基于 SSM 框架的 Soso 移动业务大厅

Java 作业 4-潘巧巧-1613415

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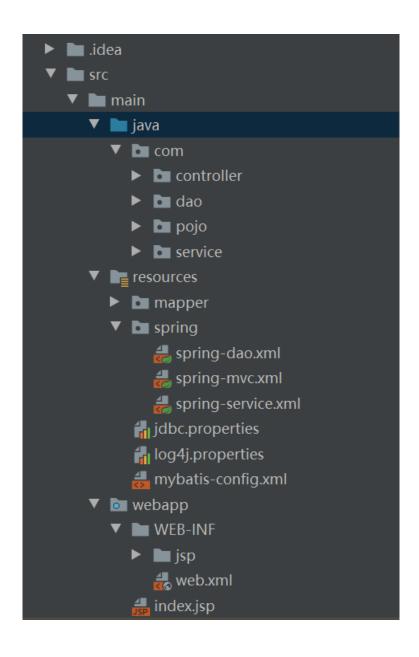
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一、整体基本实现情况

对本学期的 Java 作业 1 的 SOSO 移动大厅进行改进, 基于 SSM、JSP、Maven、Tomcat、MYSQL 等实现。

二、实现详情

1、工程结构图





2、工程结构各部分实现

(1) java

pojo: 存放自定义的 java 类。每个类的属性设为 private,并提供 public 属性的 getter/setter 方法让外界访问。

```
public String getcardNumber() {
   return cardNumber;
public String getuserName() {
public String getpassWord() {
public String getserPackage() {
   return serPackage;
public double getconsumAmount() {
public double getmoney() {
public int getrealTalkTime() {
public int getrealSMSCount() {
   return realSMSCount;
public int getrealFlow() {
public void setcardNumber(String temp) {
   cardNumber = temp;
public void setuserName(String temp) {
   userName = temp;
public void setpassWord(String temp) {
   passWord = temp;
public void setserPackage(String temp) { serPackage = temp; }
public void setconsumAmount(double temp) {
   consumAmount = temp;
public void setmoney(double temp) {
```

```
money = temp;
}
public void setrealTalkTime(int temp) {
    realTalkTime = temp;
}
public void setrealSMSCount(int temp) {
    realSMSCount = temp;
}
public void setrealFlow(int temp) {
    realFlow = temp;
}
```

service: 定义接口,包含系统所提供的功能。此外还会在 service 包下再新建 impl 包。

```
//SosoService.java
package com.service;
import com.pojo.MobileCard;
import java.util.List;

public interface SosoService {
   int userRegister(MobileCard newUser);

   List<MobileCard> queryAllUser();
}
```

```
//SosoServiceInpl.java
package com.service.impl;
import com.dao.SosoDao;
import com.pojo.MobileCard;
import com.service.SosoService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import java.util.List;

@Service
public class SosoServiceImpl implements SosoService {
    @Autowired
    private SosoDao sosoDao;

@Override
    public int userRegister(MobileCard newUser) {
        return sosoDao.userRegister(newUser);
}
```

```
@Override
public List<MobileCard> queryAllUser() {
    return sosoDao.queryAllUser();
}
```

dao: 定义接口, 包含与数据库进行交互的功能。

```
//SosoDao.java
package com.dao;
import com.pojo.MobileCard;
import java.util.List;

public interface SosoDao {
   int userRegister(MobileCard newUser);
   List<MobileCard> queryAllUser();
}
```

controller:控制器,负责接收页面请求,转发和处理。

```
package com.controller;
import com.pojo.MobileCard;
import com.service.SosoService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.RequestMapping;
import javax.servlet.http.HttpServletRequest;
import java.util.List;
@Controller
@RequestMapping("/soso")
public class SosoController {
   @Autowired
   private SosoService sosoService;
   @Autowired
   HttpServletRequest request;
   @RequestMapping("/userRegisterWeb")
   public String userRegisterWeb(MobileCard newUser) {
```

```
@RequestMapping(value = "/userRegister")
   public String userRegister() {
       MobileCard newUser = new MobileCard();
       newUser.setcardNumber(request.getParameter("cardNumber"));
       newUser.setuserName(request.getParameter("userName"));
       newUser.setpassWord(request.getParameter("passWord"));
       newUser.setserPackage(request.getParameter("serPackage"));
newUser.setconsumAmount(Double.valueOf(request.getParameter("consumAmount")
));
       newUser.setmoney(Double.valueOf(request.getParameter("money")));
newUser.setrealTalkTime(Integer.valueOf(request.getParameter("realTalkTime"
)));
newUser.setrealSMSCount(Integer.valueOf(request.getParameter("realSMSCount"
)));
newUser.setrealFlow(Integer.valueOf(request.getParameter("realFlow")));
       sosoService.userRegister(newUser);
   @RequestMapping("/allUserWeb")
   public String allUserWeb(Model model) {
       List<MobileCard> list = sosoService.queryAllUser();
       model.addAttribute("list", list);
```

