**作业4**

**题目4（网络编程）：**

基于JSP+JavaBean的用户登录程序。要求：使用mysql创建用户数据表，然后通过web中的表单输入用户名与密码，后台JavaBean程序在数据库中验证，根据登录成功或者失败进行不同的页面跳转。

姓名：毛尧俊 班级：13061903 学号：2019213895

说明：请复制代码和程序运行结果。

1）代码应该有注释

2）复制代码时，在eclipse中将代码字体设置为20，确保代码复制到文档中清晰。

3）复制代码时，应表标明代码对应的java源代码文件和package

代码复制在横线以下：

---------------------------------------------------------

文件结构：

.

├── Shop.iml

├── lib

│ ├── javax.annotation.jar

│ ├── javax.ejb.jar

│ ├── javax.jms.jar

│ ├── javax.persistence.jar

│ ├── javax.resource.jar

│ └── javax.transaction.jar

├── out

│ └── artifacts

│ └── Shop\_Web

│ ├── META-INF

│ │ └── MANIFEST.MF

│ ├── WEB-INF

│ │ ├── assets

│ │ ├── classes

│ │ │ └── org

│ │ │ └── example

│ │ │ ├── controller

│ │ │ │ ├── ConfirmServlet.class

│ │ │ │ ├── HelloServlet.class

│ │ │ │ ├── LoginServlet.class

│ │ │ │ └── ProductListServlet.class

│ │ │ ├── module

│ │ │ │ ├── ProductModule.class

│ │ │ │ └── UserModule.class

│ │ │ └── server

│ │ │ └── DB.class

│ │ ├── view

│ │ │ ├── confirm.jsp

│ │ │ ├── hello.jsp

│ │ │ ├── login.jsp

│ │ │ └── productList.jsp

│ │ └── web.xml

│ └── assets

│ ├── css

│ │ ├── confirm.css

│ │ ├── login.css

│ │ └── productList.css

│ ├── favicon.ico

│ ├── image

│ │ ├── close.png

│ │ ├── left-arrow.png

│ │ ├── right-arrow.png

│ │ ├── search.png

│ │ └── tick.png

│ └── js

│ └── utils.js

├── pom.xml

├── src

│ ├── main

│ │ ├── java

│ │ │ └── org

│ │ │ └── example

│ │ │ ├── controller

│ │ │ │ ├── ConfirmServlet.java

│ │ │ │ ├── HelloServlet.java

│ │ │ │ ├── LoginServlet.java

│ │ │ │ └── ProductListServlet.java

│ │ │ ├── module

│ │ │ │ ├── ProductModule.java

│ │ │ │ └── UserModule.java

│ │ │ └── server

│ │ │ └── DB.java

│ │ └── resources

│ │ └── image

│ └── test

│ └── java

├── target

│ ├── classes

│ │ └── org

│ │ └── example

│ │ ├── controller

│ │ │ ├── ConfirmServlet.class

│ │ │ ├── HelloServlet.class

│ │ │ ├── LoginServlet.class

│ │ │ └── ProductListServlet.class

│ │ ├── module

│ │ │ ├── ProductModule.class

│ │ │ └── UserModule.class

│ │ └── server

│ │ └── DB.class

│ └── generated-sources

│ └── annotations

└── web

├── WEB-INF

│ ├── view

│ │ ├── confirm.jsp

│ │ ├── hello.jsp

│ │ ├── login.jsp

│ │ └── productList.jsp

│ └── web.xml

└── assets

├── css

│ ├── confirm.css

│ ├── login.css

│ └── productList.css

├── favicon.ico

├── image

│ ├── close.png

│ ├── left-arrow.png

│ ├── right-arrow.png

│ ├── search.png

│ └── tick.png

└── js

└── utils.js

项目介绍：

该项目是一个非常简单的商品查询系统

采用Java+JSP+Maven+Tomcat+HTML+CSS+JavaScript+JQuery构建

Maven版本3.8.1

Tomcat版本9.0.45

JQuery版本3.6.0

项目采用MVC架构

响应式布局，UI适配市面上现阶段所有PC和绝大部分手机

pom.xml

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

<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/xsd/maven-4.0.0.xsd">

<modelVersion>4.0.0</modelVersion>

<groupId>org.example</groupId>

<artifactId>Shop</artifactId>

<version>1.0-SNAPSHOT</version>

<properties>

<maven.compiler.source>8</maven.compiler.source>

<maven.compiler.target>8</maven.compiler.target>

</properties>

<dependencies>

<!-- Servlet -->

<dependency>

<groupId>javax.servlet</groupId>

<artifactId>javax.servlet-api</artifactId>

<version>4.0.1</version>

<scope>compile</scope>

</dependency>

<!-- JSP -->

<dependency>

<groupId>javax.servlet.jsp</groupId>

