HANOI UNIVERSITY SCIENCE AND TECHNOLOGY

VIỆN CÔNG NGHỆ THÔNG TIN VÀ TRUYỀN THÔNG

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ĐỒ ÁN

**TỐT NGHIỆP ĐẠI HỌC**

INFORMATION TECHNOLOGY

WEBSITE ECOMMERCE

Student : **Nguyễn Đăng Thìn**

Teacher’s Guide : **PhD** **Nguyễn Bá Ngọc**

Ha Noi , 1 September – 2018

**PHIẾU GIAO NHIỆM VỤ ĐỒ ÁN TỐT NGHIỆP**

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Class : LTU12B

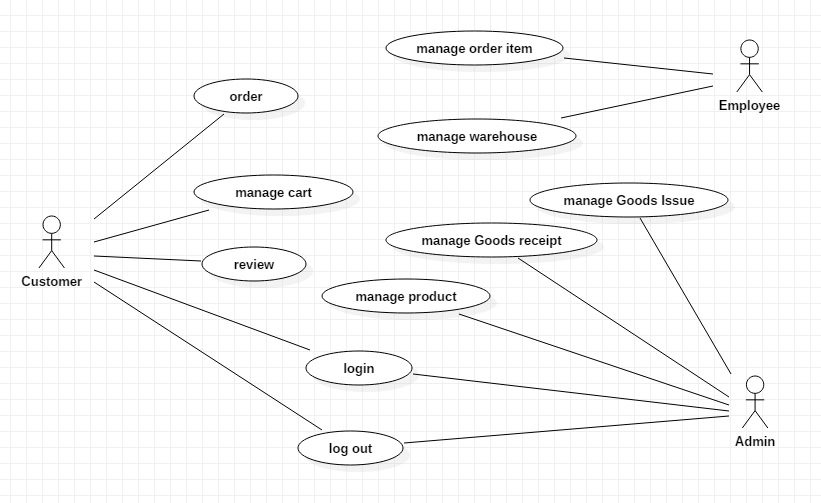
Đồ án tốt nghiệp được thực hiện tại : ĐHBKHN

Thời gian làm ĐATN Từ ngày 1/9/2018 đến 20/12/2018

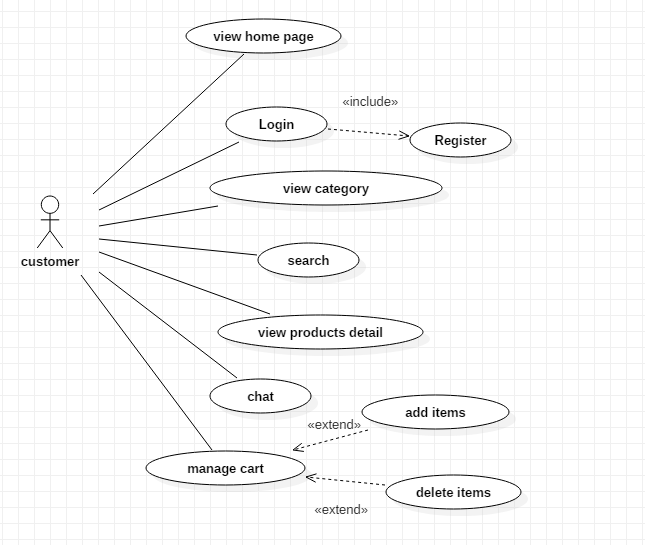
**TABLE GLOSSARY**

|  |  |
| --- | --- |
|  | **DESCRIPTION** |
| **HTML** | HyperText Markup Language, and is the standard markup languagefor creating web pages and web appplication |
| **CSS** | Cascading Style Sheets, and is style sheet language used for discribing the presentatioon of a document written in a markup language like HTML. |
| **PHP** | Hypertext Preprocessor , and is a widely-used open source general-purpose scripting language that is especially suited for web development and can be embedded into HTML. |
|  |  |
| **IDE** | Integrated Development Environment, and is a software application that provides support for software development |
| **DOM** | Document Object Model is an application programming interface which builds all the object struture in any given valid HTML |
| **MVC** | Model View Controller is a software architectural pattern for implementation of User Interface separating the application into three main logical components |
| **HTTP** | Stands for Hypertext Transfer Protocol, and is an application protocol for distributed, collaborative, hypermedia information system |