(2) resource

在 resource 包下有两个文件夹,"mapper" (用于存放 xxxMapper.xml 文件)和"spring" (用于存放 spring-xxx.xml 配置文件)。

jdbc.properties: mysql 数据库配置文件

log4j.properties: 日志输出配置文件

mybatis-config.xml: mybatis 框架配置文件

```
//mapper 文件
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE mapper</pre>
       PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN"
<mapper namespace="com.dao.SosoDao">
    <resultMap type="MobileCard" id="sosoResultMap" >
       <id property="cardNumber" column="CardNumber"/>
       <result property="userName" column="UserName"/>
       <result property="passWord" column="PassWord"/>
       <result property="serPackage" column="SerPackage"/>
       <result property="consumAmount" column="ConsumAmount"/>
       <result property="money" column="Money"/>
       <result property="realTalkTime" column="RealTalkTime"/>
       <result property="realSMSCount" column="RealSMSCount"/>
       <result property="realFlow" column="RealFlow"/>
    </resultMap>
    <insert id="userRegister" parameterType="MobileCard">
       INSERT INTO
MobileCardMYSQL(CardNumber, UserName, PassWord, SerPackage, ConsumAmount, Money,
RealTalkTime, RealSMSCount, RealFlow) VALUE (#{cardNumber},#{userName},
#{passWord}, #{serPackage}, #{consumAmount},#{money}, #{realTalkTime},
#{realSMSCount}, #{realFlow})
   </insert>
   <select id="queryAllUser" resultMap="sosoResultMap">
       SELECT * FROM MobileCardMYSOL
   </select>
</mapper>
```

```
// jdbc.properties
jdbc.driver=com.mysql.jdbc.Driver
jdbc.url=jdbc:mysql://127.0.0.1:3306/soso?useUnicode=true&characterEncoding
=utf8
jdbc.username=root
jdbc.password=root
```

```
// log4j.properties
log4j.rootLogger=ERROR, stdout
log4j.appender.stdout=org.apache.log4j.ConsoleAppender
```

```
log4j.appender.stdout.layout=org.apache.log4j.PatternLayout
log4j.appender.stdout.layout.ConversionPattern=%5p [%t] - %m%n
```

