# BaseAction

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 类名  Class name | BaseAction | 包名  Package name | | com.grq.controller.action |
| 引用导入  Import file |  | | | |
| 继承 extends |  | 实现 implements | |  |
| 属性变量  Attribute variable | # pageNo = 1:int  # pageSize =6:int  # categoryDao:ProductCategoryDao  +sf INDEX:String  +sf MAIN:String | | +sf MANAGE:String  +sf ADD:String  +sf LIST:String  +sf EDIT:String  +sf SELECT:String | |
| 说明remark |  | | | |
| 类方法（流程图）Class method（process diagram）  // 处理方法  + execute():String  + index():String  + main():String  + manage():String  + add():String  + list():String  + edit():String  + select():String  // getter和settter方法  + getXxx/setXxx  ( id | pageNo | pageSize) | | | | |

# SharkAction

|  |  |  |  |
| --- | --- | --- | --- |
| 类名  Class name | SharkAction | 包名  Package name | com.grq.controller.action.shark |
| 引用导入  Import file |  | | |
| 继承 extends | BaseAction | 实现 implements |  |
| 属性变量  Attribute variable |  | | |
| 说明remark |  | | |
| 类方法（流程图）Class method（process diagram）  + gdial():String  + gpanel():String  + grule():String | | | |

# SnakeAction

|  |  |  |  |
| --- | --- | --- | --- |
| 类名  Class name | SnakeAction | 包名  Package name | com.grq.controller.action.snake |
| 引用导入  Import file |  | | |
| 继承 extends | BaseAction | 实现 implements |  |
| 属性变量  Attribute variable |  | | |
| 说明remark |  | | |
| 类方法（流程图）Class method（process diagram） | | | |

# InvestAction

|  |  |  |  |
| --- | --- | --- | --- |
| 类名  Class name | InvestAction | 包名  Package name | com.grq.controller.action.invest |
| 引用导入  Import file |  | | |
| 继承 extends | BaseAction | 实现 implements |  |
| 属性变量  Attribute variable |  | | |
| 说明remark |  | | |
| 类方法（流程图）Class method（process diagram）  + ranking():String  + sales():String | | | |

# PriceAction

|  |  |  |  |
| --- | --- | --- | --- |
| 类名  Class name | PriceAction | 包名  Package name | com.grq.controller.action.price |
| 引用导入  Import file |  | | |
| 继承 extends | BaseAction | 实现 implements |  |
| 属性变量  Attribute variable |  | | |
| 说明remark |  | | |
| 类方法（流程图）Class method（process diagram） | | | |

# PrepareAction

|  |  |  |  |
| --- | --- | --- | --- |
| 类名  Class name | PrepareAction | 包名  Package name | com.grq.controller.action.prepare |
| 引用导入  Import file |  | | |
| 继承 extends | BaseAction | 实现 implements |  |
| 属性变量  Attribute variable |  | | |
| 说明remark |  | | |
| 类方法（流程图）Class method（process diagram） | | | |

# BocaiAction

|  |  |  |  |
| --- | --- | --- | --- |
| 类名  Class name | BocaiAction | 包名  Package name | com.grq.controller.action.bocai |
| 引用导入  Import file |  | | |
| 继承 extends | BaseAction | 实现 implements |  |
| 属性变量  Attribute variable |  | | |
| 说明remark |  | | |
| 类方法（流程图）Class method（process diagram）  + aboutbc():String  + joinbc():String | | | |

# ManageAction

|  |  |  |  |
| --- | --- | --- | --- |
| 类名  Class name | ManageAction | 包名  Package name | com.grq.controller.action.manage |
| 引用导入  Import file |  | | |
| 继承 extends | BaseAction | 实现 implements |  |
| 属性变量  Attribute variable |  | | |
| 说明remark |  | | |
| 类方法（流程图）Class method（process diagram）  + sidebar():String | | | |

# UserAction

|  |  |  |  |
| --- | --- | --- | --- |
| 类名  Class name | UserAction | 包名  Package name | com.grq.controller.action.manage |
| 引用导入  Import file |  | | |
| 继承 extends | BaseAction | 实现 implements |  |
| 属性变量  Attribute variable |  | | |
| 说明remark |  | | |
| 类方法（流程图）Class method（process diagram）  + usilverbuy():String  + usilversell():String  + uinquiryaccount():String  + uinquirysilverrecord():String  + uinquirygame():String  + uinvest():String  + uinvestrecord():String  + ugiro():String  + ugirorecord():String  + uprofile():String  + upassquestion():String  + ubankcard():String  + umaster():String  + uapprentice():String  + cart():String  + order():String | | | |