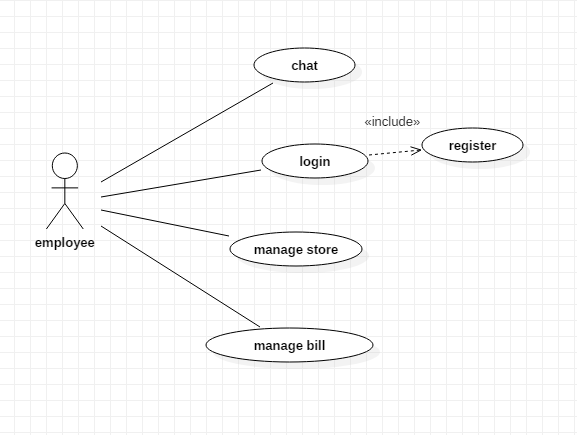
1. Usecase overview and details
2. Use case
   1. Use case Overview



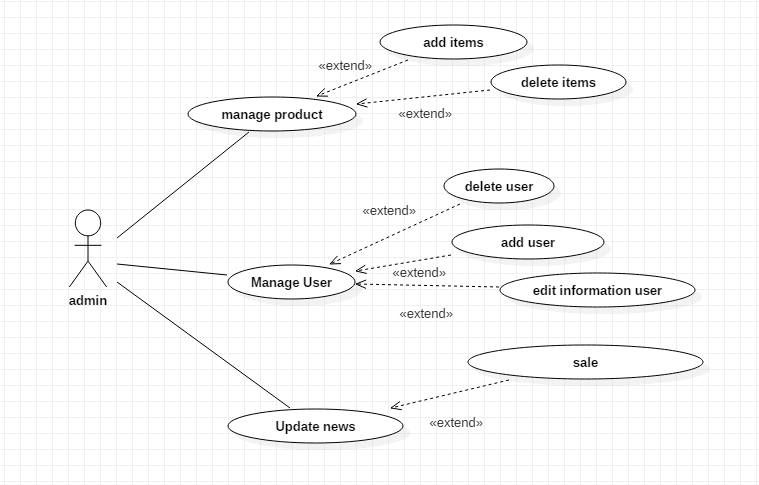
* 1. Use case customer detail



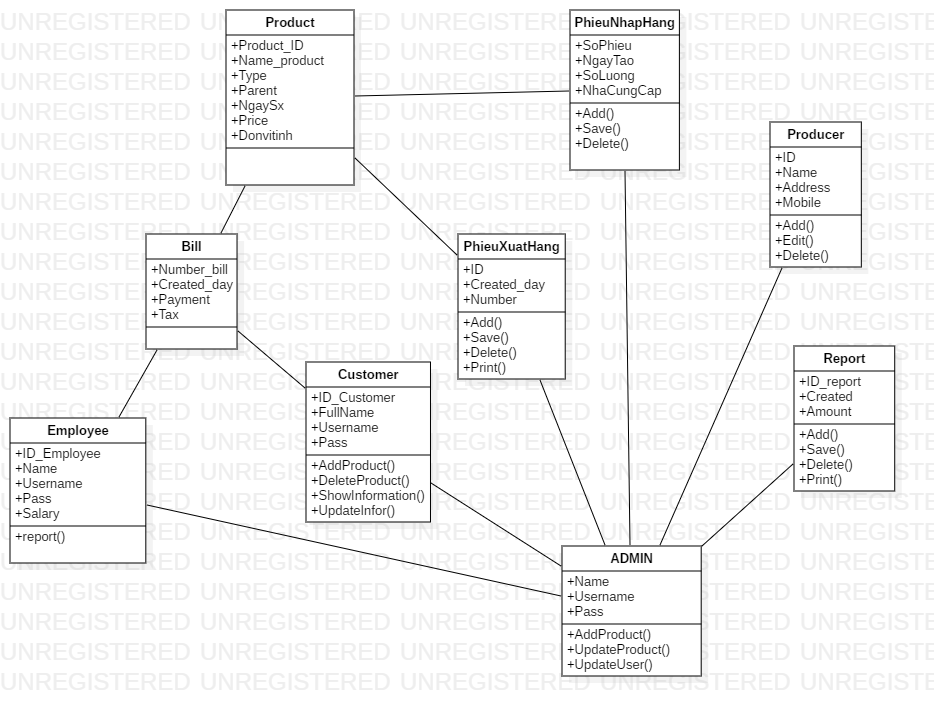
* 1. Usecase employee detail



* 1. Usecase Admin detail



1. Class diagram



1. Use case descriptions
   1. Login

|  |  |
| --- | --- |
| **Use Case** | Login |
| **High level** | High |
| **Primary Actor** | Customer, admin |
| **Goal In Context** | Log in to the system |
| **Preconditions** | They has a valid username and password and is not already logged in |
| **Scenario** | 1. They to the website 2. They register account 3. They Login 4. If they login successfull to home page |
| **Exceptions** | They type an invalid username or password |

* 1. Log out

|  |  |
| --- | --- |
| **Use Case** | Log Out |
| **High level** | High |
| **Primary Actor** | Customer, Admin |
| **Goal In Context** | Disable customer access to the system and only view items. |
| **Preconditions** | They are log in |
| **Scenario** | 1. Customer in home page 2. Customer click button Log out |
| **Exceptions** |  |

* 1. Manage good receipt.

|  |  |
| --- | --- |
| **Use Case** | Manage Product Import |
| **High level** | High |
| **Primary Actor** | Admin |
| **Goal In Context** | Admin import the product into the store when product not exist or customer order large the product |
| **Preconditions** | ID product and information has been updated in database. |
| **Scenario** | 1. Admin select manage good receipt. 2. System require type ID and amount of product. 3. Admin enter ID items and amount of items 4. Admin check validate product and amount items 5. System update infiormation items |
| **Exceptions** |  |

* 1. Manage good issue

|  |  |
| --- | --- |
| **Use Case** | Manage good issue |
| **High level** | High |
| **Primary Actor** | Admin |
| **Goal In Context** | System permit admin manage good issue to store frome customer |
| **Preconditions** | Items exist in store |
| **Scenario** | 1. Admin select manage good issue 2. System require type ID items and items issue 3. Admin type ID items and amount items 4. System check exist items in store and enought items in the store. 5. System acount and check amount of items have issue 6. System update category. |