<artifactId>jsp-api</artifactId>

<version>2.2</version>

<scope>provided</scope>

</dependency>

<!-- JSTL -->

<dependency>

<groupId>javax.servlet</groupId>

<artifactId>jstl</artifactId>

<version>1.2</version>

<scope>runtime</scope>

</dependency>

<!-- MySQL -->

<dependency>

<groupId>mysql</groupId>

<artifactId>mysql-connector-java</artifactId>

<version>8.0.11</version>

<scope>runtime</scope>

</dependency>

</dependencies>

</project>

web.xml

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

<web-app xmlns="http://xmlns.jcp.org/xml/ns/javaee"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee http://xmlns.jcp.org/xml/ns/javaee/web-app\_4\_0.xsd"

version="4.0">

<servlet>

<!-- 类名 -->

<servlet-name>hello</servlet-name>

<!-- 所在的包 -->

<servlet-class>org.example.controller.HelloServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>hello</servlet-name>

<!-- 访问的网址 -->

<url-pattern>/hello</url-pattern>

</servlet-mapping>

<servlet>

<!-- 类名 -->

<servlet-name>login</servlet-name>

<!-- 所在的包 -->

<servlet-class>org.example.controller.LoginServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>login</servlet-name>

<!-- 访问的网址 -->

<url-pattern>/login</url-pattern>

</servlet-mapping>

<servlet>

<!-- 类名 -->

<servlet-name>confirm</servlet-name>

<!-- 所在的包 -->

<servlet-class>org.example.controller.ConfirmServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>confirm</servlet-name>

<!-- 访问的网址 -->

<url-pattern>/confirm</url-pattern>

</servlet-mapping>

<servlet>

<!-- 类名 -->

<servlet-name>productList</servlet-name>

<!-- 所在的包 -->

<servlet-class>org.example.controller.ProductListServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>productList</servlet-name>

<!-- 访问的网址 -->

<url-pattern>/productList</url-pattern>

</servlet-mapping>

</web-app>

controller层

LoginServlet.java

package org.example.controller;

import org.example.server.DB;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

import java.io.IOException;

import java.nio.charset.StandardCharsets;

import java.sql.SQLException;

@WebServlet(name = "login", urlPatterns = "/login")

public class LoginServlet extends HttpServlet {

@Override

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

req.setCharacterEncoding(String.valueOf(StandardCharsets.UTF\_8));

resp.setContentType("text/html");

resp.setCharacterEncoding(String.valueOf(StandardCharsets.UTF\_8));

DB dbUtils = new DB();

try {

System.out.println("name: " + req.getParameter("username"));

String user\_name = req.getParameter("username");

String password = req.getParameter("password");

HttpSession session = req.getSession();

session.setMaxInactiveInterval(3700);

if (dbUtils.checkUser(user\_name, password)) {

session.setAttribute("res", "success");

req.getRequestDispatcher("/WEB-INF/view/confirm.jsp").forward(req, resp);

} else {

if (user\_name != null) {

session.setAttribute("res", "failed");

req.getRequestDispatcher("/WEB-INF/view/confirm.jsp").forward(req, resp);

}

}

}catch ( SQLException | ClassNotFoundException e) {

e.printStackTrace();

}

req.getRequestDispatcher("/WEB-INF/view/login.jsp").forward(req, resp);

}

@Override

protected void doPost(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {

doGet(req, resp);

