About the Tutorial

Magento is an open source E-commerce software, created by Varien Inc., which is useful for online business. It has a flexible modular architecture and is scalable with many control options that is helpful for users. Magento uses E-commerce platform which offers organizations ultimate E-commerce solutions and extensive support network.

This tutorial will teach you the basics of Magento using which you can create websites with ease. The tutorial is divided into various sections and each of these sections contain related topics with screenshots explaining the Magento admin screens.

Audience

This tutorial has been prepared for anyone who has a basic knowledge of HTML and CSS and has an urge to develop websites. After completing this tutorial you will find yourself at a moderate level of expertise in developing e-commerce sites using Magento.

Prerequisites

Before you proceed with this tutorial, we are assuming that you are already aware about the basics of HTML and CSS. If you are not, then we suggest you to go through our short tutorials on HTML and CSS Tutorial.

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Part 1: Basics
What is E-commerce?

E-commerce (Electronic Commerce) is a type of business that involves the commercial transaction or purchasing or selling of goods and services through electronic channels known as internet. It was first introduced in the year 1960 through EDI (Electronic Data Interchange) on VAN (Value-added network). Using E-commerce, you can sell physical products or services (where the payment is made online).

Following are the categories of E-commerce:

- **B2B (Business to Business):** This transaction is between businesses. It is between the wholesaler and the retailer or between the manufacturer and the wholesaler.

- **B2C (Business to Consumer):** This transaction is between businesses and consumers. In this type of transaction, merchants sell products to consumers through shopping cart software.

- **C2C (Consumer to Consumer):** In this type of transaction, one consumer or customer interacts with other consumers through internet.

- **C2B (Consumer to Business):** This transaction is between the consumer or the customer and businesses or organizations where the consumer makes a product that the organization uses it to complete the business.

What is Magento?

Magento is an open source E-commerce software, created by Varien Inc., which is useful for online business. It has a flexible modular architecture. It is scalable and it has many control options that helps the user to build both user-friendly and search engine friendly websites.

Magento uses E-commerce platform which offers companies the ultimate E-commerce solutions and extensive support network. Magento allows user to update E-commerce website automatically. It is simple, quick and versatile to use.

Magento was developed by Varien Inc., and it was first released on March 31, 2008.

Why to Use Magento?

- Magento is an open source E-commerce software.

- Magento is scalable and offers small organizations to build business.

- Magento enables searching and sorting of products in several ways.

- Magento easily integrates with many of the third-party sites which are needed to run effective E-commerce website.
Magento

Features

- Magento provides different payment methods such as credit cards, PayPal, cheques, money order, Google checkouts, etc.
- Magento enables shipping of products in one order to multiple addresses.
- Magento helps to manage the orders easily by using the admin panel.
- Magento provides order of product status and history of product. It also supports e-mail and RSS feeds.
- Magento supports multiple languages, different currencies and tax rates.
- Magento filters the products and displays in grid or list format.
- Magento makes it easy to browse the products. It has features such as image zoom-in and checking of stock availability.
- Magento has built-in SEO (Search Engine Optimization).

Advantages

- Magento is user friendly E-commerce software.
- Magento is compatible with smartphones, tablets and other mobile devices.
- Magento provides multiple payment options, so every visitor can make payment based on their preferred payment gateway.
- Magento has many extensions which support the development of an online store.

Disadvantages

- Magento uses larger disk space and memory.
- Magento takes longer time to build the customized functionality.
- Magento is very slow compared to other E-commerce sites.
- Magento needs proper hosting environment. If the hosting environment is improper, the user can face many problems.
This chapter provides step-by-step procedure for Magento installation. Before installing Magento, you require the following system requirements.

**System Requirements for Magento**

- **Database:** MySQL 5.1+
- **Web Server:**
  - Apache 2.x
  - Nginx 1.7.x
- **Operating System:** Cross-platform
- **Browser Support:** IE (Internet Explorer 7), Firefox, Google chrome
- **SSL (Secure Socket Layer):** A valid security certificate is required for HTTPS
- **PHP Compatibility:** PHP 5.4+

**Download Magento**

**Step (1):** Open the link https://www.magentocommerce.com/products/downloads/magento/, you will get to see the following screen:

![Download Magento Screen](image)

**Step (2):** Click on the dropdown menu, the archive file is available in .zip, .tar.gz and .tar.bz2 for downloading.

**Step (3):** Extract the Magento web files from the archive on your computer and upload it into your web server or localhost.

**Step (4):** Magento requires MySQL database. So create a new empty database and user/password (for e.g. user as "root" and password as "root" or else you can set as per your convenience) for Magento.
**Step (5):** Open your browser and navigate to your Magento file path (for e.g. http://localhost/magento) to start your Magento installation. Then you will get a screen of the Magento installer as shown in the following screenshot.

![Magento Installer](image1.png)

**Step (6):** Click on Continue button and you will get Validation for Magento Downloader screen as shown in the following screen.

![Validation for Magento Downloader](image2.png)
Here, enter the database details, if you want to check for InnoDB support for Magento. Otherwise, click on **Continue** button to proceed to the next step.

**Step (7):** Next, you will get Magento Connect Manager Deployment screen.

It gives protocol name (HTTP or FTP), stability version such as **stable**, **beta**, **alpha** and deployment type. Select proper options and click on the **Continue** button. It will start the downloading process for Magento.

**Step (8):** Magento's Installation Wizard screen pops up. Check the **I agree to the above terms and conditions** checkbox and click on the **Continue** button.
**Step (9):** Next you will get the Localization screen for selecting the Locale, Time Zone and Currency as shown in the following screen.

Select proper locale name, time zone and currency and click on the **Continue** button.

**Step (10):** The next screen that pops up is the Configuration screen.
Fill the database information such as **Database Type, Host, Database Name, User Name** and **User Password**. If you do not want to validate the Base URL, then tick the **Skip Base URL validation before Next Step** checkbox and click on the **Continue** button.

In case the http://localhost/magento doesn't work, use this as base URL instead- http://127.0.0.1/magento

This step will take some time as Magento will be creating the Database Tables.

**Step (11):** Now, go to the Create Admin Account screen.

![Create Admin Account](image)

Here enter your personal information such as **First Name, Last Name and Email** and the Login Information such as **Username, Password and Confirm Password** for admin to use in backend. Need not worry about **Encryption Key** field as Magento will generate a key on the next page. After filling all information, click on the **Continue** button.

**Step (12):** Copy the encryption key, which will be used to encrypt passwords, credit cards and other confidential information. Then you can select Frontend or Backend of new Magento website.