| **Exceptions** |  |

* 1. Manage user

|  |  |
| --- | --- |
| **Use Case** | Manage user |
| **High level** | High |
| **Primary Actor** | Admin |
| **Goal In Context** | Adim add, edit, delete user. |
| **Preconditions** | Information items exist in Database |
| **Scenario** | 1. Admin select manage user in menu 2. System count bill of customer 3. Admin is based on bill, can voucher or sale 4. User not enough and never order , admin can delete account user. |
| **Exceptions** |  |

* 1. Manage order

|  |  |
| --- | --- |
| **Use Case** | Manage Order |
| **High level** | High |
| **Primary Actor** | Employee |
| **Goal In Context** | Create bill and give bill to customer |
| **Preconditions** | Customer order items.  ID items, order are updated in the system. |
| **Scenario** | 1. Create bill 2. Type information of product in the system 3. Check validate of order 4. Click button save |
| **Exceptions** |  |

* 1. Manage category products

|  |  |
| --- | --- |
| **Use Case** | Manage Category Product |
| **High level** | High |
| **Primary Actor** | Admin |
| **Goal In Context** | Add, edit , delete product |
| **Preconditions** | Admin login in system |
| **Scenario** | 1. Admin click manage category products 2. Add items   + Admin click button add  + System show popup type information product, nbame, producer  + Admin type full information into form .  + Admin click button save.   1. Edit information items   + Admin click button show the list of items  + System display list of product.  + Admin select button edit or delete.  + Click button save |
| **Exceptions** |  |

* 1. Manage Order

|  |  |
| --- | --- |
| **Use Case** | Manage Order |
| **Hight level** | Hight |
| **Primary Actor** | Customer |
| **Goal In Context** | Customer search product then order items |
| **Preconditions** | Customer log in systen |
| **Scenario** | 1. Customer type items in search 2. The system show the list of items 3. Customer select items and type information. 4. Information and feedback of products are provided by the system 5. Customer payment |
| **Exceptions** | Customers cancel orders |

1. Nonfunctional Requirements
   1. Operational Requirements

Run all browser such as : Chrome, IE, Opera, Firefox and browser mobile.