# AdminAction

|  |  |  |  |
| --- | --- | --- | --- |
| 类名  Class name | AdminAction | 包名  Package name | com.grq.controller.action.manage |
| 引用导入  Import file |  | | |
| 继承 extends | BaseAction | 实现 implements |  |
| 属性变量  Attribute variable |  | | |
| 说明remark |  | | |
| 类方法（流程图）Class method（process diagram）  + webserver():String  + webdatabase():String  + webotherinformation():String  + adminuser():String  + playeruser():String  + assetgiro():String  + assetsilver():String  + assetinvest():String  + operatesales():String  + operateoption():String | | | |

# ProductCategoryAction

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 类名  Class name | ProductCategoryAction | 包名  Package name | | com.grq.controller.action.product |
| 引用导入  Import file | org.springframework.context.annotation.Scope;  org.springframework.stereotype.Controller;  com.grq.controller.action.BaseAction; | | com.grq.model.PageModel;  com.grq.model.pojo.product.ProductCategory;  com.opensymphony.xwork2.ModelDriven; | |
| 继承 extends | BaseAction | 实现 implements | | ModelDriven<ProductCategory> |
| 属性变量  Attribute variable | * category = new ProductCategory():ProductCategory * pid:Integer * pageModel:PageModel<ProductCategory> | | | |
| 说明remark |  | | | |
| 类方法（流程图）Class method（process diagram）  + getModel():ProductCategory  // 处理方法  + add():string  + save():string  + list():string  + edit():string  + del():string  // getter和settter方法  + getXxx/setXxx  ( pageModel | pid | category ) | | | | |

# ProductAction

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 类名  Class name | ProductAction | 包名  Package name | | com.grq.controller.action.product |
| 引用导入  Import file | java.io.File;  java.io.FileInputStream;  java.io.FileOutputStream;  java.util.HashMap;  java.util.LinkedHashMap;  java.util.List;  java.util.Map;  java.util.Set;  org.apache.struts2.ServletActionContext;  org.springframework.context.annotation.Scope;  org.springframework.stereotype.Controller; | | com.grq.controller.action.BaseAction;  com.grq.model.PageModel;  com.grq.model.pojo.product.ProductCategory;  com.grq.model.pojo.product.ProductInfo;  com.grq.model.pojo.product.UploadFile;  com.grq.model.util.StringUtil;  com.opensymphony.xwork2.ModelDriven; | |
| 继承 extends | BaseAction | 实现 implements | | ModelDriven<ProductCategory> |
| 属性变量  Attribute variable | * product = new ProductInfo() : ProductInfo * file : File * map : Map<Integer,String> * pageModel : PageModel<ProductInfo>   image : Map<String,String> | | | |
| 说明remark |  | | | |
| 类方法（流程图）Class method（process diagram）  // 处理方法  // getter和settter方法  + getXxx/setXxx  (product | file | map | pageModel | image) | | | | |

# PageModel<T>

|  |  |  |  |
| --- | --- | --- | --- |
| 类名  Class name | PageModel<T> | 包名  Package name | com.grq.model |
| 引用导入  Import file | java.util.List; | | |
| 继承 extends |  | 实现 implements |  |
| 属性变量  Attribute variable | - totalRecords:int  - list:List<T>  - pageNo:int  - pageSize:int | | |
| 说明remark |  | | |
| 类方法（流程图）Class method（process diagram）  // 处理方法  + getTopPageNo():int  + getPreviousPageNo():int  + getNextPageNo():int  + getBottomPageNo():int  + getTotalPages():int  // getter和settter方法  + getXxx/setXxx  (totalRecords | list | pageNo | pageSize) | | | |