**Step (13):** After successful installation of Magento, click on the Go to Backend button to login to admin panel.
Step (14): After logging in, you will get the Dashboard of Admin panel as shown in the following screen.
In this chapter, we are going to discuss the architectural style of Magento, for implementing user interfaces. The following diagram shows the architecture of Magento:

The Magento architecture comes with Models, Views and Controllers.

- **User Request:** The user sends a request to a server in the form of request message where web browsers, search engines, etc. act like clients.

- **View:** View represents the data in particular format. It is the user interface which is responsible for displaying the response for user request. It specifies an idea behind the presentation of the model’s data to the user. Views are used to reflect “how your data should look like”.

- **Controller:** The controller is responsible for responding to user input and perform interactions on the data model objects. It uses models to process the data and send responses back to the view.

- **Model:** The model is responsible for managing the data of the application. It contains logic of the data and represents basic data object in the framework. It responds to request from the view and to the instructions from the controller to update itself.

- **Database:** Database contains the information which is requested from the user. When the user requests data, view sends requests to the controller, the controller requests from the model and the model fetches the required information from the database and responds to the user.

- **WSDL:** WSDL stands for Web Services Description Language. It is used for describing web services and how to access them.
Part 2: Store Setup
Magento Products

Products are the items or things that are sold in Magento. Product can be anything that is capable of satisfying the customer’s needs. This includes both physical products and services.

Product Types

Magento provides 6 different types of products. Appropriate selection of product type is essential for accessing the appropriate set of features required to sell the product. Following are the product types available in Magento.

- Simple Products
- Grouped Products
- Configurable Products
- Virtual Products
- Bundled Products
- Downloadable Products

Simple Products

These are general product type, which are the most used products. In this section, there are no options for selecting size or color of the product. **Example:** Coffee cup, DVD’s, Camera lens, etc.

Grouped Products

This is a group of simple products. In this type, you cannot specify a specific price for a product; you can just specify the discount. **Example:** Cell phone + Memory card + Earphone

Configurable Products

In this type, customers can select products according to their color and size before purchasing. **Example:** Cell phones obtained in different colors and sizes.

Virtual Products

Virtual products are those which do not have physical counterpart, i.e. these are used for virtual items. These products cannot be shipped or stocked. **Example:** Online training course.
**Bundled Products**

Bundled products are those products which cannot be sold separately and doesn't give any choice to the end user.

Example: Consider you want to buy a cell phone which includes earphone, memory card, battery, charging cable, etc. These are together called bundled products. These products cannot be sold individually but can be sold within the bundle product.

**Downloadable Products**

Products which are available for download are known as downloadable products.

Example: MP3 file, ebook, documents, etc.

**Product Attributes**

Attribute describes the property of the product. Product attributes helps to set product properties such as color, size width, height, etc. and makes the product unique. You can add as many attributes to your product as required.

The following steps describe, how to set up the attributes for products in Magento:

**Step (1):** Login to your Magento Admin Panel.

**Step (2):** Go to Catalog and select Attributes from the dropdown menu and click on the Manage Attributes option.
Step (3): Under **Manage Attributes** section, you will find different attributes used in the system. For adding new attribute, click on **Add New Attribute** seen on the top right corner of the screen.

![Manage Attributes](image1)

Step (4): Now you need to set the attribute properties for your product. After setting up all the required attribute properties, click on **Save Attribute** button to store the product information.

![New Product Attribute](image2)
In this chapter, we will see how to use the Multilanguage feature of Magento.

**Step (1):** Go to the official website of Magento and search for a new language pack using search field. For instance, if you want to search for Italian language, type **Italian Language Pack** in search box and press enter. It displays the installation package file. Click on it.

**Step (2):** You get a package for installing language. You must login to the site to get a language pack. After you login, you get the **Extension Key** as shown in the following screen.
Step (3): Now login to your Magento Admin Panel and go to the System --> Magento Connect --> Magento Connect Manager option.

![Magento Admin Panel](image)

Step (4): It again asks you to login. Enter your credentials to redirect to Magento Connect Manager window.

Step (5): Now under Extensions section, paste the Extension Key (that you had already copied in step 2) and click on Install button. It then displays a status as "Ready to install" and click on Proceed button to install the language.

![Magento Connect Manager](image)
Step (6): It checks for dependencies of packages and displays the message as **Cache cleaned successfully**. Now go to admin dashboard page by clicking on **Return to Admin** link.

![Auto-scroll console contents](image)

Procedure completed. Please check the output frame for useful information and refresh the page to see changes.

Step (7): Go to the **System** menu and click on **Manage Stores** option.

![Dashboard](image)

Step (8): You will get **Manage Stores** section to create store view as shown in the following screen.
Step (9): Click on Create Store View button and enter the information for Store, Name, Code, Status and Sort Order fields. Click on Save Store View button to store the view as shown in the following screen.

Step (10): To set up your stored language pack, go to the System menu and click on the Configuration option.
Step (11): Go to **Current Configuration Scope** section on the left side of the page and select the **Italian** option from the dropdown menu.

Step (12): Now under **General** section, click on **Locale Options**, uncheck the **Use Website** checkbox, select the **Italian (Italy)** option from the dropdown menu of **Locale** field and click on **Save Config** button.

This saves your language in Magento and selected language will be assigned in the selected store view.
Magento has built-in contact form which can be used for general contacts and can be found in the footer part of your Magento installation.

Following are the steps to create contact form in Magento:

**Step (1):** Login to your Magento Admin Panel.

**Step (2):** Go to CMS menu and click on the **Pages** option.

**Step (3):** Select the page which you would like to edit or else you can create the new page by clicking on **Add New Page** button.
**Step (4):** Click on the **Content** option on the left side of page which will open the WYSIWYG editor and click on the **HTML** option that display **HTML Source Editor** window and paste the below code.

```html
<!- CONTACT FORM ->

{{block type="core/template" name="contactForm" form_action="/contacts/index/post" template="contacts/form.phtml"}}

<!- END OF CONTACT FORM ->
```

**Step (5):** Click on **Save Page** button and preview the created page to see the contact form.
Categories are classes or things which are related, and have some shared characteristics. The following steps describe how to add categories for the products in Magento.

**Step (1):** Login to your Magento Admin Panel.

**Step (2):** Go to the Catalog menu and click on the Manage Categories option.

**Step (3):** Next you need to fill the fields like Name of the category, Is Active status which is set to Yes/No and Description of the category.

**Step (4):** Click on Save Category button and your category is ready to have the products added to it.
Products are the items or things that are sold in Magento. You can add your products to the store view as per customers’ needs. It includes both physical products and services.