* 1. Performance Requirements

System run available with large user access

* 1. Security Requirements

Data information security and

* 1. Cultural and Political Requirements

No sell forbidden goods, habits and customs.

1. Fumctional Requirements
2. Manage Supplier Information
   1. Admin can added, updated and deleted supplier information, such as : email, phone number, address.
3. Manage Products Information
   1. The system will need a database of basic information about the products that it can sell in the website(example: ID number, name items, price, quanity in warehouse).
   2. Every day, the system will update information items in the databse. Some items will be added, deleted or revised.
   3. Admin will also can update information items, sale information.
4. Maintain Order Items
   1. Customer will login in the system to look items of interest. They search for specific items or browse for interesting items in certain categories.
   2. When the customer has found item they wants, the customer will click button add to cart or buying.
   3. If customer click buying , customer will providing personal information ( example: name, mobile phone, email). They will deliver to your address and customer will check out.
   4. Customer will also be able to check items. If item error or incorrect, they will return items.
   5. Order information will save in databse. Admin can check If they want.
5. Function Other: Import, Export file CSV, auto send mail.
6. Database
7. Table goods import

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Value | Null |  |
| Order\_id | Int(11) | Not null | Primay\_key |
| Product\_id | Int(10) | Not null | Foreign\_key |
| Status | Int | Not null |  |

1. Table goods export

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Value | Null |  |
| Order\_id | Int(11) | Not null | Primay\_key |
| Product\_id | Int(10) | Not null | Foreign\_key |
| Status | Int | Not null |  |

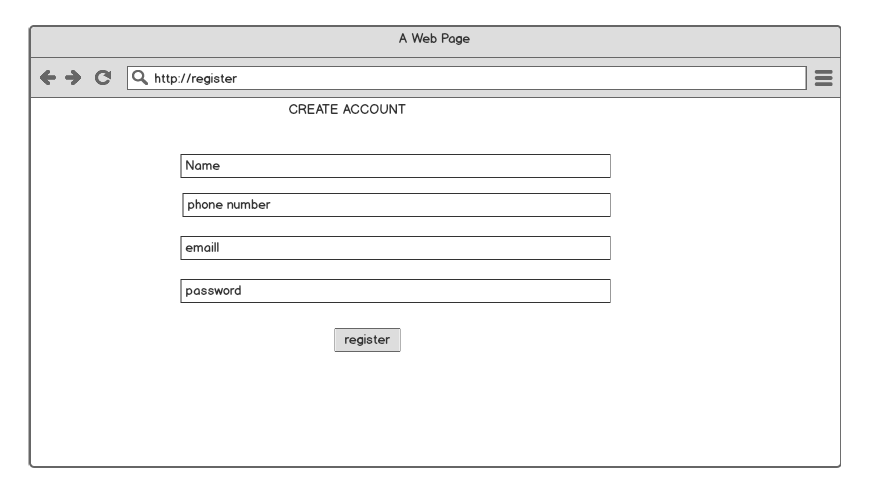
1. Table Producer

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Value | Null |  |
| Company\_id | Int(11) | Not null | Primay\_key |
| Name\_company | Char(30) | Not Null |  |
| Address | Char(50) | Null |  |
| Mobile | Int(15) | Not null |  |

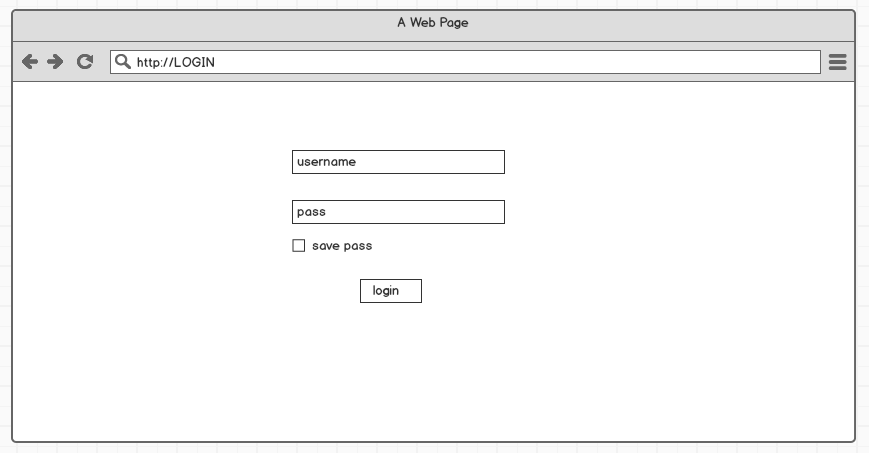
1. Table comment.