}

}

ProductListServlet.java

package org.example.controller;

import org.example.server.DB;

import java.io.IOException;

import java.nio.charset.StandardCharsets;

import java.sql.SQLException;

import java.text.DateFormat;

import java.text.SimpleDateFormat;

import java.util.Date;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

@WebServlet(name = "productList", urlPatterns = "/productList")

public class ProductListServlet extends HttpServlet {

@Override

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

req.setCharacterEncoding(String.valueOf(StandardCharsets.UTF\_8));

resp.setContentType("text/html");

resp.setCharacterEncoding(String.valueOf(StandardCharsets.UTF\_8));

DB dbUtils = new DB();

try {

HttpSession session = req.getSession();

session.setMaxInactiveInterval(3600);

session.setAttribute("productList",dbUtils.getAllProducts());

}catch ( SQLException | ClassNotFoundException e) {

e.printStackTrace();

}

req.getRequestDispatcher("/WEB-INF/view/productList.jsp").forward(req, resp);

}

}

Module层

ProductModule.java

package org.example.module;

public class ProductModule {

private Integer id;

private String name;

private String sort;

private String code;

private String place;

private String price;

private String description;

public void setId(Integer id) {

this.id = id;

}

public Integer getId() {

return id;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public String getSort() {

return sort;

}

public void setSort(String sort) {

this.sort = sort;

}

public String getCode() {

return code;

}

public void setCode(String code) {

this.code = code;

}

public String getPlace() {

return place;

}

public void setPlace(String place) {

this.place = place;

}

public String getPrice() {

return price;

}

public void setPrice(String price) {

this.price = price;

}

public void setDescription(String description) {

this.description = description;

}

public String getDescription() {

return description;

}

}

UserModule.java

package org.example.module;

public class UserModule {

private Integer id;

private String username;

private String password;

public Integer getId() {

return id;

}

public void setId(Integer id) {

this.id = id;

}

public String getUsername() {

return username;

}

public void setUsername(String username) {

this.username = username;

}

public String getPassword() {

return password;

}

public void setPassword(String password) {

this.password = password;

}

}

View层

login.jsp

<%--

Created by IntelliJ IDEA.

User: myjdml

Date: 2021/5/5

Time: 2:15

To change this template use File | Settings | File Templates.

--%>

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

<%

String path = request.getContextPath();

String basePath = request.getScheme()+"://"+request.getServerName()+":"+request.getServerPort()+path;

%>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0, maximum-scale=1.0, user-scalable=no">

<title>Document</title>

<link rel="shortcut icon" href="<%=basePath%>/assets/favicon.ico" type="image/x-icon">

<link rel="stylesheet" href="<%=basePath%>/assets/css/login.css">

<script src="https://code.jquery.com/jquery-3.6.0.js" integrity="sha256-H+K7U5CnXl1h5ywQfKtSj8PCmoN9aaq30gDh27Xc0jk=" crossorigin="anonymous"></script>

</head>

<body>

<form class="login" action="${pageContext.request.contextPath}/login" method="post">

<h1 class="title">Login</h1>

<div class="inputComponent">

<input type="text" name="username">

<span data-placeholder="Username"></span>

</div>

<div class="inputComponent">

<input type="password" name="password">

<span data-placeholder="Password"></span>

</div>

<input class="loginBtn" type="submit" value="登录">

</form>

<script>

$(".inputComponent input").on("focus", function() {

$(this).addClass("focus");

})

$(".inputComponent input").on("blur", function() {

if ($(this).val() === "") {

$(this).removeClass("focus");

}

})

</script>

</body>

</html>

confirm.jsp

<%--

Created by IntelliJ IDEA.

User: myjdml

Date: 2021/5/5

Time: 13:30

To change this template use File | Settings | File Templates.

