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| **0. 导言**  0.1 目的  本文档主要针对快乐买网上商城系统的总体设计提出要求，同时它还将作为该产品详细设计与开发的重要参考依据。  0.2 范围  本文档包含以下几部分：  1.概述  2.规格说明分析  3.系统体系结构  4.界面设计定义  5.接口定义  6.模块设计  7.数据库设计  8.故障检测和处理机制  0.3 本文档的预期读者  1.设计人员  2.开发人员  3.项目管理人员  4.测试人员  0.4 术语定义   |  |  | | --- | --- | | **缩写、术语及符号** | **解 释** | | E-R图 | 逻辑关系图 | | SSH | Struts,Spring,Hibernate框架 | | 界面流 | 界面访问流程 |   0.5 引用标准  [1]《企业文档格式标准》V1.1 ，XXX软件有限公司  [2]《概要设计格式标准》V1.1 ，XXX软件有限公司软件工程过程化组织  0.6 参考资料  [1]《实战Struts》，Ted Husted，机械工业出版社。  [2]《软件重构》，清华大学出版社。  0.7 版本更新信息  记录文档版本修改的过程，具体版本更新记录如下表所示：   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **修改编号** | **修改日期** | **修改后版本** | **修改位置** | **修改内容概述** | | SHOE\_01 | 2015-2-3 | V1.0 | 全部 | 初始发布版本 | |  |  |  |  |  |   **1. 概述**  本产品是一套标准的B2C电子商城系统，符合市场电子商务规范。本产品遵循《计算机软件保护条例》的各项规定。建立在互联网标准通信协议之上，其中支持TCP/IP协议， 系统采用B/S结构，满足多个用户通过浏览器访问网站信息及购买商品。同时系统通过JAVA异常处理机制，事务处理机制来应对系统出现的错误，另外通过记录日志的方式来记录访问过程及出现的问题。  **2. 系统分析**  本系统可以实现用户访问网站前台浏览和购买商品，管理员访问网站后台管理商品，用户及订单信息。  游客可以浏览商品，查看商品信息，但不能添加商品到购物车，不能定制商品和秒杀商品。  游客注册为会员后可以进行购物车管理，定制商品，秒杀商品，订单管理，个人信息管理等一系列权限。在购物车中允许修改某单个商品购买数量，允许删除商品或清空购物车，允许继续购物和结算。定制商品是根据用户特定需求来定制鞋子的样式，定制商品不经过购物车。秒杀商品是商家推出一些特价商品，这些特价商品只在一定时期内有效，用户在有效时间内可以通过抢时间进行秒杀商品，因为秒杀商品的特殊性，系统规定秒杀成功后的商品不允许取消订单。用户可以根据用户ID查看下单成功的订单，发货途中的订单，取消的订单，退货的订单，交易成功的订单等。用户对个人信息可以修改基本信息，登录账号信息，收货地址信息等。  系统后台管理员登录系统后台后，可以对系统基本信息进行管理，比如商品管理，企宣管理，评价管理，订单管理，积分管理，用户管理，管理员账号管理，交易报表管理，站内信息管理。其中商品管理是对鞋子品牌、类型、鞋子具体信息进行管理；订单管理是对客户的订单进行查看，发货，处理退货等。用户管理是对注册用户的信息进行维护。管理员账号管理针对后台系统管理员进行增删及权限管理。  **3. 系统体系结构**  根据选用的软件、硬件以及网络环境构造系统的整体框架，划分系统模块，并对系统内各模块之间的关系进行定义。确定已定义的对象以及其组件在系统内如何传输、通信。如果本系统是用户最终投入使用的系统的一个子集，或是将要使用现有的一些其他相关系统，在此应对它们各自的功能和相互之间的关系给予具体的描述。  本产品采用B/S三层结构的体系结构，如下图所示    针对B/S三层结构，本产品采用目前比较流行的SSH整合体系结构框架，如下图所示    **4. 界面设计定义**  4.1 前台界面流  4.1 后台台界面流  **5. 接口定义**  （1）人机交互接口  人机交互接口应确定用户采用浏览器同系统交互，包括键盘录入、鼠标操作、Excel文件输入，按照有效数据格式输入。主界面使用iframe框架，头部页面和尾部页面采用独立页面，方便网站统一风格和统一信息修改。  （2）网络接口，主要是服务器和网络拓扑图，如下所示：    （3）系统与外部接口  主要包括Excel文件导入导出，采用POI接口规范。图片上传采用commons-io和commons-fileupload规范。  （4）系统内模块之间的接口  本系统采用SSH框架实现，其系统模块接口实现如下    （5）数据库接口  数据库接口采用Hibernate框架访问数据库，并采用C3P0作为连接池。  **6. 模块设计**  6.1系统前台功能结构图    6.2系统后台功能结构图    **7. 数据库设计**  7.1 数据库管理系统选型  本系统使用MySql5.6作为数据信息管理数据库，安装在服务器端，客户端通过浏览器发送请求给T omcat服务器，Tomcat服务器接收到请求再访问数据库做相应的CRUD操作。  MySQL 是一个关系型数据库管理系统，由瑞典 MySQL AB 公司开发，目前属于 Oracle 公司。MySQL 最流行的关系型数据库管理系统，在 WEB 应用方面 MySQL 是最好的 RDBMS (Relational Database Management System，关系数据库管理系统) 应用软件之一。