# Sex <<enum>>

|  |  |  |  |
| --- | --- | --- | --- |
| 类名  Class name | Sex <<enum>> | 包名  Package name | com.grq.model.customizeenum |
| 引用导入  Import file | java.util.ArrayList;  java.util.List; | | |
| 继承 extends |  | 实现 implements |  |
| 属性变量  Attribute variable | BOY{…},GIRL{…},ALL{…}; | | |
| 说明remark |  | | |
| 类方法（流程图）Class method（process diagram）  +A getName():String  +S getValues():List<String> | | | |

# ProductCategory

|  |  |  |  |
| --- | --- | --- | --- |
| 类名  Class name | ProductCategory | 包名  Package name | com.grq.model.pojo.product |
| 引用导入  Import file | java.io.Serializable;  java.util.Set;  java.util.TreeSet; | | |
| 继承 extends |  | 实现 implements | Serializable |
| 属性变量  Attribute variable | * id:Integer * name:String * level = 1:int * children: Set<ProductCategory> * parent:ProductCategory * products = new TreeSet<ProductInfo>():Set<ProductInfo> | | |
| 说明remark |  | | |
| 类方法（流程图）Class method（process diagram）  //构造体（Constructors）  +C ProductCategory()  +C ProductCategory( String, int, Set, ProductCategory, Set)  // getter和settter方法  + getXxx/setXxx  (id | name | level | children | parent | products) | | | |

# ProductCategory<<hbm>>

|  |  |  |  |
| --- | --- | --- | --- |
| 类名  Class name | ProductCategory<<hbm>> | 包名  Package name | com.grq.model.pojo.product |
| 引用导入  Import file |  | | |
| 继承 extends |  | 实现 implements |  |
| 属性变量  Attribute variable | I id  P name  P level  < products   * parent   < children | | |
| 说明remark |  | | |
| 类方法（流程图）Class method（process diagram） | | | |

# ProductInfo

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 类名  Class name | ProductInfo | 包名  Package name | | com.grq.model.pojo.product |
| 引用导入  Import file | java.io.Serializable;  java.util.Date;  com.grq.model.customizeenum.Sex; | | | |
| 继承 extends |  | 实现 implements | | Serializable |
| 属性变量  Attribute variable | * id: Integer * name:String * description:String * createTime = new Date():Date * baseprice:Float * marketprice:Float * sellprice:Float | | * sexrequest:Sex * commend = false:Boolean * clickcount = 1:Integer * sellCount = 0: Integer * category:ProductCategory | |
| 说明remark |  | | | |
| 类方法（流程图）Class method（process diagram）  //构造体（Constructors）  +C ProductInfo()  +C ProductInfo( String, String, Date, Float……)  // getter和settter方法  + getXxx/setXxx  (id | name | description | createTime | baseprice……) | | | | |

# ProductInfo<<hbm>>

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 类名  Class name | ProductInfo<<hbm>> | 包名  Package name | | com.grq.model.pojo.product |
| 引用导入  Import file |  | | | |
| 继承 extends |  | 实现 implements | |  |
| 属性变量  Attribute variable | I id  P name  P description  P createTime  P baseprice  P marketprice  P sellprice | | P sexrequest (SexType)  P commend  P clickcount  P sellCount  > category  > uploadFile | |
| 说明remark |  | | | |
| 类方法（流程图）Class method（process diagram） | | | | |

# UploadFile

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 类名  Class name | UploadFile | 包名  Package name | | com.grq.model.pojo.product |
| 引用导入  Import file |  | | | |
| 继承 extends |  | 实现 implements | |  |
| 属性变量  Attribute variable | * id : Integer * path : String | |  | |
| 说明remark |  | | | |
| 类方法（流程图）Class method（process diagram）  //构造体（Constructors）  // getter和settter方法  + getXxx/setXxx  (id | path) | | | | |

# UploadFile <<hbm>>

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 类名  Class name | UploadFile <<hbm>> | 包名  Package name | | com.grq.model.pojo.product |
| 引用导入  Import file |  | | | |
| 继承 extends |  | 实现 implements | |  |
| 属性变量  Attribute variable | I id  P path | |  | |
| 说明remark |  | | | |
| 类方法（流程图）Class method（process diagram） | | | | |

# BaseDao<T> <<interface>>

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 类名  Class name | BaseDao<T> <<interface>> | 包名  Package name | | com.grq.model.dao |
| 引用导入  Import file | java.io.Serializable;  java.util.Map;  com.grq.model.PageModel | | | |
| 继承 extends |  | 实现 implements | |  |
| 属性变量  Attribute variable |  | |  | |
| 说明remark |  | | | |
| 类方法（流程图）Class method（process diagram） | | | | |

