

**<<Project name>>**

**Software Design Document**

– Hanoi, August 2019 –

**Table of Contents**

[I. Overview 3](#_Toc69802609)

[1. Code Packages 3](#_Toc69802610)

[2. Database Schema 3](#_Toc69802611)

[II. Code Designs 4](#_Toc69802612)

[1. <Feature/Function Name1> 4](#_Toc69802613)

[a. Class Diagram 4](#_Toc69802614)

[b. Class Specifications 4](#_Toc69802615)

[c. Sequence Diagram(s) 4](#_Toc69802616)

[d. Database queries 5](#_Toc69802617)

[2. <Feature/Function Name2> 5](#_Toc69802618)

[III. Database Tables 5](#_Toc69802619)

[1. <Table name 1> 5](#_Toc69802620)

[2. <Table name 2…> 5](#_Toc69802621)

# I. Overview

## 1. Code Packages/Namespaces

Diagram

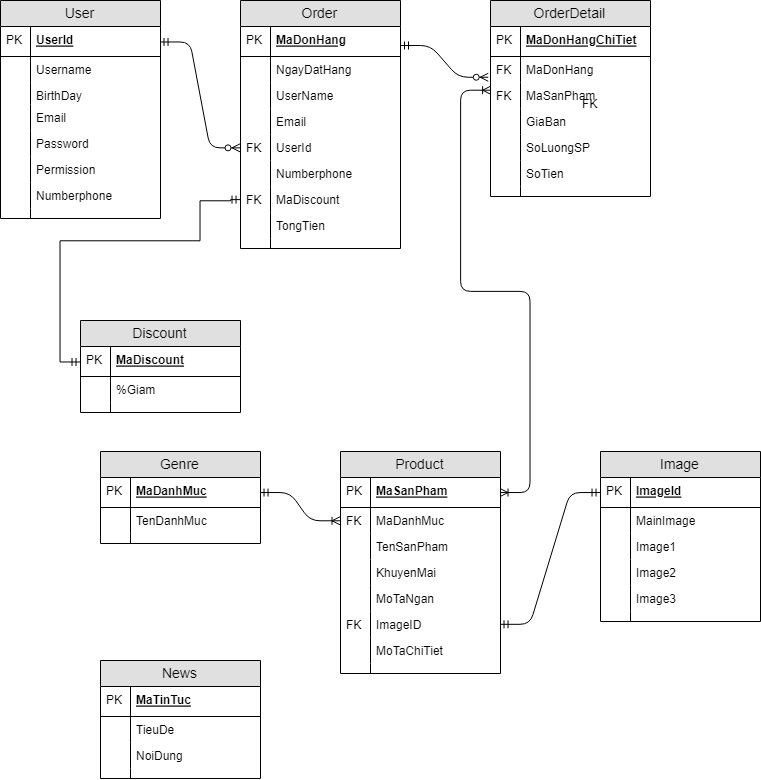
Description automatically generated

***Package descriptions & package class naming conventions***

|  |  |  |
| --- | --- | --- |
| **No** | **Package** | **Description** |
| *01* | *View* | *Web view for admin, host, user, guess* |
| *02* | *Controller* | *Controller of admin, host, user, website* |
| *03* | *DAO* | *List shose* |
| *04* | *Filter* | *Sort for admin, host, user* |
| *05* | *Ultils* | *Database sql* |
| *06* | *Model* | *ProductID, ProductName, ProductQuanity, ProductDescription, Rating, ProductPrice, BrandID, Size,....* |

## 2. Database Schema

*[Provide the tables relationship like example below – following MySQL database naming convention]*



***Table descriptions & package class naming conventions are as below***

|  |  |  |
| --- | --- | --- |
| **No** | **Table** | **Description** |
| *01* | *User* | *Save information about users.*  *UserID, UserName, Password, Email,Permission,Numberphone,BirthDay.*  *- Primary keys: UserID.*  *- Foreign keys: Roles.* |
| *02* | *Order* | *Save Invoice and Time of user's last payment, Including Total Amount. New Address and Phone Number and Email can be added.*  *MaDonHang,NgayDatHang,UserName,Email,UserId,NumberPhone,*  *MaDiscount,TongTien.*  *- Primary keys: MaDonHang.*  *- Foreign keys: UserID, MaDiscount.* |
| *03* | *OrderDetail* | *Report the price corresponding to the quantity of each product that the user buys*  *MaDonHangChiTiet, MaDonHang, MaSanPham, GiaBan, SoLuongSP, SoTien.*  *- Primary keys: MaDonHangChiTiet.*  *- Foreign keys: MaDonHang, MaSanPham.* |
| *04* | *Image* | *Show pictures on home page and when buyers want to see details.*  *MainImage, Image1, Image2, Image3.*  *- Primary keys: MainImage.*  *- Foreign keys: Non.* |
| *05* | *Discount* | *Each discount code after being used will be deleted, the bill will be reduced corresponding to each code*  *MaDiscount, %Giam.*  *- Primary keys: MaDiscount.*  *- Foreign keys: Non.* |
| *06* | *Genre* | *Show game genres*  *MaDanhMuc, TenDanhMuc.*  *- Primary keys: MaDanhMuc.*  *- Foreign keys: Non.* |
| *07* | *News* | *Admin will update news articles for the sales page*  *MaTinTuc, TieuDe, NoiDung.*  *- Primary keys: Non.*  *- Foreign keys: Non.* |
| *08* | *Product* | *Products are clearly shown*  *MaSanPham, MaDanhMuc, TenSanPham, KhuyenMai, MoTaNgan, ImageID, MoTaChiTiet.*  *- Primary keys: MaSanPham.*  *- Foreign keys: MaDanhMuc, MoTaChiTiet.* |

# II. Code Designs

## 1. <Feature/Function Name1>

*[Provide the detailed design for the function <Feature/Function Name1>. It include Class Diagram, Class Specifications, and Sequence Diagram(s)]*

### a. Class Diagram

*[This part presents the class diagram for the relevant feature]*



### b. Class Specifications

*[Provide the description for each class and the methods in each class, following the table format as below]*

#### XYZ Class

*[Provide the detailed description for the class methods]*

|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *<method name>* | *<Description of the method, including the inputs, outputs & internal method processing>* |
|  |  |  |

#### ABC Class

***Class Methods***

*[Provide the detailed description for the class methods]*

|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *<method name>* | *<Description of the method, including the inputs, outputs & internal method processing>* |
|  |  |  |

### c. Sequence Diagram(s)

*[Provide the sequence diagram(s) for the feature, see the sample below]*



### d. Database queries

*[Provide the detailed SQL (select, insert, update...) which are used in implementing the function/screen]*

## 2. <Feature/Function Name2>

…

# III. Database Tables

## 1. <Table name 1>

*[Give some lines about the table here>>*

*[Table fields, in the form of table format as below]*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **#** | **Field name** | **Type** | **Size** | **Unique** | **Not Null** | **PK/FK** | **Notes** |
| 1 | Field name1 |  |  |  |  |  |  |
| 2 | Field name2 |  |  |  |  |  |  |

## 2. <Table name 2…>