--%>

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

<%

String path = request.getContextPath();

String basePath = request.getScheme()+"://"+request.getServerName()+":"+request.getServerPort()+path;

String res = (String) session.getAttribute("res");%>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0, maximum-scale=1.0, user-scalable=no">

<title>WeShop</title>

<link rel="stylesheet" href="<%=basePath%>/assets/css/confirm.css">

<link rel="shortcut icon" href="<%=basePath%>/assets/favicon.ico" type="image/x-icon">

<script src="https://code.jquery.com/jquery-3.6.0.js" integrity="sha256-H+K7U5CnXl1h5ywQfKtSj8PCmoN9aaq30gDh27Xc0jk=" crossorigin="anonymous"></script>

</head>

<body>

<div class="content">

<img class="image" src="<%=basePath%>/assets/image/tick.png" alt="">

<p class="login-result"></p>

<div class="content\_\_success"></div>

<script>

let res = "<%=res%>";

console.log(res);

if (res === "success") {

$(".login-result").text("登录成功");

$(".content\_\_success").addClass("content\_\_success-img-right");

$(".image").attr("src", "<%=basePath%>/assets/image/tick.png")

$(".content\_\_success").on("click", function() {

$(location).attr("href", "./productList")

})

} else if (res === "failed") {

$(".login-result").text("登录失败");

$(".image").attr("src", "<%=basePath%>/assets/image/close.png")

$(".content\_\_success").addClass("content\_\_success-img-left");

$(".content\_\_success").on("click", function() {

$(location).attr("href", "./login")

})

}

</script>

</div>

</body>

</html>

productList.jsp

<%--

Created by IntelliJ IDEA.

User: myjdml

Date: 2021/5/8

Time: 7:54

To change this template use File | Settings | File Templates.

--%>

<%@ page import="org.example.module.ProductModule" %>

<%@ page import="java.util.ArrayList" %>

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

<% ArrayList<ProductModule> productList = (ArrayList<ProductModule>) session.getAttribute("productList"); %>

<%

String path = request.getContextPath();

String basePath = request.getScheme()+"://"+request.getServerName()+":"+request.getServerPort()+path;

%>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0, maximum-scale=1.0, user-scalable=no">

<title>Document</title>

<link rel="stylesheet" href="<%=basePath%>/assets/css/productList.css">

<link rel="shortcut icon" href="<%=basePath%>/assets/favicon.ico" type="image/x-icon">

<script src="https://code.jquery.com/jquery-3.6.0.js" integrity="sha256-H+K7U5CnXl1h5ywQfKtSj8PCmoN9aaq30gDh27Xc0jk=" crossorigin="anonymous"></script>

<script src="<%=basePath%>/assets/js/utils.js"></script>

</head>

<body>

<div class="header">

<div class="search">

<input type="text" class="select\_\_input" placeholder="输入商品编号进行查询">

<div class="search\_\_btn"></div>

</div>

<div class="list\_\_item" id="list\_\_title">

<div>商品名</div>

<div>分类</div>

<div>编码</div>

<div>产地</div>

<div>价格</div>

<div>描述</div>

</div>

</div>

<div class="list"></div>

<script>

// 初始化productList

let productList = [];

let obj;

<%

for(int i = 0;i < productList.size() ; i++ ) {

%>

obj = {};

obj.id = <%=productList.get(i).getId()%>

obj.sort = "<%=productList.get(i).getSort()%>"

obj.code = "<%=productList.get(i).getCode()%>"

obj.name = "<%=productList.get(i).getName()%>"

obj.place = "<%=productList.get(i).getPlace()%>"

obj.price = "<%=productList.get(i).getPrice()%>"

obj.discription = "<%=productList.get(i).getDescription()%>"

productList.push(obj);

obj = null;

<%}%>

// 数据初始化

$(".list").empty();

productList.forEach((item, index) => {

$(".list").append(`

<div class="list\_\_item">

<div>`+ item.name +`</div>

<div>`+ item.sort +`</div>

<div>`+ item.code +`</div>

<div>`+ item.place +`</div>

<div>`+ item.price +`</div>

<div>`+ item.discription +`</div>

</div>

`)

})

// 注册点击事件

$(".search\_\_btn").on("click", () => {

const inputVal = $(".select\_\_input").val();

if (inputVal !== "") {

getProductListByCode(inputVal);

}

})

</script>

</body>

</html>

CSS文件

login.css

@media screen and (max-width: 300px) {

.login {

width: 80%;

}

}

body {

box-sizing: border-box;

background-color: #a4b0be;

