SSM整合

目录 Contents

1. SSM框架整合

1.1准备工作

1. 原始方式整合

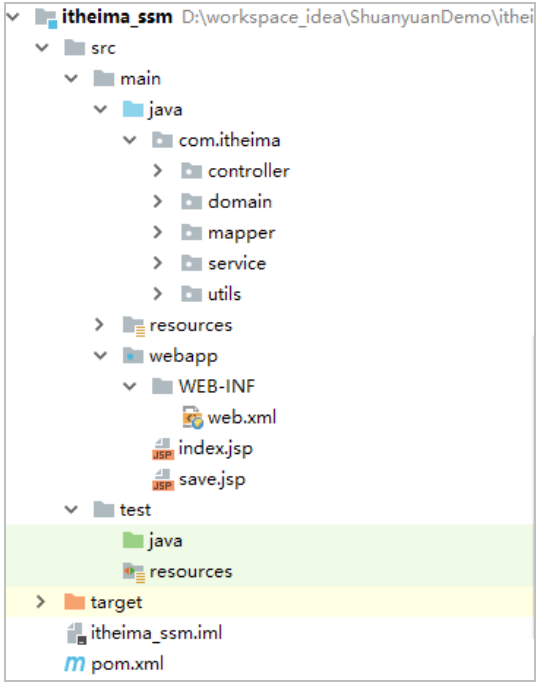
```
create database ssm;
create table account(
    id int primary key auto_increment,
    name varchar(100),
    money double(7,2)
);
```

id	name	money
1	tom	5000
2	lucy	5000

1. SSM框架整合

1.1 原始方式整合

2. 创建Maven工程



1. SSM框架整合

1.1 原始方式整合

3.导入Maven坐标

点击打开坐标内容

1. SSM框架整合

1.1 原始方式整合

4. 编写实体类

```
public class Account {
    private int id;
    private String name;
    private double money;
    //省略getter和setter方法
}
```

1. SSM框架整合

1.1 原始方式整合

5. 编写Mapper接口

```
public interface AccountMapper {
    //保存账户数据
    void save(Account account);
    //查询账户数据
    List<Account> findAll();
}
```

1. SSM框架整合

1.1 原始方式整合

6. 编写Service接口

```
public interface AccountService {
    void save(Account account); //保存账户数据
    List<Account> findAll(); //查询账户数据
}
```

1. SSM框架整合

1.1 原始方式整合

7. 编写Service接口实现

```
@Service("accountService")
public class AccountServiceImpl implements AccountService {
    public void save(Account account) {
        SqlSession sqlSession = MyBatisUtils.openSession();
        AccountMapper accountMapper = sqlSession.getMapper(AccountMapper.class);
        accountMapper.save(account);
        sqlSession.commit();
        sqlSession.close();
    }
    public List<Account> findAll() {
        SqlSession sqlSession = MyBatisUtils.openSession();
        AccountMapper accountMapper = sqlSession.getMapper(AccountMapper.class);
        return accountMapper.findAll();
    }
}
```

1. SSM框架整合

1.1 原始方式整合

8. 编写Controller

```
@Controller
public class AccountController {
    @Autowired
    private AccountService accountService;
    @RequestMapping("/save")
    @ResponseBody
    public String save(Account account){
        accountService.save(account);
        return "save success";
    }
    @RequestMapping("/findAll")
    public ModelAndView findAll(){
        ModelAndView modelAndView = new ModelAndView();
        modelAndView.setViewName("accountList");
        modelAndView.addObject("accountList",accountService.findAll());
        return modelAndView;
    }
}
```

1. SSM框架整合

1.1 原始方式整合

9. 编写添加页面

```
<%@ page contentType="text/html;charset=UTF-8" language="java" %>
<html>
<head>
    <title>Title</title>
</head>
<body>
    <h1>保存账户信息表单</h1>
    <form action="${pageContext.request.contextPath}/save.action" method="post">
        用户名称<input type="text" name="name"><br/>
        账户金额<input type="text" name="money"><br/>
        <input type="submit" value="保存"><br/>
    </form>
</body>
</html>
```