Magento provides an easy way to add your product quantities as described in the following steps:

**Step (1):** Login to your Magento Admin Panel.

**Step (2):** Go to Catalog and select the **Manage Products** option from dropdown menu.

![Magento Admin Panel](image)

**Step (3):** Under **Manage Products** section, you will see a list of products, if you have added to your Magento store. If you want to add new product, click on the **Add Product** button on the page.

![Magento Manage Products](image)
**Step (4):** Next select the Attribute Set and **Product Type**. There is no need to change anything just go ahead and click on **Continue** button.

![Magento New Product - Create Product Settings](image)

**Step (5):** Under **General** section, fill all the details such as Name of the product, Description, SKU (Stock Keeping Unit), Weight, Status, Visibility, etc. and then click on the **Save and Continue Edit** button.

![Magento General Section - Fill Details](image)
Step (6): Enter the Price and Tax Class for your product and you can also add additional price using Group Price, Special Price and Tier Price options. Fill all the necessary fields and click on Save and Continue Edit button to proceed further.

Step (7): If you want to see list of the saved products, just go to the Catalog and click on the Manage Products option.
**Step (8):** You can customize the product information by clicking on the **Inventory** option on the left side. You can set quantity of the products, stock availability, etc. as shown in the screen. Then save the product by clicking on **save** button.
Inventory allows setting a product's stock quantity. For instance, you have a product with 100 units in stock. If you set the stock availability to "Out of Stock" then it will force the item to be out of stock. We will see how to configure and manage the inventory settings in Magento.

**Step (1):** Login to your Magento Admin Panel.

**Step (2):** Go to **System** menu and click on the **Configuration** option.

**Step (3):** Click on the **Inventory** option under the **Catalog** section on the left side of the screen which contains two panels **Stock Options** and **Product Stock Options** as shown in the following screen.
Step (4): The Stock Options panel pops up which contains some settings.

<table>
<thead>
<tr>
<th>Setting Description</th>
<th>Default Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Set Items' Status to be In Stock When Order is Cancelled</td>
<td>Yes</td>
<td>Displays the status of the item in the stock when order is cancelled.</td>
</tr>
<tr>
<td>Decrease Stock When Order is Placed</td>
<td>Yes</td>
<td>Indicates whether the stock quantity of the product should be reduced.</td>
</tr>
<tr>
<td>Display Out of Stock Products</td>
<td>No</td>
<td>Displays products which are out of stock.</td>
</tr>
<tr>
<td>Only X left Threshold</td>
<td>0</td>
<td>Used to set threshold number.</td>
</tr>
<tr>
<td>Display products availability in stock in the frontend</td>
<td>Yes</td>
<td>Displays the availability of stock products.</td>
</tr>
</tbody>
</table>

- **Set Items' Status to be In Stock When Order is Cancelled**: It displays the status of the item in the stock when order is cancelled. By default, it is set to **Yes**.

- **Decrease Stock When Order is Placed**: It indicates whether the stock quantity of the product should be reduced when an order is placed. By default, it is set to **Yes**, meaning it decreases the stock of the products when an order is placed.

- **Display Out of Stock Products**: As the name suggests, it displays the products which are out of stock. By default, stock products are not shown in the catalog. If you want the product to be visible to the customer, then set it to **Yes**.

- **Only X left Threshold**: It is used to set threshold number. When the units of that product have dropped to that number, it will display **Only X left** message on the product details page. By default, it is set to 0 which means it is disabled.

- **Display products availability in stock in the frontend**: It displays the availability of stock products by setting it to **Yes** option.
**Step (5): Product Stock Options** panel contains settings related to managing the stock of the products.

- **Manage Stock**: By default, it is set to **Yes** which means it specifies the number of products per unit and it decreases the stock of the products when an order is placed.

- **Backorders**: By default, it is set to **No Backorders** option. If it is enabled, customers can buy products even if they are out of stock. If you want to allow backorders, then set this option to **Allow Qty Below 0** (customers are able to backorder the products) or **Allow Qty Below 0 and Notify Customer** (customers can backorder the products which will be notified on the shopping cart page of the frontend).

- **Maximum Qty Allowed in Shopping Cart**: It is used to set the maximum number of units per product that customer can order. This means customers can order the maximum allowed quantity from certain product. By default, it's set to 10000.

- **Minimum Qty Allowed in Shopping Cart**: It is used to set the minimum number of units per product that the customer is required to purchase.

- **Qty for Item's Status to Become Out of Stock**: It displays the message as "Out of Stock", when the quantity of the product becomes zero.

- **Notify for Quantity Below**: By default, it is set to 1 which notifies when stock of the product reaches one. If you enter 0, it will disable the option. You will be informing with RSS feeds. To do this, you need to go to **Catalog** menu > **Manage Products** and click on the link **Notify Low Stock RSS** as shown in the following screen.
When you click on the link, it will ask for admin username and password.

- **Enable Qty Increments**: By default, this option is disabled. If you set this option to **Yes**, a field labeled **Qty Increments** will appear just under it. You can type the number of products that make up a quantity increment.

- **Automatically Return Credit Memo Item to Stock**: By default the products in the order are not returned to stock. If you want items from orders that you refund to be returned to stock, set the option to **Yes**.

Fill all information in the respective fields and click on the **Save Config** button.
Magento allows to set up different tax classes and tax rates, and bringing them together into tax rules. You can also define product tax classes and assign them to products. Tax rules are combination of product tax class, customer tax class, tax rates, shipping address and amount of purchase.

The following steps describe how to add and manage tax classes in Magento.

**Step (1):** Login to your Magento admin panel.

**Step (2):** Go to **Sales** menu > **Tax** and click on the **Product Tax Classes** option.

**Step (3):** Product class is a type of product that is being purchased. It includes two product tax classes: **Taxable Goods** and **Shipping**. To add new product tax class, click on **Add New** button as shown in the following screen.
Step (4): Now enter the name for your product tax class in the **Class Name** box and click on the **Save Class** button on the upper right corner.

Set Up Tax Rates

Tax rate is a combination of tax zone (such as country, state or zip) and percentage. You can set up tax rates as shown in the following steps.

**Step (1):** Login to Magento Admin Panel.

**Step (2):** Go to **Sales menu > Tax** and click on the **Manage Tax Zones & Rates** option.
**Step (3):** Under **Manage Tax Rates** window, click on the **Add New Tax Rate** button.

![Add New Tax Rate button](image)

**Step (4):** It provides several options such as:

- **Tax Identifier** field defines the title of the newly created tax rate.

- **Country and State** fields describe the country and state to which the specific tax applies. You can select country and state from the dropdown options given.

- **Zip/Post is range (set to Yes)** field which provides two fields, i.e. **Range From** and **Range To**. These fields show the starting and ending of ZIP code range.