}

.login {

width: 350px;

height: 500px;

position: absolute;

left: 50%;

top: 50%;

transform: translate(-50%, -50%);

display: flex;

flex-flow: column;

justify-content: flex-start;

align-items: center;

background-color: #a4b0be;

border-radius: 37px;

box-shadow: 11px 11px 37px #8d97a3,

-11px -11px 37px #bbc9d9;

}

.title {

margin-top: 60px;

}

.inputComponent {

position: relative;

margin: 30px 0;

width: 75%;

border-bottom: 2px solid #182C61;

}

.inputComponent input {

border: none;

outline: none;

text-align: center;

width: 100%;

height: 30px;

line-height: 30px;

background: none;

font-size: 16px;

color: #2c2c54;

}

.inputComponent span::before {

/\* display: block; \*/

content: attr(data-placeholder);

text-align: center;

width: 100%;

height: 30px;

line-height: 30px;

z-index: -1;

color: #84817a;

position: absolute;

top: 0;

animation: normal;

transition: .7s;

}

.inputComponent span::after {

content: '';

position: absolute;

left: 50%;

width: 0%;

height: 2px;

background: linear-gradient(120deg, #3498db, #8e44ad);

transform: translateX(-50%);

transition: .7s ;

}

.focus + span::before {

top: -25px

}

.focus + span::after {

width: 100%;

}

.loginBtn {

display: block;

width: 60%;

height: 50px;

margin-top: 30px;

border: none;

border-radius: 25px;

background: linear-gradient(120deg, #3498db, #8e44ad, #3498db);

background-size: 200%;

color: #f7f1e3;

outline: none;

cursor: pointer;

transition: .7s;

}

.loginBtn:hover {

background-position: right;

}

confirm.css

body {

box-sizing: border-box;

background-color: #a4b0be;

}

.content {

width: 350px;

/\* height: 500px; \*/

position: absolute;

left: 50%;

top: 50%;

transform: translate(-50%, -50%);

display: flex;

flex-flow: column;

justify-content: flex-start;

align-items: center;

background-color: #a4b0be;

}

.content img {

width: 60px;

margin-top: 30px;

}

.content p {

margin: 30px 0;

}

.content\_\_success {

width: 70px;

height: 50px;

margin-top: 30px;

/\* border: 2px solid black; \*/

border-radius: 40px;

background: linear-gradient(145deg, #afbccb, #949eab);

box-shadow: 7px 7px 14px #7d8690,

-7px -7px 14px #cbdaec;

background-size: 30px;

background-position: center;

background-repeat: no-repeat;

transition: 1s;

cursor: pointer;

}

.content\_\_success-img-right {

background-image: url(../image/right-arrow.png) !important;

}

.content\_\_success-img-left {

background-image: url(../image/left-arrow.png) !important;

}

.content\_\_success:hover {

transform: scale(1.5);

}

productList.css

\* {

padding: 0;

margin: 0;

}

body {

box-sizing: border-box;

background-color: #a4b0be;

color: #2c2c54;

}

.header {

padding-top: 20px;

position: fixed;

top: 0;

background-color: #a4b0be;

width: 100%;

z-index: 2;

}

.search {

/\* height: 70px; \*/

/\* margin-top: 20px; \*/

display: flex;

justify-content: center;

align-items: center;

background-color: #a4b0be;

}

.search input {

-webkit-appearance: none;

display: block;

height: 35px;

width: 250px;

border: none;

outline: none;

background: none;

text-align: center;

border-radius: 20px;

background: #a4b0be;

box-shadow: 7px 7px 14px #7d8690,

-7px -7px 14px #cbdaec;

}

.search\_\_btn {

width: 35px;

height: 35px;

margin-left: 30px;

border-radius: 20px;

background: linear-gradient(145deg, #949eab, #afbccb);

box-shadow: 7px 7px 14px #7d8690,

-7px -7px 14px #cbdaec;

background-image: url(../image/search.png);

background-size: 25px;

background-repeat: no-repeat;

background-position: center;

cursor: pointer;

}

.list {

margin-top: 170px;

}

#list\_\_title {

border-radius: 20px;

margin-bottom: 10px;