MySQL 是一种关联数据库管理系统，关联数据库将数据保存在不同的表中，而不是将所有数据放在一个大仓库内，这样就增加了速度并提高了灵活性。MySQL 所使用的 SQL 语言是用于访问数据库的最常用标准化语言。MySQL 软件采用了双授权政策（本词条“授权政策”），它分为社区版和商业版，由于其体积小、速度快、总体拥有成本低，尤其是开放源码这一特点，一般中小型网站的开发都选择 MySQL 作为网站数据库。  面向会员的客户端系统数据流程图如图所示。    面向管理员的系统数据流程图如图所示    7.2 概念结构设计（E-R图）  1.用户实体    2.鞋子实体    3.订单实体    4. 管理员实体    5.广告实体    7.3 逻辑结构设计  C:\Documents and Settings\CETC\桌面\项目文档\QQ截图20110906090755.jpg  依据逻辑关系图，本系统表结构如下  表1： users 用户  用户表主要用于保存系统用户的资料。   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 字段名 | 数据类型 | 能否为空 | 是否主键 | 默认值 | 描述 | | uid | int(11) | No | Yes | NULL | 用户 ID | | uaccount | varchar(50) | No |  | NULL | 用户账号 | | uname | varchar(50) | No |  | NULL | 用户姓名 | | utel | varchar(50) | No |  | NULL | 用户电话 | | ugender | bool | No |  | NULL | 用户密码 | | upwd | varchar(50) | No |  | NULL | 用户密码 | | uemail | varchar(50) | No |  | NULL | 电子邮箱 | | uregtime | date | yes |  | NULL | 注册日期 | | uintegral | Float | Yse |  | NULL | 用户积分 | | uinfo | text | Yes |  | NULL | 个人简介 | | upwdask | varchar(50) | Yes |  | NULL | 密保问题 | | upwdans | varchar(50) | Yes |  | NULL | 密保答案 |   表2：brands 品牌  品牌表主要用于保存鞋类商品所涉及的品牌。   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 字段名 | 数据类型 | 能否否为空 | 是否主键 | 默认值 | 描述 | | bid | integer | No | Yes |  | 品牌 ID | | bname | varchar(50) | No |  | NULL | 品牌名称 | | Bsex | Varchar(10) | no |  | 男 | 男鞋、女鞋 | | bstate | integer | no |  | 0 | 是否上线品牌 |   表3：types 类型  类型表主要保存鞋类商品的款式类型信息。   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 字段名 | 数据类型 | 能否否为空 | 是否主键 | 默认值 | 描述 | | tid | integer | No | Yes |  | 类型 ID | | tname | varchar(50) | No |  | NULL | 类型名称 |   表4：shoes 鞋子  鞋表主要用于保存所经营鞋类商品的商品信息。   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 字段名 | 数据类型 | 能否否为空 | 是否主键 | 默认值 | 描述 | | sid | integer | No | Yes |  | 鞋子 ID | | tid | integer | No |  | NULL | 类ID  type表外键 | | bid | integer | No |  | NULL | 品牌ID  Brands表外键 | | snum | varchar(50) | Yes |  | NULL | 鞋子编号 | | sname | varchar(50) | No |  | NULL | 鞋子名称 | | Sprices | float | No |  | NULL | 鞋子价格 | | sdiscount | float | No |  | NULL | 鞋库存量 | | spubtime | date | No |  | NULL | 上市时间 | | sproducer | Varchar(50) | Yes |  | NULL | 生产厂商 | | sgender | bool | No |  | NULL | 性别属性 | | scolor | varchar(50) | No |  | NULL | 鞋子颜色 | | sinfo | text | Yes |  | NULL | 内容简介 | | stimessold | integer | No |  | NULL | 卖出次数 | | simage | varchar(50) | Yes |  | NULL | 鞋子图片url | | sdetail | varchar(50) | Yes |  | NULL | 鞋子详细  信息URL | | sintegral | Float | Yes |  |  | 单件鞋总积分 |   表5：receives 用户收货地址  用户收货地址主要保存用户配置的物流地址信息。   