

# 乐字节教育高级架构课程

正所谓“授人以鱼不如授人以渔”，你们想要的 **Java 学习资料** 来啦！

不管你是学生，还是已经步入职场的同行，希望你们都要珍惜眼前的学习机会，奋斗没有终点，知识永不过时。

扫描下方二维码即可领取



乐字节晓啡



乐字节官方交流群



## 商品分类-列表页

### 分析页面结构

页面三级之间并无直接关系，而是由html、css页面样式实现了分级样式。

页面结构三个普通tr，不同等级的tr缩进值（左边距）不同。

```
第一级<td align="left" style="padding-left:5em"></td>
第二级<td align="left" style="padding-left:10em"></td>
第三级<td align="left" style="padding-left:15em"></td>
```

后台只需要获取每一级的商品列表内容返回页面循环处理展示即可

### 后台代码实现

#### shop-manager-pojo添加VO对象

GoodsCategoryVo.java

```
package com.xxxx.manager.vo;

import java.io.Serializable;
import java.util.List;

/**
 * @author zhoubin
 * @since 1.0.0
 */
public class GoodsCategoryVo implements Serializable {

    /**
     *商品下级分类列表
     */
    private List<GoodsCategoryVo> children;

    /**
     * 商品分类id
     */
    private Short id;

    /**
     * 商品分类名称
     */
    private String name;

    /**
     * 手机端显示的商品分类名
     */
    private String mobileName;
```

```
/**
 * 父id
 */
private Short parentId;

/**
 * 家族图谱
 */
private String parentIdPath;

/**
 * 等级
 */
private Byte level;

/**
 * 顺序排序
 */
private Byte sortOrder;

/**
 * 是否显示
 */
private Byte isShow;

/**
 * 分类图片
 */
private String image;

/**
 * 是否推荐为热门分类
 */
private Byte isHot;

/**
 * 分类分组默认0
 */
private Byte catGroup;

/**
 * 分佣比例
 */
private Byte commissionRate;

/**
 * t_goods_category
 */
private static final long serialVersionUID = 1L;

public List<GoodsCategoryVo> getChildren() {
    return children;
}
```

```
}

public void setChildren(List<GoodsCategoryVo> children) {
    this.children = children;
}

public Short getId() {
    return id;
}

public void setId(Short id) {
    this.id = id;
}

public String getName() {
    return name;
}

public void setName(String name) {
    this.name = name == null ? null : name.trim();
}

public String getMobileName() {
    return mobileName;
}

public void setMobileName(String mobileName) {
    this.mobileName = mobileName == null ? null : mobileName.trim();
}

public Short getParentId() {
    return parentId;
}

public void setParentId(Short parentId) {
    this.parentId = parentId;
}

public String getParentIdPath() {
    return parentIdPath;
}

public void setParentIdPath(String parentIdPath) {
    this.parentIdPath = parentIdPath == null ? null : parentIdPath.trim();
}

public Byte getLevel() {
    return level;
}

public void setLevel(Byte level) {
    this.level = level;
}
```

```
public Byte getSortOrder() {
    return sortOrder;
}

public void setSortOrder(Byte sortOrder) {
    this.sortOrder = sortOrder;
}

public Byte getIsShow() {
    return isShow;
}

public void setIsShow(Byte isShow) {
    this.isShow = isShow;
}

public String getImage() {
    return image;
}

public void setImage(String image) {
    this.image = image == null ? null : image.trim();
}

public Byte getIsHot() {
    return isHot;
}

public void setIsHot(Byte isHot) {
    this.isHot = isHot;
}

public Byte getCatGroup() {
    return catGroup;
}

public void setCatGroup(Byte catGroup) {
    this.catGroup = catGroup;
}

public Byte getCommissionRate() {
    return commissionRate;
}

public void setCommissionRate(Byte commissionRate) {
    this.commissionRate = commissionRate;
}

@Override
public String toString() {
    StringBuilder sb = new StringBuilder();
    sb.append(getClass().getSimpleName());
}
```

```

        sb.append(" [");
        sb.append("Hash = ").append(hashCode());
        sb.append(", id=").append(id);
        sb.append(", name=").append(name);
        sb.append(", mobileName=").append(mobileName);
        sb.append(", parentId=").append(parentId);
        sb.append(", parentIdPath=").append(parentIdPath);
        sb.append(", level=").append(level);
        sb.append(", sortOrder=").append(sortOrder);
        sb.append(", isShow=").append(isShow);
        sb.append(", image=").append(image);
        sb.append(", isHot=").append(isHot);
        sb.append(", catGroup=").append(catGroup);
        sb.append(", commissionRate=").append(commissionRate);
        sb.append("]");
        return sb.toString();
    }
}