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Value | Null |  |
| Id\_coment | Int(11) | Not null | Primay\_key |
| Id\_product | Int(11) | Not null | Foreign\_key |
| Content | Char(200) | Not null |  |
| Username | Char(20) | Not null |  |
| Time | Datetime | Not null |  |
| Mobile | Int(11) | Not null |  |

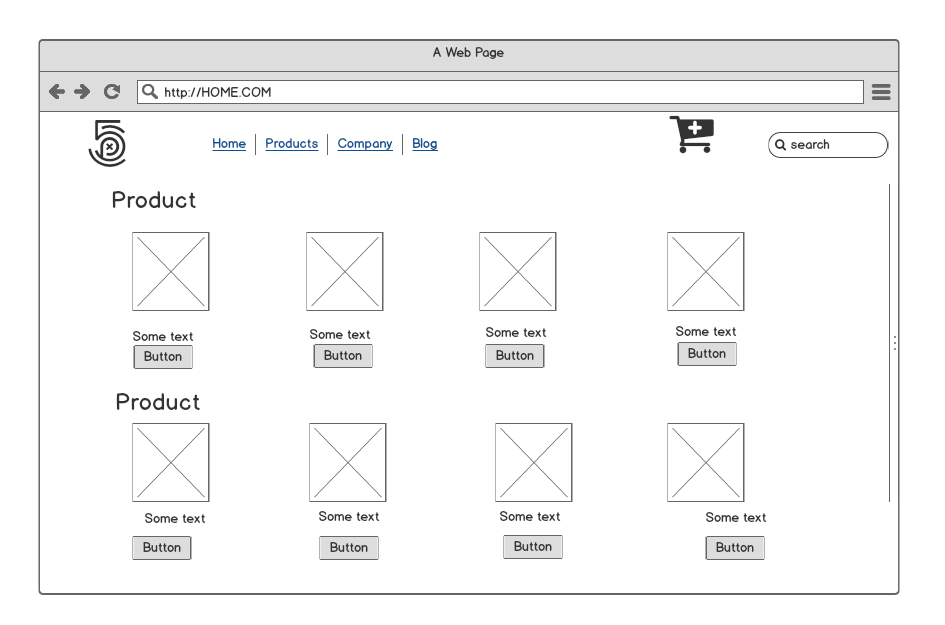
1. Design
2. User interface
   1. Register