# DaoSupport<T>

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 类名  Class name | DaoSupport<T> | 包名  Package name | | com.grq.model.dao |
| 引用导入  Import file | java.io.Serializable;  java.sql.SQLException;  java.util.List;  java.util.Map;  org.hibernate.HibernateException;  org.hibernate.Query;  org.hibernate.Session;  org.springframework.beans.factory.annotation.Autowired;  org.springframework.orm.hibernate3.HibernateCallback;  org.springframework.orm.hibernate3.HibernateTemplate;  org.springframework.orm.hibernate3.SessionFactoryUtils;  org.springframework.transaction.annotation.Propagation;  org.springframework.transaction.annotation.Transactional;  com.lyq.model.PageModel;  com.lyq.util.GenericsUtils; | | | |
| 继承 extends |  | 实现 implements | | BaseDao<T> |
| 属性变量  Attribute variable |  | |  | |
| 说明remark |  | | | |
| 类方法（流程图）Class method（process diagram） | | | | |

# ProductCategoryDao <<interface>>

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 类名  Class name | ProductCategoryDao <<interface>> | 包名  Package name | | com.grq.model.dao.product |
| 引用导入  Import file | com.grq.model.dao.BaseDao;  com.grq.model.pojo.product.ProductCategory; | | | |
| 继承 extends | BaseDao<ProductCategory> | 实现 implements | |  |
| 属性变量  Attribute variable |  | |  | |
| 说明remark |  | | | |
| 类方法（流程图）Class method（process diagram） | | | | |

# ProductCategoryDaoImpl

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 类名  Class name | ProductCategoryDaoImpl | 包名  Package name | | com.grq.model.dao.product |
| 引用导入  Import file | org.springframework.stereotype.Repository;  com.grq.model.dao.DaoSupport;  com.grq.model.pojo.product.ProductCategory; | | | |
| 继承 extends | DaoSupport<ProductCategory> | 实现 implements | | ProductCategoryDao |
| 属性变量  Attribute variable |  | |  | |
| 说明remark | @Repository("productCategoryDao") | | | |
| 类方法（流程图）Class method（process diagram） | | | | |

# ProductDao <<interface>>

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 类名  Class name | ProductDao <<interface>> | 包名  Package name | | com.grq.model.dao.product |
| 引用导入  Import file | java.util.List;  com.grq.model.dao.BaseDao;  com.grq.model.pojo.product.ProductInfo; | | | |
| 继承 extends | BaseDao<ProductInfo> | 实现 implements | |  |
| 属性变量  Attribute variable |  | |  | |
| 说明remark |  | | | |
| 类方法（流程图）Class method（process diagram）  // 处理方法  + findCommend():List<ProductInfo>  + findClickcount():List<ProductInfo>  + findSellCount():List<ProductInfo> | | | | |

# ProductDaoImpl

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 类名  Class name | ProductDaoImpl | 包名  Package name | | com.grq.model.dao.product |
| 引用导入  Import file | java.util.HashMap;  java.util.List;  java.util.Map;  org.springframework.stereotype.Repository;  org.springframework.transaction.annotation.Propagation;  org.springframework.transaction.annotation.Transactional;  com.grq.model.dao.DaoSupport;  com.grq.model.PageModel;  com.grq.model.pojo.product.ProductInfo; | | | |
| 继承 extends | BaseDao<ProductInfo> | 实现 implements | | ProductDao |
| 属性变量  Attribute variable |  | |  | |
| 说明remark | @Repository("productDao")  @Transactional | | | |
| 类方法（流程图）Class method（process diagram）  // 处理方法  + findCommend():List<ProductInfo>  + findClickcount():List<ProductInfo>  + findSellCount():List<ProductInfo> | | | | |

# UploadFileDao <<interface>>

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 类名  Class name | UploadFileDao <<interface>> | 包名  Package name | | com.grq.model.dao.product |
| 引用导入  Import file | com.grq.model.dao.BaseDao;  com.grq.model.pojo.product.UploadFile; | | | |
| 继承 extends | BaseDao<UploadFile> | 实现 implements | |  |
| 属性变量  Attribute variable |  | |  | |
| 说明remark |  | | | |
| 类方法（流程图）Class method（process diagram） | | | | |