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 字段名 | 数据类型 | 能否否为空 | 是否主键 | 默认值 | 描述 | | recid | Integer | No | Yes |  | 收货地址ID | | uid | integer | No |  | NULL | 用户 ID  User表  外键 | | recprovince | varchar(50) | No |  | NULL | 收货省份 | | reccity | varchar(50) | No |  | NULL | 收货城市 | | recdistrict | varchar(50) | No |  | NULL | 收货地区 | | recstreet | varchar(50) | No |  | NULL | 收货街道 | | rectel | varchar(50) | No |  | NULL | 收货电话 | | recpostcode | integer | No |  | NULL | 邮政编码 | | recmobile | varchar(50) | No |  | NULL | 收货手机 | | recisdefault | integer | No |  | NULL | 是否默认 | | recreceiver | varchar(50) | Yes |  | NULL | 收货人 |   表6：orders 订单  订单表主要用于保存用户购买过程中生成的订单信息。   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 字段名 | 数据类型 | 能否否为空 | 是否主键 | 默认值 | 描述 | | oid | integer | No | Yes |  | 订单 ID | | uid | integer | No |  | NULL | 用户 ID  User表外键 | | recid | integer | No |  | NULL | 收获地址ID  Receives表外键 | | onum | varchar(50) | No |  | NULL | 订单编号 | | ostate | integer | No |  | NULL | 订单状态 | | ordertime | date | No |  | NULL | 下单时间 | | ototal | float | No |  | NULL | 总 价 | | oexpinfo | varchar(50) | No |  | NULL | 快递跟踪 | | onote | text | No |  | NULL | 备 注 | | ointegral | varchar(50) | No |  | NULL | 收货电话 |   表7：order\_shoes 订单鞋子尺寸  订单鞋子尺寸表主要用于保存订单内鞋类商品及其相关信息。   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 字段名 | 数据类型 | 能否否为空 | 是否主键 | 默认值 | 描述 | | osid | integer | No | Yse |  | 主键ID | | oid | integer | No |  | NULL | 订单 ID  Order表外键 | | sid | integer | No |  | NULL | 鞋子 ID  Shoe表外键 | | ossize | float | No |  | NULL | 鞋子大小 | | osstate | integer | No |  | NULL | 鞋子样式 | | osnum | integer | No |  | NULL | 鞋子数量 |   表8：shoe\_comment 鞋子评论  鞋子评论表主要用于保存鞋类商品所对应的评价信息。   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 字段名 | 数据类型 | 能否否为空 | 是否主键 | 默认值 | 描述 | | cid | integer |  | yes |  | 主键 ID | | uid | integer | No |  | NULL | 用户 ID  User表外键 | | sid | integer | No |  | NULL | 鞋子 ID  Shoe表外键 | | sccomment | text | No |  | NULL | 评论内容 | | scscore | integer | No |  | NULL | 用户评分 | | sctime | Date | No |  | NULL | 评分时间 | | scoid | integer | yes |  | NULL | 从属订单号 |   表9：shoe\_photos 鞋子图片  鞋子图片表主要用于保存用于展示的鞋类商品的图片。   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 字段名 | 数据类型 | 能否否为空 | 是否主键 | 默认值 | 描述 | | spid | integer | No | Yes |  | 图片 ID | | sid | integer | No | Yes | NULL | 鞋子 ID  Shoe表外键 | | spurl | varchar(200) | No |  | NULL | 图片 URL |   表10：sizes 尺码  尺码表主要保存鞋类商品的尺码信息。   