- **Rate Percent** specifies the percent of the tax rate.

After completing the settings, click on the **Save Rate** button.

![Add New Tax Rate settings](image)

**Set Up Tax Rules**

Tax rules are entities that combine product tax classes, customer tax classes and tax rates. Without setting up tax rules, taxes will not be applied. It determines how tax will be applied on each order that is placed in the store.

The following steps describe how to add tax rules for products in Magento:

**Step (1):** Login to your Magento Admin Panel.
Step (2): Go to Sales menu > Tax and click on the Manage Tax Rules option.

Step (3): To add new tax rule, click on the Add New Tax Rule button in the top right corner.

Step (4): It contains some settings such as:

- **Name** field specifies name for tax rule
- **Customer Tax Class** field displays the list of customer tax classes that you have created
- **Product Tax Class** field displays the list of product tax classes that you have created
- **Tax Rate** field selects the tax rate which you want to apply to this rule
- **Priority** field specifies when the tax should be applied to other tax rules
- **Sort Order** field displays the order in which tax rules should be displayed

After completing the settings, click on the **Save Rule** button.

---

**Import/Export Tax Rates**

Magento provides support for exporting and importing tax rates to the webstore. You can set up different tax percentages settings per different zip code. You can edit the rates in excel and import them back.

The following steps describe how to Import/Export tax rates in Magento:

**Step (1):** Login to your Magento Admin Panel.
Step (2): Go to Sales menu > Tax and click on the Import/Export Tax Rates option.

Step (3): It will display the window as shown in the following screen.
**Step (4):** When you click on the **Export Tax Rates** button, it will download the file as shown in the following screen.

The spreadsheet includes Code, Country, State, Zip/Post Code, Rate, Zip/Post is Range, Range From, Range To and Default columns. For instance, while installing Magento, there is one tax rate for the New York. The **US-NY-*-Rate 1** means tax rate number 1 for New York which is 8.375 percent.

**Step (5):** You can edit the file and import the tax rates into your Magento store by going to **Sales** menu > **Tax** and click on the **Import/Export Tax Rates** option.

Click on the **Choose File** button to locate the CSV file from your computer and click the **Import Tax Rates** button.
Step (6): On the Admin menu, go to Sales menu > Tax and click on the Manage Tax Zones & Rates option. The imported data appears as shown in the following screen.
In online business, selling of physical products to customers should have flexible and scalable shipping policies. Magento is a friendly system for business needs including shipment rates.

The following steps describe how to setup shipping rates in Magento:

**Step (1):** Login to your Magento Admin Panel.

**Step (2):** Go to the System menu and click on the Configuration option.

**Step (3):** On the left side of the navigation bar, click on the Shipping Methods under Sales section.
Step (4): Then expand the **Table Rates** section, enable the table rates by selecting **Yes** from the dropdown menu for the **Enabled** field. It will turn off flat rate shipping and allow you to specify different rates based on chosen criteria.

Step (5): Fill all the required fields as shown in the following screen and click on the **Save Config** button. It will save your current configuration into Magento.

![Shipping Methods](image)

Step (6): If you want to modify the fields of table rates section, go to **Current Configuration Scope** menu in the top left corner and select the **Main Website** option from dropdown menu.
Step (7): Magento allows to view or generate and download different reports. Magento has integrated tools for CSV files generation. You can create the shipping rates in a spreadsheet and then import them to your website. Click on the Export CSV button to download the template. Upload the file into Magento by clicking on the Choose File button next to the import option.

Step (8): After uploading the file, click on the Save Config button on the top right corner to save the table rates.
Step (8): The CSV structure will look as shown in the following screen:

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Country</td>
<td>Region/State</td>
<td>Zip/Postal Code</td>
<td>Weight (and above)</td>
<td>Shipping Price</td>
</tr>
</tbody>
</table>

The first column specifies the country where the shipping rate will apply, second column specifies the region/state within that country, third column specifies the postal code of the region/state, fourth and fifth columns determine the price for the shipping rate in which these values represent whatever currency you have set for your webstore.

After completing this process, save the file and import it into your Magento webstore by using the Import button.
PayPal is a secure way for customers to pay online. This chapter explains how to set up payment methods in Magento. With PayPal and Magento, you can accept payments from credit cards, debit cards and PayPal account holders.

The following steps describe how to set up payments plans in Magento:

**Step (1):** Login to your Magento Admin Panel.

**Step (2):** Go to **System** menu and click on the **Configuration** option.

![Configuration](image)

**Step (3):** On the left side of the navigation bar, click on the **Payment Methods** under **Sales** section.

![Payment Methods](image)
In some of the payment methods, there are some common settings as specified:

- **Enabled**: This option is used to enable or disable the payment method.

- **Title**: It specifies the title for the payment method which will display during customer checkout and inside order e-mails and summaries.

- **New Order Status**: It represents the status of an order after processing of payment. It will display either **Pending** or **Processing** choices.

- **Sort Order**: During checkout mechanism, it displays the position of the payment method in the list of all the payment choices.

- **Payment Applicable From**: It selects payment from all or some specific countries in which countries will offer the payment method you are configuring.

- **Minimum Order Total**: It specifies minimum order amount available for the products order.

- **Maximum Order Total**: It specifies maximum order amount available for the products order.

**Step (4)**: Next, under **Merchant Location** panel, set the merchant country from the dropdown menu.
**Step (5):** It provides following types of payment methods which adds PayPal as additional payment method to your checkout page.

![PayPal Payment Solutions](image1)

**Step (6):** You can click on the **Configure** button to make PayPal settings. Fill the e-mail field with e-mail address which is associated with PayPal merchant account for accepting the payments and along with all other required fields.

![Required PayPal Settings](image2)
Step (7): The following screen shows you the Basic and Advanced settings of PayPal payments.

![Basic Settings - PayPal Payments Standard](image)

Step (8): Under Basic Settings, enter Title for the payment method, Sort Order option used to sort payment methods in the checkout page. Payment Action section offers to select either Sale or Authorization or Order which defines how the payment will be processed in the PayPal payment system. Under Advanced Settings, select the Payment Applicable From option as All Allowed Countries and similarly fill all other required fields.

Step (9): Next panel is Saved CC which provides credit card payments on your website.
- **Credit Card Types**: It allows for selecting credit card types for the payment processing.

- **Request Card Security Code**: It asks for the credit card's security code which makes fraud little harder by setting it to Yes.

- **3D Secure Card Validation**: It is an additional security functionality where customer needs to provide credit card password to complete the purchase order.
Step (10): Next is the **Check/Money Order** panel.

Set the values for **Make Check Payable to** and **Send Check to** options.