```

## Service服务层

GoodsCategoryService.java

```

/**
 * 商品分类-列表
 * @return
 */
List<GoodsCategoryVo> selectCategoryListForView();

```

GoodsCategoryServiceImpl.java

```

/**
 * 商品分类-列表
 * @return
 */
@Override
public List<GoodsCategoryVo> selectCategoryListForView() {
    //创建查询对象
    GoodsCategoryExample example = new GoodsCategoryExample();
    //where条件 parentId=0 and level = 1
    example.createCriteria().andParentIdEqualTo((short) 0).andLevelEqualTo((byte) 1);
    //查询一级分类
    List<GoodsCategory> gcList01 = goodsCategoryMapper.selectByExample(example);
    //处理一级分类查询下级分类
    List<GoodsCategoryVo> gcvList01 = new ArrayList<>();
    for (GoodsCategory gc01 : gcList01) {
        //将GoodsCategory对象转成GoodsCategoryVo对象
        GoodsCategoryVo gcv01 = new GoodsCategoryVo();
        BeanUtils.copyProperties(gc01, gcv01);
    }
    //清空查询对象
    example.clear();
    //设置查询参数
}

```

```

example.createCriteria().andParentIdEqualTo(gcv01.getId()).andLevelEqualTo((byte) 2);
//查询二级分类
List<GoodsCategory> gcList02 = goodsCategoryMapper.selectByExample(example);
//处理二级分类查询下级分类
List<GoodsCategoryVo> gcvList02 = new ArrayList<>();
for (GoodsCategoryVo gc02 : gcvList02) {
    //将GoodsCategory对象转成GoodsCategoryVo对象
    GoodsCategoryVo gcv02 = new GoodsCategoryVo();
    BeanUtils.copyProperties(gc02,gcv02);
    // 清空查询对象
    example.clear();
    //设置查询参数
    example.createCriteria().andParentIdEqualTo(gcv02.getId()).andLevelEqualTo((byte)
3);

    //查询三级分类
    List<GoodsCategory> gcList03 = goodsCategoryMapper.selectByExample(example);
    // 处理三级分类添加至二级二级分类vo对象
    List<GoodsCategoryVo> gcvList03 = new ArrayList<>();
    for (GoodsCategory gc03 : gcList03) {
        //将GoodsCategory对象转成GoodsCategoryVo对象
        GoodsCategoryVo gcv03 = new GoodsCategoryVo();
        BeanUtils.copyProperties(gc03,gcv03);
        //将对象添加至三级分类vo对象List
        gcvList03.add(gcv03);
    }
    // 将三级分类List添加至二级分类
    gcv02.setChildren(gcvList03);
    // 讲对象添加至二级分类vo对象List
    gcvList02.add(gcv02);
}
// 将二级分类List添加至一级分类
gcv01.setChildren(gcvList02);
// 将对象添加至一级分类vo对象List
gcvList01.add(gcv01);
}

//=====JDK8新特性=====
//创建查询对象
// GoodsCategoryExample example = new GoodsCategoryExample();
// //查询所有的商品分类list
// List<GoodsCategory> list = goodsCategoryMapper.selectByExample(example);
// //将List<GoodsCategory>转成List<GoodsCategoryVo>
// List<GoodsCategoryVo> gcvList = list.stream().map(e -> {
//     GoodsCategoryVo gcv = new GoodsCategoryVo();
//     BeanUtils.copyProperties(e, gcv);
//     return gcv;
// }).collect(Collectors.toList());
// /**
// * 将List<GoodsCategoryVo>转成Map<parentId,List<GoodsCategoryVo>>
// * 按parentId分组, key为parentId, value为parentId对应的List
// */
// Map<Short, List<GoodsCategoryVo>> map =
//     gcvList.stream().collect(Collectors.groupingBy(GoodsCategoryVo::getParentId));