(3) jsp

Web 界面配置

```
height: 38px;
          margin: 20px auto;
          text-align: center;
          line-height: 38px;
          background: deepskyblue;
          border-radius: 4px;
   </style>
</head>
<body>
<div class="container">
   <div class="row clearfix">
       <div class="col-md-12 column">
           <div class="page-header">
              <h1> Soso 移动应用大厅 </h1>
          </div>
       </div>
   </div>
</div>
<br><br><br>>
<h3> <a href="${path }/soso/allUserWeb">用户登录</a> </h3>
<h3> <a href="${path }/soso/userRegisterWeb">用户注册</a> </h3>
<h3> <a href="${path }/paper/addPaper">使用嗖嗖</a> </h3>
<h3> <a href="${path }/paper/updatePaper">话费充值</a> </h3>
<h3> <a href="${path }/paper/allPaper">资费说明</a> </h3>
<h3> <a href="${path }/paper/updatePaper">退出系统</a> </h3>
</body>
</html>
```

```
klink
href="https://cdn.bootcss.com/bootstrap/3.3.7/css/bootstrap.min.css"
rel="stylesheet">
</head>
<body>
<div class="container">
   <div class="row clearfix">
       <div class="col-md-12 column">
           <div class="page-header">
              <h1>Soso 用户注册</h1>
           </div>
       </div>
   </div>
   <form action="">
       手机号: <input type="text" name="cardNumber"><br>
       用户昵称: <input type="text" name="userName"><br>
       密码: <input type="text" name="passWord"><br>
       包类型: <input type="text" name="serPackage"><br>
       消费金额: <input type="text" name="consumAmount"><br>
       余额: <input type="text" name="money"><br>
       实际通话时间: <input type="text" name="realTalkTime"><br>
       实际短信条数: <input type="text" name="realSMSCount"><br>
       实际消费流量: <input type="text" name="realFlow"><br>
       <input type="button" value="添加" onclick="usrRegister()">
       <input type="button" value="返回" onclick="back()">
   </form>
   <script type="text/javascript">
       function usrRegister() {
          var form = document.forms[0];
          form.action = "<%=basePath %>soso/userRegister";
          form.method = "get";
          form.submit();
       function back() {
          var form = document.forms[0];
          form.action = "<%=basePath %>";
          form.submit();
   </script>
</div>
```

```
//二级界面:展示用户列表信息(读数据库)
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<%@ page contentType="text/html;charset=UTF-8" language="java" %>
<% String appPath = request.getContextPath();</pre>
   String basePath = request.getScheme() + "://"
         + request.getServerName() + ":" + request.getServerPort()
        + appPath + "/";
<head>
   <title>Soso 用户列表(读数据库)</title>
   <meta name="viewport" content="width=device-width, initial-scale=1.0"/>
   ≺link
href="https://cdn.bootcss.com/bootstrap/3.3.7/css/bootstrap.min.css"
rel="stylesheet"/>
</head>-->
<body xmlns:c="http://java.sun.com/jsp/jstl/core">
<div class="container">
   <div class="row">
      <div class="col-md-4 column">
         <a class="btn btn-primary" href="<%=basePath %>">返回</a>
      </div>
   </div>
   <div class="row clearfix">
      <div class="col-md-12 column">
         <thead>
            手机号
               用户名
               密码
               服务包
               消费金额
               余额
               实际通话
               实际短信
               实际流量
            </thead>
            <c:forEach var="user" items="${requestScope.get('list')}"</pre>
varStatus="status">
```

```
${user.cardNumber}
              ${user.userName}
              ${user.passWord}
              ${user.serPackage}
              ${user.consumAmount}
              ${user.money}
              ${user.realTalkTime}
              ${user.realSMSCount}
              ${user.realFlow}
                222--%>
                3--%>
                7--%>
                8--%>
           </c:forEach>
         </div>
  </div>
</div>
</body>
```

(4) pom.xml

在此文件中配置项目所需要的 jar 包。

```
<name>first Maven Webapp</name>
 <url>http://maven.apache.org</url>
 cproperties>
   cproject.reporting.outputEncoding>UTF-
8</project.reporting.outputEncoding>
   <spring.version>5.0.3.RELEASE</spring.version>
   <mybatis.version>3.4.4</mybatis.version>
 </properties>
 <dependencies>
   <dependency>
    <groupId>junit
    <artifactId>junit</artifactId>
    <version>3.8.1
    <scope>test</scope>
   </dependency>
   <!-- 第一部分: Spring 配置-->
   <dependency>
     <groupId>org.springframework
    <artifactId>spring-core</artifactId>
     <version>${spring.version}</version>
   </dependency>
   <dependency>
     <groupId>org.springframework
     <artifactId>spring-beans</artifactId>
     <version>${spring.version}</version>
   </dependency>
   <dependency>
     <groupId>org.springframework
     <artifactId>spring-context</artifactId>
     <version>${spring.version}</version>
   </dependency>
   <dependency>
     <groupId>org.springframework
    <artifactId>spring-context-support</artifactId>
     <version>${spring.version}</version>
   </dependency>
   <dependency>
    <groupId>org.springframework
     <artifactId>spring-jdbc</artifactId>
    <version>${spring.version}</version>
```

```
</dependency>
<dependency>
 <groupId>org.springframework
 <artifactId>spring-tx</artifactId>
 <version>${spring.version}</version>
</dependency>
<!-- Spring mvc -->
<dependency>
 <groupId>org.springframework
 <artifactId>spring-web</artifactId>
 <version>${spring.version}</version>
</dependency>
<dependency>
 <groupId>org.springframework
 <artifactId>spring-webmvc</artifactId>
 <version>${spring.version}</version>
</dependency>
<dependency>
 <groupId>org.springframework
 <artifactId>spring-test</artifactId>
 <version>${spring.version}</version>
</dependency>
<!-- 第二部分: Servlet web -->
<dependency>
 <groupId>javax.servlet
 <artifactId>javax.servlet-api</artifactId>
 <version>3.0.1
 <scope>provided</scope>
</dependency>
<dependency>
 <groupId>javax.servlet.jsp</groupId>
 <artifactId>jsp-api</artifactId>
 <version>2.2</version>
 <scope>provided</scope>
</dependency>
<dependency>
 <groupId>javax.servlet
 <artifactId>jstl</artifactId>
 <version>1.2</version>
</dependency>
<dependency>
 <groupId>taglibs
 <artifactId>standard</artifactId>
 <version>1.1.2
```

```
</dependency>
 <dependency>
   <groupId>com.fasterxml.jackson.core
   <artifactId>jackson-databind</artifactId>
   <version>2.9.4
 </dependency>
 <!-- 第三部分: 数据库和 mybatis -->
 <dependency>
   <groupId>mysql
   <artifactId>mysql-connector-java</artifactId>
   <version>5.1.38
 </dependency>
 <dependency>
   <groupId>com.mchange
   <artifactId>c3p0</artifactId>
   <version>0.9.5.2
 </dependency>
 <dependency>
   <groupId>org.mybatis
   <artifactId>mybatis</artifactId>
   <version>${mybatis.version}</version>
 </dependency>
 <!-- mybatis-spring 整合包 -->
 <dependency>
   <groupId>org.mybatis
   <artifactId>mybatis-spring</artifactId>
   <version>1.3.1
 </dependency>
 <dependency>
   <groupId>ch.qos.logback
   <artifactId>logback-classic</artifactId>
   <version>1.1.1
 </dependency>
</dependencies>
<build>
 <finalName>first</finalName>
 <plugins>
   <plugin>
    <groupId>org.apache.maven.plugins
```