Step (11): The **Zero Subtotal Checkout** panel is a payment option that displays when order total is zero and not required to enter payment details for the customer.
**Step (12):** The Bank Transfer Payment panel contains one specific field called **instructions** which allows to enter bank account details that customer needs to transfer money to you.

**Step (13):** The Cash on Delivery Payment panel also contains one specific field called **instructions** which allows to list information related to the cash on delivery payment.
Step (14): The Purchase Order panel contains same options.
Step (15): The Authorize.net Direct Post panel contains some other options such as setting the payment action, API login ID for authorization, setting the transaction key and merchant name, setting the test mode to Yes/No, Gateway URL of authorization, setting the accepting currency, e-mail of customer and merchant, types of credit card used for purchase, and enable or disable the credit card verification as shown in the following screen.
Step (16): The Authorize.net panel works similar to the Authorize.net Direct Post panel, with the only difference being it allows to enable or disable the 3D secure card validation on the credit cards, which makes fraud little harder by setting it to Yes.

Step (17): After you are done with the settings, click on the Save Config button on the top right corner of the page to save your payment methods.
Payment gateway processes the credit card data securely between the customer and the merchant and also between the merchant and the payment processor. It is like a checkpoint that protects against attempting to gather personal and financial information from customers and also acts as a mediator between the merchant and the sponsoring bank.

The following steps describe how to set up payment gateway in Magento:

**Step (1):** Login to your Magento Admin Panel.

**Step (2):** Go to System menu and click on the Configuration option.

**Step (3):** Next you will see some list of options on the left side of the page. Scroll down and go to the Sales section and click on the Payment Methods option.
Step (4): Under the Payment Methods section, expand the PayPal Payment Gateways option. It provides two types of payment gateway methods; one is Payflow Pro (Includes Express Checkout) and Payflow Link (Includes Express Checkout). Click on the Configure button to enter details for Payflow Pro and Payflow Link options respectively.

The Payflow Pro option is a customizable payment gateway, which can be used with merchant account to process credit card transactions. It does not need PayPal account as they can enter their credit card information directly on site and you need to add API credentials in Magento admin panel. It is also used to process PayPal Express Checkout (it allows customers to pay by credit card or from the security of their personal PayPal accounts) transactions.

Under Payflow Link option, once the customer decides to checkout, the checkout process is carried out on PayPal site. It is often called as hosted payment gateway that keeps the customer on your site by providing fast and easy way to add transaction processing to your site.
14. Magento – Set Up Payment Methods

This article explains how to set up payment methods in Magento and also shows how to configure Magento to use PayPal as payment processor for both credit cards and PayPal payments.

The following steps describe how to set up payments in Magento:

**Step (1):** Login to your Magento Admin Panel.

**Step (2):** Go to System menu and click on the Configuration option.

**Step (3):** Next, you will see some list of options on the left side of the page. Scroll down and go to the Sales section and click on the Payment Methods option.
**Step (4):** Next, under Merchant Location panel, set the merchant country from the dropdown menu.

**Step (5):** It provides following types of payment methods which adds PayPal as additional payment method to your checkout page.
**Step (6):** You can click on the **Configure** button to make PayPal settings. Fill the e-mail field with e-mail address which is associated with **PayPal Merchant Account** for accepting the payments. Similarly, fill other required fields.

**Step (7):** The following screen shows the Basic and Advanced settings of PayPal payments.
**Step (8):** Under **Basic Settings**, enter *Title* for the payment method. *Sort Order* option is used to sort payment methods in the checkout page. *Payment Action* section offers to select either Sale or Authorization or Order, which defines how the payment will be processed in the PayPal payment system.

**Step (9):** Under **Advanced Settings**, select the *Payment Applicable From* option as All Allowed Countries, *Debug Mode* option as No, *Enable SSL verification* as Yes and *Transfer Cart Line Items* as Yes.

**Step (10):** After you are done with the settings, click on the **Save Config** button on the top right corner to save your payment methods. Now you are ready to accept payments through your shopping cart.
15. Magento – Set Up Currencies

Magento has built-in functionality for currencies. After installing Magento, by default there will be one currency used for pricing and payment.

The following steps illustrate how to set up currencies in Magento store:

**Step (1):** Login to your Magento Admin Panel

**Step (2):** Go to **System** menu and click on the **Configuration** option.

**Step (3):** On the left side of the navigation bar, click on the **Currency Setup** option under **General** section.
Step (4): Expand the Currency Options panel, and you will get some settings option.

- **Base Currency**: Select the base currency from dropdown menu that you want to set as default. It is directly associated with the price of the products. If you change the base currency, the price will not change and it won't recalculate using new base currency.

- **Default Display Currency**: It displays the default currency that can be used to show the prices of the products. When customer visits your store, it displays the currency set by you.

- **Allowed Currencies**: It provides a long list which allows you to select more than one currency. If there is more than one currency, then customers can select one of the allowed currencies from the dropdown menu on the frontend.

After selecting your currencies option, click on **Save Config** button on the top right corner to save your settings.
Checkout options are used for enabling and disabling the one-page checkout. This chapter guides you how to configure checkout options from the admin panel of Magento.

**Step (1):** Login to your Magento Admin Panel.

**Step (2):** Go to **System** menu and click on the **Configuration** option.

**Step (3):** Under **Sales** section on the left side of the navigation bar, click on the **Checkout** option.
**Step (4):** Expand the **Checkout Options** panel which includes setting for one-page checkout with enable/disable option, you can also enable/disable guest checkout and last option from which you can enable or disable terms and conditions.

<table>
<thead>
<tr>
<th><strong>Checkout Options</strong></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Enable One Page Checkout</td>
<td>Yes</td>
<td>[STORE VIEW]</td>
</tr>
<tr>
<td>Allow Guest Checkout</td>
<td>Yes</td>
<td>[STORE VIEW]</td>
</tr>
<tr>
<td>Enable Terms and Conditions</td>
<td>No</td>
<td>[STORE VIEW]</td>
</tr>
</tbody>
</table>

**Step (5):** The **Shopping Cart** panel has options such as:

- **Quote Lifetime** *(days)* which determines lifetime of products in cart, after a customer puts items in the cart.

- **After Adding a Product Redirect to Shopping Cart** determines whether customers should be redirected to the shopping cart page after the product is placed in the cart.

- **Grouped Product Image and Configurable Product Image** options determine whether the parent image of product should be displayed on the cart and whether configurable product added to the cart should be displayed on the shopping cart or not.
**Step (6):** The **My Cart Link** panel specifies whether the number of quantities in the cart should be shown or whether the number of different products should be shown using the **Display Cart Summary** field.

