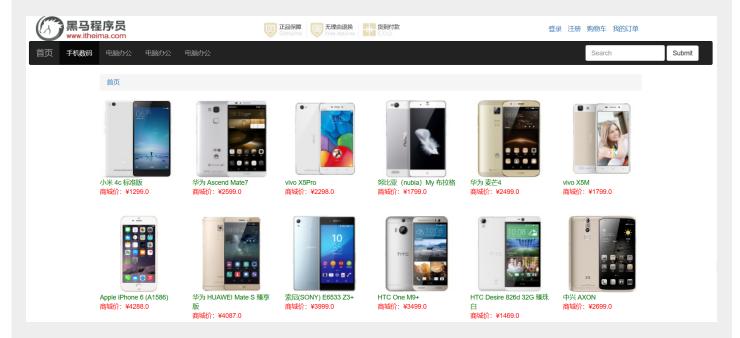
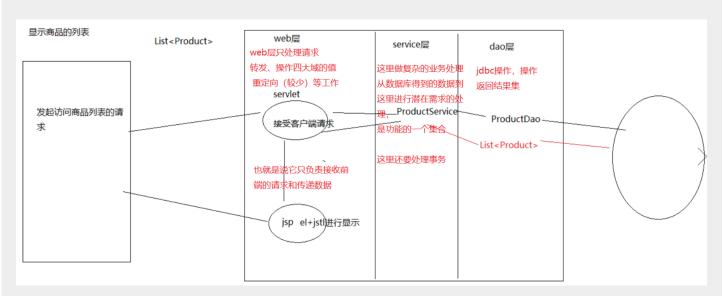
用EL和JSTL显示商品信息



一、案例图解



二、环境搭建

1. 先导入包:操作数据库的mysql驱动包、c3p0连接池包、DBUtils包、JSTL相关的包(两个,jstl.jar和standard.jar)

```
        ≥ c3p0-0.9.1.2.jar
        ≥ commons-dbutils-1.4.jar
        ≥ jstl.jar
        ⇒ mysql-connector-java-5.0.4-bin.jar
        ≥ standard.jar
```

2. 导入c3p0配置文件到src目录下

3. 建包web包、service包、dao包、domain包、dbutils包,web包处理请求,建立servlet;service包建立类,处理业务;dao包建立类,执行sql语句;domain包封装实体类;dbutils包封装数据库操作(此包每时每刻都要用基本)。

```
✓ ♣ src
→ ♣ cn.itheima.dao
→ ♣ cn.itheima.domain
→ ♠ cn.itheima.service
→ ♣ cn.itheima.utils
→ ♣ cn.itheima.web
▲ c3p0-config.xml
```

三、代码详解

3.1 web层

```
public class ProductListServlet extends HttpServlet {
16
17•
       protected void doGet(HttpServletRequest request, HttpServletResponse response)
18
               throws ServletException, IOException {
19
20
21
           ProductService service=new ProductService();
22
           List<Product> productList=null;
23
           try {
              productList =service.findAllProduct(); 1,
24
25
           } catch (SQLException e) {
26
               e.printStackTrace();
27
28
29
           request.setAttribute("productList", productList);
30
           request.getRequestDispatcher("/product_list.jsp") forward(request, response)
31
32
33
34e
       protected void doPost(HttpServletRequest request, HttpServletResponse response)
35
               throws ServletException, IOException {
36
37
           doGet(request, response);
38
       }
39
```

3.2 service层

```
package cn.itheima.service;
2
   import java.sql.SQLException;
 30
8
9
   public class ProductService {
10
       public List<Product> findAllProduct() throws SQLException {
11•
12
           ProductDao dao=new ProductDao();
13
14
           List<Product> productList=dao.findAllProduct();
15
           return productList:
16
       }
17
18
```

3.3 dao层

```
public class ProductDao {

public List<Product> findAllProduct() throws SQLException {

// 操作数程序
QueryRunner runner=new QueryRunner(DataSourceUtils.getDataSource());
String sql="select * from product":
List<Product> productList = runner.query(sql, new BeanListHandler<Product>(Product.class));
return productList;
}

就是简单的执行sql语句罢了,这里用到了jdbc、DBUtils、
连接池、JavaBean等技术,在javaSE中都学过,勿忘之
```

3.4 jsp页面显示代码改写

找到每个商品显示的div代码,用JSTL代码替代,以显示动态资源

```
<%@taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
   <%@ page import="java.util.*" %>
   <%@ page import="cn.itheima.domain.*" %>
     <c:forEach items="${productList}" var="product">
        460
47
                width="170" height="170" style="display: inline-block;">
             </a>
50c
              >
                <a href="product_info.html" style='color: green'>${product.pname}</a>
              530
                <font color="#FF0000">商城价: &yen; ${product['shop_price']}</font>
             </div>
56
```

注意写路径的时候最好在前面加上\${pageContext.request.contextPath}

四、注意

运行时是访问web层的servlet以间接访问显示商品的那个jsp页面