException("Could not get user by name" + name, e);
    }
}
```

```
//Exsist
    public boolean isUserExsist(String name) throws UserException {
        if(getUserName(name)!=null) {
             //存在返回 true
             return true;
        }
        return false:
    }
}
POJO
package com.me.pojo;
import javax.persistence.CascadeType;
import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.FetchType;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.ld;
import javax.persistence.JoinColumn;
import javax.persistence.ManyToOne;
import javax.persistence.PrimaryKeyJoinColumn;
@Entity
@PrimaryKeyJoinColumn(name="COMMENT_ID")
public class Comment {
    @ld
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private long commentId;
    @Column(name = "content")
    private String content;
```

@ManyToOne(targetEntity=com.me.pojo.User.class, cascade = CascadeType.MERGE)

```
@JoinColumn(
             name="USER_ID",nullable=false)
    private User user;
    @Many To One (target Entity = com.me.pojo. Passage. class,
                                                                     cascade
                                                                                       =
CascadeType.MERGE)
    @JoinColumn(
             name="PASSAGE_ID",nullable=false)
    private Passage passage;
    public String getContent() {
         return content;
    }
    public void setContent(String content) {
         this.content = content;
    }
    public User getUser() {
         return user;
    }
    public void setUser(User user) {
         this.user = user;
    }
    public long getCommentId() {
         return commentId;
    }
    public void setCommentId(long commentId) {
         this.commentId = commentId;
    }
    public Passage getPassage() {
         return passage;
    }
    public void setPassage(Passage passage) {
         this.passage = passage;
    }
```

}

```
package com.me.pojo;
import java.util.Set;
import javax.persistence.CascadeType;
import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.FetchType;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.ld;
import javax.persistence.JoinColumn;
import javax.persistence.JoinTable;
import javax.persistence.ManyToMany;
import javax.persistence.ManyToOne;
import javax.persistence.OneToMany;
import javax.persistence.OneToOne;
import javax.persistence.PrimaryKeyJoinColumn;
@Entity
@PrimaryKeyJoinColumn(name="PASSAGE_ID")
public class Passage {
    @ld
    @GeneratedValue(strategy=GenerationType.IDENTITY)
    private long passageld;
    @Column(name = "title")
    private String title;
    @Column(name = "discription")
    private String discription;
    @Column(name = "content")
    private String content;
    @Column(name = "thumbNum")
    private int thumbNum;
    @ManyToOne(targetEntity=com.me.pojo.User.class, fetch = FetchType.LAZY, cascade =
CascadeType.ALL)
    @JoinColumn(name = "USER_ID",nullable=false)
    private User user;
```

```
@OneToMany(targetEntity=com.me.pojo.Comment.class,fetch =
                                                                        FetchType.LAZY,
cascade = CascadeType.ALL,mappedBy="passage")
    private Set<Comment> commentCatelog;
    @ManyToMany
    @JoinTable(name="Passage_User_Like")
    public Set<User> likedByList;
    public Passage() {
    }
    public Set<User> getLikedByList() {
        return likedByList;
    }
    public void setLikedByList(Set<User> likedByList) {
        this.likedByList = likedByList;
    }
    public String getContent() {
        return content;
    }
    public void setContent(String content) {
        this.content = content;
    }
    public long getPassageId() {
        return passageld;
    public void setPassageId(long id) {
        this.passageId = id;
    public String getTitle() {
```

```
}
    public void setTitle(String title) {
         this.title = title;
    }
    public String getDiscription() {
         return discription;
    }
    public void setDiscription(String discription) {
         this.discription = discription;
    }
    public int getThumbNum() {
         return thumbNum;
    }
    public void setThumbNum(int thumbCount) {
         this.thumbNum = thumbCount;
    }
    public User getUser() {
         return user;
    public void setUser(User user) {
         this.user = user;
    public Set<Comment> getCommentCatelog() {
         return commentCatelog;
    }
    public void setCommentCatelog(Set<Comment> commentCatelog) {
         this.commentCatelog = commentCatelog;
    }
}
package com.me.pojo;
import java.util.HashSet;
import java.util.Set;
import javax.persistence.CascadeType;
import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.FetchType;
```

return title;

```
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.ld;
import javax.persistence.JoinColumn;
import javax.persistence.JoinTable;
import javax.persistence.ManyToMany;
import javax.persistence.OneToMany;
import javax.persistence.PrimaryKeyJoinColumn;
@Entity
@PrimaryKeyJoinColumn(name="USER_ID")
public class User {
    @ld
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private long userId;
    @Column(name = "name")
    private String name;
    @Column(name = "password")
    private String password;
    @Column(name = "email")
    private String email;
    @Column(name = "phoneNum")
    private int phoneNum;
    @OneToMany(targetEntity=com.me.pojo.Passage.class, mappedBy="user")
    //@JoinColumn(name = "USER_ID")
    private Set<Passage> passageCatelog;
    @OneToMany(targetEntity=com.me.pojo.Comment.class, cascade = CascadeType.ALL,
mappedBy="user")
    //@JoinColumn(name = "USER_ID")
    private Set<Comment> userComment;
    @ManyToMany(mappedBy="likedByList")
    //@JoinTable(name = "User_Passage", joinColumns = {@JoinColumn(name = "userId",
referencedColumnName = "userId")},inverseJoinColumns = {@JoinColumn(name =
"passageId", referencedColumnName = "passageId")})
    public Set<Passage> userLikes;
```

```
public User() {
}
public Set<Comment> getUserComment() {
    return userComment;
}
public void setUserComment(Set<Comment> userComment) {
    this.userComment = userComment;
}
public Set<Passage> getUserLikes() {
    return userLikes;
}
public void setUserLikes(Set<Passage> userLikes) {
    this.userLikes = userLikes;
}
public void setPassageCatelog(Set<Passage> passageCatelog) {
    this.passageCatelog = passageCatelog;
}
public Set<Passage> getPassageCatelog() {
    return passageCatelog;
}
public long getUserId() {
    return userId;
}
public void setUserId(long userId) {
```

```
this.userId = userId;
}
public String getName() {
    return name;
public void setName(String name) {
    this.name = name;
}
public String getPassword() {
    return password;
}
public void setPassword(String password) {
    this.password = password;
public String getEmail() {
    return email;
}
public void setEmail(String email) {
    this.email = email;
}
public int getPhoneNum() {
    return phoneNum;
}
public void setPhoneNum(int phoneNum) {
    this.phoneNum = phoneNum;
}
@Override
public String toString() {
    return
             name;
}
```

}