![My Cart Link Panel](image)

**Step (7):** The **Shopping Cart Sidebar** panel contains two options:

- The **Display Shopping Cart Sidebar** option can hide or show the cart sidebar on the frontend.
- **Maximum Display Recently Added Item(s)** option specifies recently added items to be listed in the cart.

![Shopping Cart Sidebar Panel](image)

**Step (8):** The **Payment Failed Emails** panel has some settings such as:

- **Payment Failed Email Receiver** option stores e-mail address to which payment failed e-mail should be sent.
- **Payment Failed Email Sender** option specify from which e-mail address payment failed e-mail should be sent.
- **Payment Failed Template** option specifies which template should be used to display message.
- **Send Payment Failed Email Copy To** option allows to send copies of e-mails to additional e-mail addresses and last option.
- **Send Payment Failed Email Copy Method** selects either separate e-mails or blind carbon copies methods to send payment failed e-mails.
**Step (9):** After done with all settings, click on the *Save Config* button to save your settings.
In this chapter, we will study how to set up PayPal payment. Following are the steps to set up PayPal payment in Magento.

**Step (1):** Login to your Magento Admin Panel.

**Step (2):** Go to **System** menu and click on the **Configuration** option.

**Step (3):** On the left side of the navigation bar, click on the **Payment Methods** under **Sales** section.
Step (4): Next, under Merchant Location panel, set the merchant country from the dropdown menu.

Step (5): It provides the following types of payment methods which adds PayPal as an additional payment method.
**Step (6):** You can click on the **Configure** button to make PayPal settings. Fill the e-mail field with an e-mail address which is associated with PayPal merchant account for accepting the payments, along with all other required fields.

![Required PayPal Settings](image)

**Step (7):** The following screen shows you the Basic and Advanced settings of PayPal payments.

![Basic Settings - PayPal Payments Standard](image)

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Magento

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Step (8): Under **Basic Settings**

- Enter *Title* for the payment method.
- *Sort Order* option used to sort payment methods in the checkout page
- *Payment Action* section offers to select either Sale or Authorization or Order, which defines how the payment will be processed in the PayPal payment system.

Step (9): Under **Advanced Settings**

- Select the *Payment Applicable From* option as All Allowed Countries.
- *Debug Mode* option as No.
- *Enable SSL verification* as Yes.
- *Transfer Cart Line Items* as Yes.

Step (10): After done with the settings, click on the **Save Config** button on the top right corner to save your payment methods. Now you are ready to accept payments through your shopping cart.
Google Checkout is online payment processing service provided by Google. Magento allows integration of online stores with Google checkout. It is like PayPal that simplifies the process of paying for online purchases. To use Google Checkout, customers need to have Google Checkout merchant account.

The following steps help to set up Magento store with Google Checkout.

**Step (1):** Login to your Magento Admin Panel.

**Step (2):** Go to System menu and click on the Configuration option.
Step (3): On the left side of the navigation bar, click on the Google API under Sales section.
**Step (4):** Expand the **Google Analytics** panel which shows some settings such as:

- **Enable** option should be set to Yes to activate payment method.,
- **Type** option provides two types: Google Analytics and Universal Analytics.
- **Account Number** accepts your account number.
- **Enable IP anonymization** option should be set to Yes.

![Google Analytics Panel](image)

After done with the settings, click on the **Save Config** button on the top right corner of the page to save the changes that you have made.
This chapter shows how to setup the live store on your Magento website.

**Step (1):** Login to your Magento Admin Panel.

**Step (2):** Go to **System** menu and click on the **Manage Stores** option.

**Step (3):** Under **Manage Stores** section, you will get website names, store names and Store View Name columns. Click on the **Create Store** button to begin with setting up the Magento live store.
Step (4): The store information includes some options such as:

- **Website** which allows selecting the website name which you created before.
- **Name** option specifies name of your second website name.
- **Root Category** option specifies the root category that will be used for store.

After done with the settings, click on the **Save Store** button.
Part 3: Order Processing
Orders follow a standard life cycle process. When the customer places product orders, it arrives in the administration interface with a pending status. When the order is processed, the status of order changes according to the current state in the processing workflow. Once the invoice is created for the order, the status changes from pending to processing status. Next, it creates shipment for an order which changes the status from pending to complete status.

**Order Status in Magento**

The following screen shows the order process in Magento:

- **New Order**: Customer places an order into the Magento store.
- **Pending**: Pending orders are brand new orders that have not been processed. These orders need to be invoiced and shipped.
- **Pending PayPal**: These are the brand new orders that have been not cleared by PayPal.
- **Processing**: When you invoice the order, Magento will change the state to ‘processing’.
- **Cancelled**: This status is called when the customer visits the store and cancels an order or else if the order has been not paid for.
Order Shipped: Order shipment is generated when an order status changes from pending to complete.

On Hold: Order is put on hold when more information from the user is required before the purchase is processed.

Complete: When order is marked as complete, it has been both invoiced and shipped.

The following steps describe how Magento order life cycle works:

Step (1): Login to your Magento Admin Panel.

Step (2): Go to Sales menu and click on the Orders option.

Step (3): Next, you can see some orders list. Click on the View link to see the order's information.
**Step (4):** You will see the customer's account information and billing address. When you scroll down, you will see the history status under the **Comments History** section.
**Step (5):** Click on **Track** and scroll down to the lower portion of the page. Under the **Items** table, go to **Track** column which provides tracking options like Backordered, Received or Returned when you click on the dropdown menu. Select your option and click on the **Submit Changes** button to save your settings.
Magento provides various options for product orders and also reports of the ordered products.

**Step (1):** Login to your Magento Admin Panel.

**Step (2):** Go to **Report** menu and click on **Orders** under **Sales** option.

**Step (3):** The **Total Ordered Report** has some settings as shown in the following screen.

- **Match Period To:** It matches the product ordered date with order created data and updated date.
- **Period:** It specifies the period such as day, year, and month.
- **From and To:** These options display the date of order, i.e. they specify the date on which the order was created date and the date up to which it is valid.

- **Order Status:** It specifies the status of the order.

- **Empty Rows:** If you don’t want to specify empty rows, then set Empty Rows field to No.

- **Show Actual Values:** If you don’t want to display actual values of product, then set the field to No.

**Step (4):** You can get a report of the order by clicking on the **Show Report** button and you can also save your ordered details in the **CSV** file format by clicking on the **Export** button.
This chapter describes how Magento manages e-mails, how you can edit e-mail content, set e-mails from and to parameters, etc. Magento has built-in functionality called **Sales Emails** which manages the e-mails sent to customers when the order is processed.