```

```
// /**
// * 循环, 将childrenList赋值
// */
// gcvList.forEach(e -> e.setChildrenList(map.get(e.getId())));
// /**
// * 拦截器, 返回Level为1的List, 也就是顶级分类
// */
// List<GoodsCategoryVo> gcvList01 = gcvList.stream().filter(e -> 1 ==
e.getLevel()).collect(Collectors.toList
// ());
//=====JDK8新特性=====

return gcvList01;
}
```

## Service服务层的测试类

GoodsCategoryServiceITest.java

```
package com.xxxx.manager;

import com.xxxx.manager.service.GoodsCategoryService;
import com.xxxx.manager.vo.GoodsCategoryVo;
import org.junit.jupiter.api.Test;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.test.context.SpringBootTest;

import java.util.List;

/**
 * 商品分类服务测试类
 *
 * @author zhoubin
 * @since 1.0.0
 */
@SpringBootTest(classes = ManagerApplication.class)
public class GoodsCategoryServiceTest {

    @Autowired
    private GoodsCategoryService goodsCategoryService;

    @Test
    public void testSelectCategoryListForView(){
        List<GoodsCategoryVo> gcvList = goodsCategoryService.selectCategoryListForView();
        System.out.println(gcvList);
    }
}
```

## Controller控制层

GoodsController.java





```
/**
 * 商品分类-列表-页面跳转
 *
 * @return
 */
@RequestMapping("category/list")
public String categoryList(Model model) {
    List<GoodsCategoryVo> gcvList = goodsCategoryService.selectCategoryListForView();
    model.addAttribute("gcvList",gcvList);
    return "goods/category/category-list";
}
```

## ftl页面

category-list.ftl 的 `<div class="box-body"></div>` 中的所有内容

```
<div class="box-body">
    <div class="row">
        <div class="col-sm-12">
            <table id="list-table" class="table table-bordered table-striped dataTable"
role="grid"
                aria-describedby="example1_info">
                <thead>
                <tr role="row">
                    <th valign="middle">分类ID</th>
                    <th valign="middle">分类名称</th>
                    <th valign="middle">手机显示名称</th>
                    <th valign="middle">是否推荐</th>
                    <th valign="middle">是否显示</th>
                    <th valign="middle">分组</th>
                    <th valign="middle">排序</th>
                    <th valign="middle">操作</th>
                </tr>
                </thead>
                <tbody>
                <#list gcvList as gcv01>
                    <tr role="row" align="center" class="1" id="1_1">
                        <td>${gcv01.id}</td>
                        <td align="left" style="padding-left:5em">
                            <span class="glyphicon glyphicon-plus btn-warning"
                                style="padding:2px; font-size:12px;" id="icon_1_1" aria-
hidden="false"
                                onclick="rowClicked(this)"></span>&nbsp; <span>${gcv01.name}</span>
                        </td>
                        <td><span>${gcv01.mobileName}</span></td>
                        <td>
                            
                        </td>
                    </tr>
                </tbody>
            </table>
        </div>
    </div>
</div>
```

```

        
    </td>
    <td>
        <input type="text"

onchange="updateSort('goods_category','id','1','cat_group',this)"
        onkeyup="this.value=this.value.replace(/[\d]/g, '')"
        onpaste="this.value=this.value.replace(/[\d]/g, '')"

size="4"

        value="{gcv01.catGroup}" class="input-sm"/>
    </td>
    <td>
        <input type="text"

onchange="updateSort('goods_category','id','1','sort_order',this)"
        onkeyup="this.value=this.value.replace(/[\d]/g, '')"
        onpaste="this.value=this.value.replace(/[\d]/g, '')"

size="4"

        value="{gcv01.sortOrder}" class="input-sm"/>
    </td>
    <td>
        <a class="btn btn-primary" href="商品分类-编辑.html"><i class="fa
fa-pencil"></i></a>
        <a class="btn btn-danger"

href="javascript:del_fun('/index/Admin/Goods/delGoodsCategory/id/1');"><i
class="fa fa-trash-o"></i></a>
    </td>
</tr>
<#list gcv01.children as gcv02>
    <tr role="row" align="center" class="2" id="2_12"
style="display:none">
        <td>{gcv02.id}</td>
        <td align="left" style="padding-left:10em">
            <span class="glyphicon glyphicon-plus btn-warning"
                style="padding:2px; font-size:12px;" id="icon_2_12"
                aria-hidden="false" onclick="rowClicked(this)"></span>&nbsp;
            <span>{gcv02.name}</span>
        </td>
        <td><span>{gcv02.mobileName}</span></td>
        <td>
            
        </td>
        <td>
            
        </td>
        <td>