1. SSM框架整合

1.1 原始方式整合

10. 编写列表页面

```
<table border="1">
    <tr>
        <th>账户id</th>
        <th>账户名称</th>
        <th>账户金额</th>
    </tr>
    <c:forEach items="${accountList}" var="account">
        <tr>
            <td>${account.id}</td>
            <td>${account.name}</td>
            <td>${account.money}</td>
        </tr>
    </c:forEach>
</table>
```

1. SSM框架整合

1.1 原始方式整合

11. 编写相应配置文件

- Spring配置文件：applicationContext.xml
- SprngMVC配置文件：spring-mvc.xml
- MyBatis映射文件：AccountMapper.xml
- MyBatis核心文件：sqlMapConfig.xml
- 数据库连接信息文件：jdbc.properties
- Web.xml文件：web.xml
- 日志文件：log4j.xml

1. SSM框架整合

1.1 原始方式整合

12. 测试添加账户

id	name	money
1	tom	5000
2	lucy	5000
4	zhangsan	1000
5	zhangsan11	1000
6	测试数据	10000

1. SSM框架整合

1.1 原始方式整合

13. 测试账户列表

1. SSM框架整合

1.2 Spring整合MyBatis

1. 整合思路

```
SqlSession sqlSession = MyBatisUtils.openSession();
AccountMapper accountMapper = sqlSession.getMapper(AccountMapper.class);
accountMapper.save(account);
sqlSession.commit();
sqlSession.close();
```

将Session工厂交给Spring容器管理，从容器中获得执行操作的Mapper实例即可

将事务的控制交给Spring容器进行声明式事务控制

1.2 Spring整合MyBatis

2. 将SqlSessionFactory配置到Spring容器中

```
<!--加载jdbc.properties-->
<context:property-placeholder location="classpath:jdbc.properties"/>
<!--配置数据源-->
<bean id="dataSource" class="com.mchange.v2.c3p0.ComboPooledDataSource">
    <property name="driverClass" value="${jdbc.driver}"/>
    <property name="jdbcUrl" value="${jdbc.url}"/>
    <property name="user" value="${jdbc.username}"/>
    <property name="password" value="${jdbc.password}"/>
</bean>
<!--配置MyBatis的SqlSessionFactory-->
<bean id="sqlSessionFactory" class="org.mybatis.spring.SqlSessionFactoryBean">
    <property name="dataSource" ref="dataSource"/>
    <property name="configLocation" value="classpath:sqlMapConfig.xml"/>
</bean>
```

1.2 Spring整合MyBatis

3. 扫描Mapper，让Spring容器产生Mapper实现类

```
<!--配置Mapper扫描-->
<bean class="org.mybatis.spring.mapper.MapperScannerConfigurer">
    <property name="basePackage" value="com.itheima.mapper"/>
</bean>
```

1.2 Spring整合MyBatis

4. 配置声明式事务控制

```
<!--配置声明式事务控制-->
<bean id="transacionManager"
class="org.springframework.jdbc.datasource.DataSourceTransactionManager">
    <property name="dataSource" ref="dataSource"/>
</bean>
<tx:advice id="txAdvice" transaction-manager="transacionManager">
    <tx:attributes>
        <tx:method name="*"/>
    </tx:attributes>
</tx:advice>
<aop:config>
    <aop:pointcut id="txPointcut" expression="execution(*
com.itheima.service.impl.*.*(..))"/>
    <aop:advisor advice-ref="txAdvice" pointcut-ref="txPointcut"/>
</aop:config>
```

1.2 Spring整合MyBatis

5.修改Service实现类代码

```
@Service("accountService")
public class AccountServiceImpl implements AccountService {

    @Autowired
    private AccountMapper accountMapper;

    public void save(Account account) {
        accountMapper.save(account);
    }
    public List<Account> findAll() {
        return accountMapper.findAll();
    }
}
```

传智播客旗下高端IT教育品牌