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 字段名 | 数据类型 | 能否否为空 | 是否主键 | 默认值 | 描述 | | sizeid | integer | No | Yes |  | 尺寸 ID | | sizenum | float | No |  | NULL | 尺寸大小 |   表11：shoesizes 鞋子尺寸  鞋子尺寸表主要保存鞋类商品和尺寸的对应信息。   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 字段名 | 数据类型 | 能否否为空 | 是否主键 | 默认值 | 描述 | | ssid | integer | No | Yes |  | 尺寸 ID | | sid | integer | No |  | NULL | 鞋子 ID  Shoe表外键 | | sizeid | Integer | No |  | NULL | 尺码 ID  Sizes表外键 | | sstate | integer |  |  | NULL | 尺寸状态 | | Scount | Integer | NO |  | NULL | 鞋子数量 |   表12：friend\_links 友情链接  友情链接表主要用于保存合作商户的资料信息。   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 字段名 | 数据类型 | 能否否为空 | 是否主键 | 默认值 | 描述 | | flid | integer | No | Yes |  | 链接 ID | | flname | varchar(50) | No |  | NULL | 链接名称 | | flurl | varchar(100) | No |  | NULL | 链接URL | | flimage | varchar(100) | No |  | NULL | 链接图片 |   表13：ads 广告  广告表主要用于保存企宣广告信息。   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 字段名 | 数据类型 | 能否否为空 | 是否主键 | 默认值 | 描述 | | adid | integer | No | Yes |  | 广告 ID | | adcompany | varchar(50) | No |  | NULL | 广告公司 | | adimage | varchar(50) | No |  | NULL | 广告图片 | | adlink | varchar(50) | No |  | NULL | 公司链接 | | adtimes | date | No |  | NULL | 到期时间 | | adincome | float | No |  | NULL | 广告收入 |   表14：spcify\_shoes 定制鞋  定制鞋表主要保存我们的特色活动个性定制的鞋品。   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 字段名 | 数据类型 | 能否否为空 | 是否主键 | 默认值 | 描述 | | spsid | integer | No | Yes |  | 定制鞋 ID | | tid | integer | No |  | NULL | 类型 ID  Type表外键 | | bid | integer | No |  | NULL | 品牌 ID  Brands表外键 | | spsseq | varchar(50) | No |  | NULL | 鞋子编号 | | spsname | varchar(50) | No |  | NULL | 鞋子名称 | | spsprices | Float | No |  | NULL | 鞋子价格 | | spscontent | Text | No |  | NULL | 详细信息 | | spspartnum | Integer | No |  | NULL | 部件数量 | | spspartinfo | varchar(50) | No |  | NULL | 部件信息 | | spsgender | bool | No |  | NULL | 鞋子性别 | | spscss | Integer | Yes |  | NULL | 定制CSS |   表15： spcify\_results 用户定制结果  用户定制结果主要保存用户完成个性定制以后的各个参数。   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 字段名 | 数据类型 | 能否否为空 | 是否主键 | 默认值 | 描述 | | sprid | integer | No | Yes |  | 定制结果ID | | spsid | integer | No |  | NULL | 定制型号ID  Spcify\_show表外键 | | oid | integer | No |  | NULL | 订单 ID  Order表外键 | | sprscheme | varchar(50) | No |  | NULL | 定制方案 | | sprsize | float | No |  | NULL | 结果尺寸 | | sprnum | integer | No |  | NULL | 结果数量 |   表16：sps\_sizes 定制鞋尺寸  定制鞋尺寸表主要保存定制鞋的尺寸信息。   