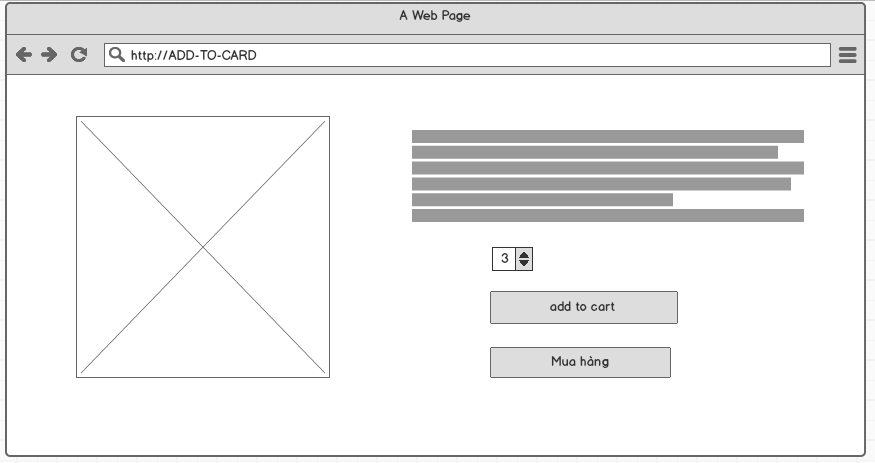
* 1. Login



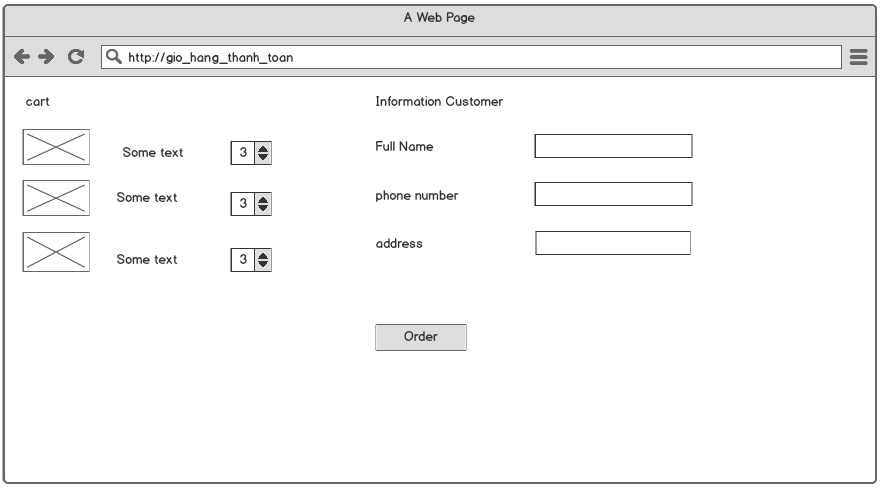
* 1. Home



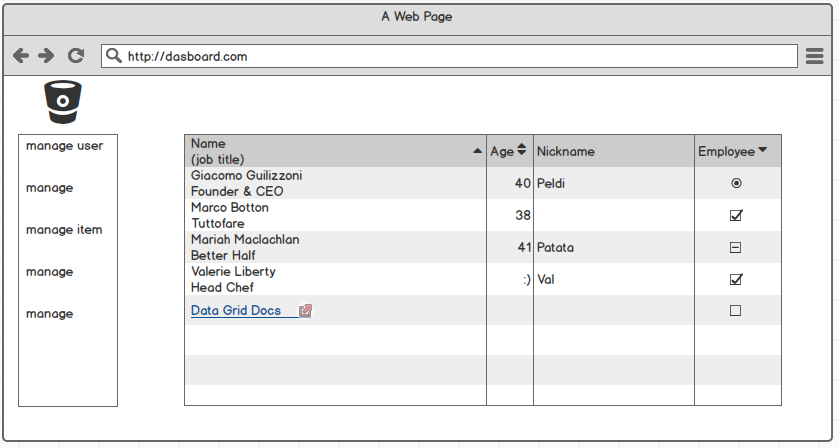
* 1. Items Detail



* 1. Order



* 1. Admin –dasboard



1. Magento – eCommerce Website

1.1. Introduce Magento 1

Magento is a feature-rich, professional open source e-commerce web application that was launched on March 31, 2008. Magento offers merchants complete flexibility and control over the look, content and functionality of their online store. Magento’s intuitive administration interface contains content management, powerful marketing and merchandising tools to give merchants the ability to create sites that are fully fit their unique business needs, putting no constraints on business processes and flow.

Magento dcdcdcdcdc

Magento released 3 different version :

* Magento Comunity (CE) – Magento version is free
* Magento Go – A monthly Magento version that primarily includes hosting services for the user’s website
* Magento Enterprise – The professional version of Magento integrates the most powerful features for the "big" website of the major sales.

Magento from recent versions supports quite simple installation. Magento usually releases 2 different installation versions: Full Release and Downloader. Version Downloader is a simplified version, which during installation, will automatically connect to Magento's data warehouse to download Magento's main features.

* 1. Pros and cons Magento eCommerce.
     1. Pros
* It has a large community of user

There is a large community of Magento users because it is one of the most used e- commerce platforms in the world. This has helped to ensure quick support.

* It is flexible

Magento is an open source platform. In other words, we could modify the source code as per our requirements and desire, which allows us to customize templates and achieve desired functionality.

* Scalable

Magento is built to scale so whether you’re selling 10 products or 10,000, Magento can handle it.

* Cost

Community version is free

* + 1. Cons
* Very difficult configure Magento hossting

1. MySQL

MySQL is the world’s most popular open source database. MySQL has become the best database choice for web-based applications. MySQL is develop, to publish , support by company MySQL AB. Reasson :

* Easy to use, very fast and reliable.
* MySQL is open source.
* Available and free to download and use
* MySQL compiles on a number of platforms such as : Windown, Linux, Mac
* Free from bugs.
* MySql is the most popular database system used with PHP.