(5) spring

spring-dao.xml: (spring-mybatis 整合配置文件)

```
<?xml version="1.0" encoding="UTF-8" ?>
<beans xmlns="http://www.springframework.org/schema/beans"</pre>
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xmlns:context="http://www.springframework.org/schema/context"
      xsi:schemaLocation="http://www.springframework.org/schema/beans
   <!-- 配置整合 mybatis 过程 -->
   <context:property-placeholder location="classpath:jdbc.properties"/>
   <!-- 2.数据库连接池 -->
   <bean id="dataSource"</pre>
class="com.mchange.v2.c3p0.ComboPooledDataSource">
       <!-- 配置连接池属性 -->
       cproperty name="driverClass" value="${jdbc.driver}"/>
       cproperty name="jdbcUrl" value="${jdbc.url}"/>
       cproperty name="user" value="${jdbc.username}"/>
       cproperty name="password" value="${jdbc.password}"/>
       cproperty name="maxPoolSize" value="30"/>
       cproperty name="minPoolSize" value="10"/>
       cproperty name="autoCommitOnClose" value="false"/>
       cproperty name="checkoutTimeout" value="10000"/>
```

```
cproperty name="acquireRetryAttempts" value="2"/>
   </bean>
   <!-- 3.配置 SqlSessionFactory 对象 -->
   <bean id="sqlSessionFactory"</pre>
class="org.mybatis.spring.SqlSessionFactoryBean">
       cproperty name="dataSource" ref="dataSource"/>
       <!-- 配置 MyBaties 全局配置文件:mybatis-config.xml -->
       cproperty name="configLocation" value="classpath:mybatis-
       cproperty name="typeAliasesPackage" value="com.pojo"/>
       <!-- 扫描 sql 配置文件:mapper 需要的 xml 文件 -->
       cproperty name="mapperLocations" value="classpath:mapper/*.xml"/>
   </bean>
   <!-- 4.配置扫描 Dao 接口包, 动态实现 Dao 接口, 注入到 spring 容器中 -->
   <bean class="org.mybatis.spring.mapper.MapperScannerConfigurer">
       <!-- 注入 sqlSessionFactory -->
       roperty name="sqlSessionFactoryBeanName"
value="sqlSessionFactory"/>
       <!-- 给出需要扫描 Dao 接口包 -->
       cproperty name="basePackage" value="com.dao"/>
   </bean>
</beans>
```

Spring-mvc

Spring-service

三、参考资料

https://blog.csdn.net/khxu666/article/details/79851070