# UploadFileDaoImpl

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 类名  Class name | UploadFileDaoImpl | 包名  Package name | | com.grq.model.dao.product |
| 引用导入  Import file | org.springframework.stereotype.Repository;  com.grq.model.dao.DaoSupport;  com.grq.model.pojo.product.UploadFile; | | | |
| 继承 extends | BaseDao<UploadFile> | 实现 implements | | UploadFileDao |
| 属性变量  Attribute variable |  | |  | |
| 说明remark | @Repository("uploadFileDao") | | | |
| 类方法（流程图）Class method（process diagram）  // 处理方法 | | | | |

# GenericsUtils

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 类名  Class name | GenericsUtils | 包名  Package name | | com.grq.model.util |
| 引用导入  Import file | java.lang.reflect.ParameterizedType;  java.lang.reflect.Type; | | | |
| 继承 extends |  | 实现 implements | |  |
| 属性变量  Attribute variable |  | |  | |
| 说明remark | 泛型工具类 | | | |
| 类方法（流程图）Class method（process diagram）  +S getGenericType(Class):Class  +S getGenericName(Class):string | | | | |

# StringUtil

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 类名  Class name | StringUtil | 包名  Package name | | com.grq.model.util |
| 引用导入  Import file | java.text.SimpleDateFormat;  java.util.Date;  java.util.Random; | | | |
| 继承 extends |  | 实现 implements | |  |
| 属性变量  Attribute variable | +S random:Random | |  | |
| 说明remark | 字符串工具类 | | | |
| 类方法（流程图）Class method（process diagram）  +S getStringTime():String  +S createOrderId():String  +S validateString(String):boolean  +S validateFloat(Float):boolean | | | | |

# SexConversion

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 类名  Class name | SexConversion | 包名  Package name | | com.grq.model.util.conversion |
| 引用导入  Import file | java.util.Map;  org.apache.struts2.util.StrutsTypeConverter;  com.grq.model.customizeenum.Sex; | | | |
| 继承 extends | StrutsTypeConverter | 实现 implements | |  |
| 属性变量  Attribute variable |  | |  | |
| 说明remark | 性别类型转换器 | | | |
| 类方法（流程图）Class method（process diagram）  + convertFromString(Map, String[], Class):Object  + convertToString(Map, Object):String | | | | |

# EnumType<T>

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 类名  Class name | EnumType<T> | 包名  Package name | | com.grq.model.util.hibernate |
| 引用导入  Import file | java.io.Serializable;  java.sql.PreparedStatement;  java.sql.ResultSet;  java.sql.SQLException;  java.sql.Types;  org.hibernate.HibernateException;  org.hibernate.usertype.UserType; | | | |
| 继承 extends | <T extends Enum<T>> | 实现 implements | | UserType |
| 属性变量  Attribute variable | -SF SQL\_TYPES = { Types.VARCHAR } : int[]  - clazz = null : Class<T> | |  | |
| 说明remark | 自定义Hibernate映射枚举类型 | | | |
| 类方法（流程图）Class method（process diagram）  //构造体（Constructors）  +C EnumType(Class<T>)  // 重写的处理方法  + assemble(Serializable,Object)：Object  + deepCopy(Object)：Object  + disassemble(Object)：Serializable  + equals(Object, Object)：boolean  + hashCode(Object)：int  + isMutable()：boolean  + nullSafeGet(ResultSet, String[], Object)：Object  + nullSafeSet(PreparedStatement, Object, int)：void  + replace(Object, Object, Object)：Object  + returnedClass()：Class<T>  + sqlTypes()：int[] | | | | |

# SexType

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 类名  Class name | SexType | 包名  Package name | | com.grq.model.util.hibernate |
| 引用导入  Import file | com.grq.model.customizeenum.Sex; | | | |
| 继承 extends | EnumType<Sex> | 实现 implements | |  |
| 属性变量  Attribute variable |  | |  | |
| 说明remark | 性别类型 | | | |
| 类方法（流程图）Class method（process diagram）  //构造体（Constructors）  +C SexType() | | | | |

# Qq