The following steps describe how to set up order e-mails in Magento:

**Step (1):** Login to your Magento Admin Panel.

**Step (2):** Go to the **System** menu and click on **Configuration** option.
**Step (3):** On the left side of the navigation bar, go to **Sales** section and click on the **Sales Emails** option.

**Step (4):** Select the scope under **Current Configuration Scope** for which you want this configuration to apply.
**Step (5):** Under Sales Emails page, expand the **Order** panel which contains the following settings.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Enabled</strong></td>
<td>Set this option to Yes to enable new order confirmation e-mails to be sent.</td>
</tr>
<tr>
<td><strong>New Order Confirmation Email Sender</strong></td>
<td>Using this field, select the e-mail address which is to be used for sending new order confirmation.</td>
</tr>
<tr>
<td><strong>New Order Confirmation Template</strong></td>
<td>It selects the template which is to be used for the order confirmation e-mails, sent to the registered customers.</td>
</tr>
<tr>
<td><strong>New Order Confirmation Template for Guest</strong></td>
<td>It selects the template which is to be used for the order confirmation e-mails, sent to the guest customers.</td>
</tr>
<tr>
<td><strong>Send Order Email Copy To</strong></td>
<td>It specifies the e-mail address to which copy of the new order confirmation e-mail is sent.</td>
</tr>
<tr>
<td><strong>Send Order Email Copy Method</strong></td>
<td>You can send copy of the new order confirmation e-mail to the additional e-mail address using BCC or separate e-mail.</td>
</tr>
</tbody>
</table>

**Step (6):** After done with the settings, click on the **Save Config** button to save your changes.
Magento allows to create an order from a shopping cart. You can create an order in Magento store as described in the following steps.

**Step (1):** Login to your Magento Admin Panel

**Step (2):** Go to **Sales** menu and click on the **Orders** option.

![Image showing the Admin Panel](Image)

**Step (3):** Click on the **Create New Order** button to create new order in the Magento store.

![Image showing the Create New Order button](Image)

**Step (4):** It will display the list of customers under New Order section. If there are no records, then click on **Create New Customer** button.

![Image showing Create New Customer button](Image)
**Step (5):** Moving forward, you need to select your desired store to proceed to the next step.

![Magento Step (5)](image)

**Step (6):** Under **Items Ordered** section, it will display the ordered products information. If there are no ordered items, then click on the **Add Products** button to select the product which you want to order.

![Magento Step (6)](image)

**Step (7):** Select the product from the list which you want to order and click on the **Add Selected Product(s) to Order** button.

![Magento Step (7)](image)

**Step (8):** Scroll down and select the **Payment Method** and **Shipping Method** for your order.

![Magento Step (8)](image)
**Step (9):** After selecting your payment method and shipping method, click on the **Submit Order** button to save your order.

![Submit Order button](image)

**Step (10):** To see the status of the order, go to **Sales** menu and click on the **Orders** option. To see the details of the product, click on the **View** link as shown in the following screen.

![Order Details](image)
**Step (11):** Now you can see the account information and billing address of the customer. Scroll down, you will see the status of the product and comment area under the **Comments History** column.
Order management is an important process which allows businesses to run smoothly and keeps customers happy, making them more likely to visit your site again in the future. When the customer completes the order process, you will receive a new order notification mail.

The following steps describe how to manage orders in Magento:

**Step (1):** Login to your Magento Admin Panel.

**Step (2):** Go to **Sales** menu and click on the **Orders** option.

![Magento Manage Orders](image)

**Step (3):** It will display the list of orders placed in the store. Click on any of the orders.
**Step (4):** Next, it will show the order form. It includes information regarding the order such as the account information and billing address of the customer, payment information, status of the product and comment area under the Comments History column, etc.
Step (5): You can see the e-mail has been sent to the customer regarding the product order. Create the invoice for the order and alert the customer that the order is accepted by clicking on the Invoice button.

![Invoice Button](image1)

Step (6): Scroll down the invoice page and click on the Submit Invoice button.

![Submit Invoice Button](image2)
Step (7): Now the order will get processed and gets accepted into the system. Alert the customer about the product order by sending an e-mail. Type your comment in the text area and click on the Submit Comment button.

Step (8): The product is shipped and you need to update the customer on their order status. Enter the completed order into the system and notify the customer regarding shipping of your product by clicking on the Ship button.
**Step (9):** Under **Shipping Information** section, click on the **Add Tracking Number** button and choose your **Carrier** from the dropdown menu and put the tracking number of your order and click on the **Submit Shipment** button.

**Step (10):** It will notify the customer regarding status of the product shipping. Type your comments and click on the **Submit Comment** button to notify the customer.
Part 4: System Setup
It is necessary to record customer accounts and customer registration process in Magento. This chapter describes the customer settings as shown in the following steps.

**Step (1):** Login to your Magento Admin Panel.

**Step (2):** Go to **System** menu and click on the **Configuration** option.
**Step (3):** Click on the **Customer Configuration** option under **CUSTOMERS** section on the left side navigation bar.

**Step (4):** Expand the **Account Sharing Options** panel which includes the field **Share Customer Accounts** that is set to **Per Website** value. This determines that customers can use this account to login only on particular website. Next, expand the **Online Customers Options** panel and set the interval time for **Online Minutes Interval** option. By default, it is empty and value is set to 15 minutes.
**Step (5):** The Create New Account Options panel contains following fields. Fill up all the fields as provided in the screen and click on **Save Config** button to save your changes.
Step (6): The **Password Options** panel has some settings:

- **Forgot Email Template:** It helps to reset the customer's password, if the customer’s forgot their password.

- **Remind Email Template:** It changes the template for particular e-mail transaction.

- **Forgot and Remind Email Sender:** It selects an e-mail address which sends password message to the customer which are displayed from the fields of **Forgot and Remind mail Template**.

- **Recovery Link Expiration Period:** It specifies for how many days the recovery link will be active for resetting password.

Step (7): The **Login Options** panel has an option called **Redirect Customer to Account Dashboard after Logging in** which is set to Yes by default. If you set it to No, customers will stay on the current page. After done with the settings, click on the **Save Config** button to save your changes.
Google Analytics, is Google's web analytics service for those who are actively managing websites. It adds analytics to Magento store including E-commerce tracking and conversions of their websites. It allows administrators to monitor their website's traffic.

The following steps help you set up Google Analytics in Magento store:

**Step (1):** Login to your Magento Admin Panel.

**Step (2):** Go to the **System** menu and click on the **Configuration** option.
Step (3): On the left side of the navigation bar, click on the Google API option under Sales section.