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 字段名 | 数据类型 | 能否否为空 | 是否主键 | 默认值 | 描述 | | spssid | Integer | No | Yes |  | 定制尺寸ID | | spsid | Integer | No |  | NULL | 定制ID  spcify\_shoes表外键 | | sizeid | Integer | No |  | NULL | 尺寸ID  Sizes表外键 | | spsstate | Integer | No |  | NULL | 尺寸状态 |   表17：second\_kills 秒杀商品  秒杀商品表主要保存参与秒杀活动的商品信息。   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 字段名 | 数据类型 | 能否否为空 | 是否主键 | 默认值 | 描述 | | skid | Integer | No | Yes |  | 主键ID | | sid | integer | No |  | NULL | 鞋子ID  Shoes表外键 | | skintegral | Float | No |  | 0 | 消耗积分 | | skamount | Int | No |  | 0 | 秒杀数量 | | skstarttime | Date | No |  | NULL | 秒杀开始时间 | | skduratoin | Date | No |  | NULL | 秒杀持续时间 | | skisvalid | integer | No |  | 0 | 秒杀是否过期 | | sksize | integer | No |  | NULL | 秒杀尺码 |   表18：shoes\_inquirys 商品咨询  商品资讯表主要保存关于商品问答的交互信息。   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 字段名 | 数据类型 | 能否否为空 | 是否主键 | 默认值 | 描述 | | sqid | Integer | No | Yes |  | 主键ID | | uid | integer | No |  | NULL | 用户ID  Users 表外键 | | sid | integer | No |  | NULL | 鞋子ID  Shoes表外键 | | sqquestion | Text | No |  | NULL | 用户资讯问题 | | sqanswer | Text | No |  | NULL | 客服回复答案 | | sqquestiontime | Date | No |  | NULL | 用户提问时间 | | sqanswertime | Date | No |  | NULL | 客服回复时间 |   表19：permission 权限表  权限表主要保存权限类型   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 字段名 | 数据类型 | 能否否为空 | 是否主键 | 默认值 | 描述 | | perid | integer | No | Yes |  | 权限ID | | pername | varchar(45) | No |  |  | 权限名称 | | percont | varchar(50) |  |  | NULL | 权限内容 | | peremarks | text |  |  | NULL | 权限说明 |   表20：percontent 权限详情  权限详情表主要保存各权限角色具体包含哪些权限   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 字段名 | 数据类型 | 能否否为空 | 是否主键 | 默认值 | 描述 | | pcid | integer | No | Yes |  | 权限详情ID | | pc\_perid | integer | No |  |  | 权限编号，permission外键 | | pcitems | varchar(45) | No |  |  | 具体权限 | | pcmenu | varchar(45) | No |  |  | 具体权限菜单页面 | | pcurl | varchar(60) |  |  | NULL | 具体权限首页地址 | | pctnt | varchar(45) |  |  | NULL | 说明 | | pcremarks | text |  |  | NULL | 备注 |   表21：admins 管理员  管理员表主要保存系统管理账户。   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 字段名 | 数据类型 | 能否否为空 | 是否主键 | 默认值 | 描述 | | aid | integer | No | Yes |  | 管理员ID | | acount | varchar(50) | No |  |  | 管理员账户 | | apwd | varchar(50) | No |  |  | 管理员密码 | | a\_pcid | int | No |  |  | 管理员权限permission外键 | | aremarks | text |  |  | NULL | 备注 |   **8. 故障检测和处理机制**  8.1 故障检测机制  系统发生故障采用log4j记录日志，将故障写入错误文件  8.2 故障处理机制  系统在业务层采用声明式事务处理，通过事务处理管理异常。 |