}

#list\_\_title div {

color: #2c2c54;

}

.list\_\_item {

width: 90%;

/\* height: 40px; \*/

margin: 30px 0;

padding: 10px 5px;

display: flex;

justify-content: center;

align-items: center;

margin-left: 50%;

transform: translateX(-50%);

font-size: 14px;

border-radius: 10px;

box-shadow: 7px 7px 14px #7d8690,

-7px -7px 14px #cbdaec;

}

.list\_\_item div:nth-child(1),

.list\_\_item div:nth-child(2),

.list\_\_item div:nth-child(3),

.list\_\_item div:nth-child(4),

.list\_\_item div:nth-child(5)

{

flex: 1;

text-align: center;

padding: 0 2px;

color: #c23616;

}

.list\_\_item div:nth-child(6) {

flex: 2;

text-align: center;

padding: 0 2px;

color: #c23616;

}

JS文件

utils.js

const getProductListByCode = (code) => {

$(".list").empty();

productList.forEach((item, index) => {

if (item.code === code) {

$(".list").append(`

<div class="list\_\_item">

<div>`+ item.name +`</div>

<div>`+ item.sort +`</div>

<div>`+ item.code +`</div>

<div>`+ item.place +`</div>

<div>`+ item.price +`</div>

<div>`+ item.discription +`</div>

</div>

`)

}

})

}

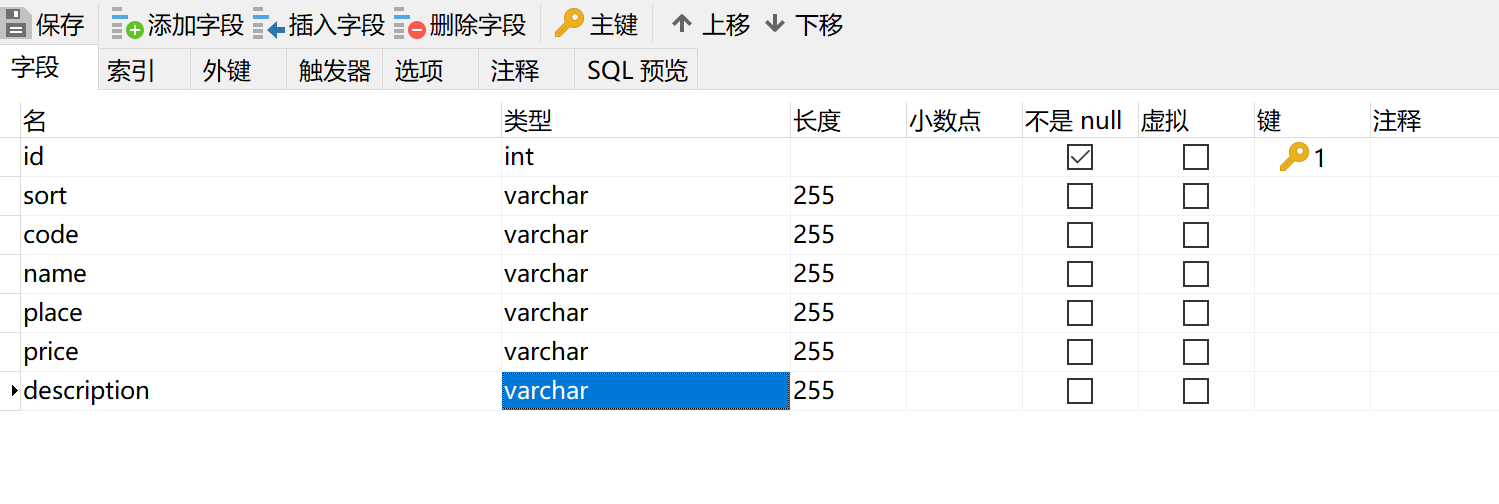
数据库的设计

user表

图形用户界面, 文本, 应用程序, 电子邮件

描述已自动生成

production表



结果：

手机屏幕的截图

描述已自动生成

电脑萤幕的截图

描述已自动生成

电脑萤幕的截图

描述已自动生成

电脑的截图

描述已自动生成

电脑的截图

中度可信度描述已自动生成