1. Apache

Apache is the most widely used web server software. Developed and maintained by Apache Software Foundation, Apache is an open source software available for free. It runs on 67% of all webservers in the world. It is fast, reliable, and secure. It can be highly customized to meet the needs of many different environments by using extensions and modules.

1. Architectural design
2. Architectural solfware

Magento is a configuration-based MVC system.

In a configuration-based system, like Magento, in addition to adding the new file/class to the codebase, you often need to explicitly tell the system about the new class, or new group of classes. In Magento, each Module has a file named config.xml. This file contains all the relevant configuration for a Magento Module. At runtime, all these files are loaded into one large configuration tree.

For example, want to use Models in your custom Module? You'll need to add some code to config.xml that tells Magento you want to use Models, as well as what the base class name for all your Models should be.

The same goes for Helpers, Blocks, Routes for your Controllers, Event Handlers, and more. Almost anytime you want to tap into the power of the Magento system, you'll need to make some change or addition to your config file.

1. Model

Magento, like most frameworks these days, offers an Object Relational Mapping (ORM) system. ORMs get you out of the business of writing SQL and allow you to manipulate a datastore purely through PHP code

1. Block ,layout ,template

There are the components that create “View” in the system.

1. Block

Declare the module’s block in file config.xml

There are mainly two types of blocks in Magento

* + Structural blocks : These blocks actually defines the structure of a page block. This is where content blocks resides.

Example : Header, Left, Right, Footer and Main blocks (defines in page.xml)

* + Content blocks : These blocks are actually holding the content. Depends upon the type of block, the content hold by these block varies.

Example : Minicart, Recently viewed product, Newsletter subsription block, Poll.

1. Layout

File template has the extension .phtml which can contain HTML, PHP, CSS, JAVASCRIPT code…

1. Template
2. Controller

In any PHP system, the main PHP entry point remains a PHP file. Magento is no different, and that file is index.php.

However, you never CODE in index.php. In an MVC system, index.php will contain code/calls to code that does the following:

* Examines the URL
* Based on some set of rules, turns this URL into a Controller class and an Action method (called Routing)
* Instantiates the Controller class and calls the Action method (called dispatching).

1. Magento's default files and folders structure.

* .htaccess - contains mod\_rewrite rules, which are essential for the Search Engine Friendly URLs. There you can also find standard web server and php directives that can improve your web site performance;
* .htaccess.sample - this is a backup of the .htaccess file. If you modify .htaccess it can be used in order to get the default settings;
* app (directory) - This folder contains the modules, themes, configuration and translation files. Also there are the template files for the default administration theme and the installation;
* cron.php - a Cron Job should be set for this file. Executing of the file on a defined time period will ensure that the complicated Magento caching system will not affect the web site performance;
* downloader (directory) - This is the storage of the web downloader files. They are used for the installation and upgrade of Magento through your browser;
* favicon.ico - the default favicon for Magento. A small icon that is shown in the browser's tool bar once your web site is loaded;
* index.php - the main index file for Magento;
* index.php.sample - A backup of the default index file. It can be used to revert the changes in a case of a index.php modification;
* js (directory) - Contains the pre-compiled libraries of the JavaScript code included in Magento;
* lib (directory) - The Magento core code is located in this folder. It contains the software's PHP libraries;
* LICENSE\_AFL.txt - The Academic Free License under which the Magento software is distributed;
* LICENSE.txt - The Open Software License under which the Magento software is distributed;
* media (directory) - This is the storage of the Magento media files - images out of the box, generated thumbnails, uploaded products images. It is also used as a container for importing images through the mass import/export tools;
* mage (in versions older than 1.4.2.0 this tool was called pear) - The file controls the automatic update through the downloader script and SSH. It handles the update of each individual Magento module;
* php.ini.sample - This file contains sample php directives that can be used in order to modify your PHP setup. If you want to alter the default setup edit the file and then rename it to php.ini;
* skin (directory) - There are located the themes files - images, JavaScript files, CSS files, Flash files. Also there can be found the skin files for the installation of skins and administration templates;
* var (directory) - Cache, sessions, database backups, data exports and cached error

**REFERENCE**

SLIDE Analysis, design and development of Ph.D Nguyen Ba Ngoc

Book System Analysis and design with UML 2.0

<https://www.w3schools.com/>

<https://devdocs.magento.com>

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