```

```

        <input type="text"

onchange="updateSort('goods_category','id','12','cat_group',this)"
        onkeyup="this.value=this.value.replace(/[\^d]/g, '')"
        onpaste="this.value=this.value.replace(/[\^d]/g, '')"

size="4"

        value="{gcv02.catGroup}" class="input-sm"/>
    </td>
    <td>
        <input type="text"

onchange="updateSort('goods_category','id','12','sort_order',this)"
        onkeyup="this.value=this.value.replace(/[\^d]/g, '')"
        onpaste="this.value=this.value.replace(/[\^d]/g, '')"

size="4"

        value="{gcv02.sortOrder}" class="input-sm"/>
    </td>
    <td>
        <a class="btn btn-primary"
            href="/index/Admin/Goods/addEditCategory/id/12"><i
                class="fa fa-pencil"></i></a>
        <a class="btn btn-danger"

href="javascript:del_fun('/index/Admin/Goods/delGoodsCategory/id/12');"><i
            class="fa fa-trash-o"></i></a>

    </td>
</tr>
<#list gcv02.children as gcv03>
    <tr role="row" align="center" class="3" id="3_100"
style="display:none">
        <td>{gcv03.id}</td>
        <td align="left" style="padding-left:15em">
            <span>{gcv03.name}</span>
        </td>
        <td><span>{gcv03.mobileName}</span></td>
        <td>
            
        </td>
        <td>
            
        </td>
        <td>
            <input type="text"

onchange="updateSort('goods_category','id','100','cat_group',this)"

onkeyup="this.value=this.value.replace(/[\^d]/g, '')"

```

```

onpaste="this.value=this.value.replace(/[\d]/g, '')" size="4"
                                value="{gcv03.catGroup}" class="input-sm"/>
                                </td>
                                <td>
                                    <input type="text"

onchange="updateSort('goods_category','id','100','sort_order',this)"

onkeyup="this.value=this.value.replace(/[\d]/g, '')"

onpaste="this.value=this.value.replace(/[\d]/g, '')" size="4"
                                value="{gcv03.sortOrder}" class="input-sm"/>
                                </td>
                                <td>
                                    <a class="btn btn-primary"
href="/index/Admin/Goods/addEditCategory/id/100"><i
                                class="fa fa-pencil"></i></a>
                                    <a class="btn btn-danger"

href="javascript:del_fun('/index/Admin/Goods/delGoodsCategory/id/100');"><i
                                class="fa fa-trash-o"></i></a>
                                </td>
                            </tr>
                        </#list>
                    </#list>
                </#list>
            </tbody>
        </table>
    </div>
</div>
<div class="row">
    <div class="col-sm-5">
        <div class="dataTables_info" id="example1_info" role="status" aria-
live="polite">分页
        </div>
    </div>
</div>
</div>

```