![Magento Configuration Page]

Step (4): Expand the Google Analytics panel which shows some settings such as:

- **Enable** option should be set to Yes to activate payment method
- **Type** option provides two types: Google Analytics and Universal Analytics
- **Account Number** accepts your account number
- **Enable IP anonymization** option should be set to Yes.
After done with the settings, click on the **Save Config** button to save the changes that you have made.
You can use Magento to build for more user and search engine friendly URLs as shown in the following steps.

**Step (1):** Login to your Magento Admin Panel.

**Step (2):** Go to **System** menu and click on the **Configuration** option.

**Step (3):** On the left side navigation bar, click on the **Web** option under **General** section.
Step (4): When page loads, expand the **Search Engines Optimization** option. Set the option **Use Web Server Rewrites** to **Yes** to enable the Search Engine Friendly (SEF) URLs in Magento. If you select the option as **No**, then Magento will not use SEF URLs. Click on the **Save Config** button and your Magento SEF URLs will be enabled.
28. Magento – Set Up Youtube Video

In this chapter, we will learn how to set up YouTube videos to your Magento store as shown in the following steps.

**Step (1):** Login to Magento Admin Panel.

**Step (2):** Go to CMS menu and click on Pages option.

**Step (3):** You will get the list of pages where you can create a new page or edit an existing page. Here we have selected the **About Us** page to add YouTube video in it.
Step (4): On the left menu, click on the **Content** option which displays the information of the page. The **Show/Hide Editor** button can be used to hide or show the editor.
Step (5): Open the www.youtube.com website and find the video you want to add. There is a Share button under the video, click on it.

Step (6): Under the Share button, click on the embed link. It opens a small text area, then copy the code.
Step (7): Go to your page and paste the code which was copied from the embed field and click on the Save Page button.

Step (8): Open your website and you can see the video on the page you just edited.
Social networks such as Facebook, Twitter and Google Plus have become powerful for promoting the web shops. Facebook provides "Like" button which allows users to share contents of the products across the web.

The following steps show you how to add Facebook **Like** button for your Magento products:

**Step (1):** Go to developer site of Facebook [https://developers.facebook.com/docs/plugins/like-button](https://developers.facebook.com/docs/plugins/like-button) and click on **Get Code** button.

![Facebook Like button page](image-url)
**Step (2):** When you click on the **Get Code** button, a window will get appear as shown in the following screen.

Your Plugin Code

1. Include the JavaScript SDK on your page once, ideally right after the opening `<body>` tag.

```
<div id="fb-root"></div>
<script>(function(d, s, id) {
  var js, fjs = d.getElementsByTagName(s)[0];
  if (d.getElementById(id)) return;
  js = d.createElement(s); js.id = id;
  js.src = '//connect.facebook.net/en_US/sdk.js#xfbml=1&version=v2.3';
  fjs.parentNode.insertBefore(js, fjs);
}(document, 'script', 'facebook-jssdk'));</script>
```

2. Place the code for your plugin wherever you want the plugin to appear on your page.

```
<div class="fb-like" data-href="https://developers.facebook.com/docs/plugins/
  data-layout="standard" data-action="like" data-show-faces="true" data-share="true">
</div>
```

**Step (3):** Open the file, i.e., `/app/design/frontend/base/default/template/productalert/product/view.phtml` in the Magento and paste the below code around the line 50.

```
<div class="fb-like" data-href="https://developers.facebook.com/docs/plugins/
  data-layout="standard" data-action="like" data-show-faces="true" data-share="true">
</div>
```
**Step (4):** Go to the **System** menu and click on the **Cache Management** to refresh the cache.

**Step (5):** Under **Cache Storage Management** section, select the items from the Cache Type column for which you need to refresh the cache. Select the **Refresh** option from the **Actions** field on the right hand corner and click on **Submit** button to refresh the cache.

**Step (6):** After refreshing cache, logout from your admin panel and re-login. Refresh your product view page to see the Facebook like button.
You can translate Magento default frontend through csv file as specified below:

Look into your (root)/app/locale/en_US folder. There you have .csv's that do the translating. The `Mage_Catalog.csv` contains the translations for all the files that use the `/app/code/core/Mage/Catalog/classes` and `/app/design/frontend/default/default/locale/en_US/translate.csv` template files. Here, you'll also find `Mage_Adminhtml.csv`, which handles most of the admin translations.

If Magento translation fails, you should check the settings for store in admin panel, to see if there is something wrong with your locale.

- On the Magento Admin Panel, go to **System** menu and click on the **Configuration** option.
- Select the Configuration Scope of the store view in the upper left corner.

On the General configuration page, expand the **Locale Options** section.

Under **Locale Options**, set Locale to the new language for the store view and click the **Save Config button**.
This chapter describes how to install new Magento theme on your store's frontend. You can use Magento Connect to install theme. For installing theme, you need to get the extension key and then use it for the installation through Magento Connect.

We will see how to get extension key by using the Magento theme.

**Step (1):** Go to Magento theme page and then click on the **Install Now** button. You need to register a new account or login with an existing account to get extension key.

**Step (2):** Check, **I Agree to the Extension license agreement** option and click on the **Get Extension Key** button.
Step (3): Click the Select Key button and copy the extension key.

Step (4): Now login to your Magento Admin Panel and go to the System --> Magento Connect --> Magento Connect Manager option.

Step (5): Again, it will ask for login, enter your credentials to redirect to Magento Connect Manager window.
Step (6): Now under Extensions section, paste the Extension Key (that you copied in step 2) and click on Install button. It will display status as "Ready to install" and click on Proceed button to install the language.

Step (7): It will check for dependencies of packages and display the message as Cache cleaned successfully.
**Step (8):** Refresh the page by clicking on the **Refresh** button and go to an admin dashboard page by clicking on **Return to Admin** link.

![Magento Connect Manager](image)

**Step (9):** To activate the theme on your store's frontend, go to **System** menu and click on the **Design** option.

![Dashboard](image)

**Step (10):** To add a new theme, click on the **Add Design Change** button.

![Design](image)
**Step (11):** Select the theme from the **Custom Design** dropdown menu and click the **Save** button to apply your theme for the store.
Magento allows changing the default title of your website. The following steps describe how to change the title of Magento store.

**Step (1):** Login to your Magento Admin Panel.

**Step (2):** Go to the **System** menu, click on the **Configuration** option and select the **Design** option under the **General** section.

**Step (3):** Expand the **HTML Head** panel and you can edit the title in Default Title field. After done with the settings, click on the **Save Config** button.
Layout files are useful in rendering front pages of Magento. Using Magento, it’s easy to change the layout of pages.

This chapter describes how to create page layout in Magento:

**Step (1):** Login to your Magento Admin Panel.

**Step (2):** Go to CMS menu and click on the **Pages** option to list out all the pages of Magento. Select the page for which you want to change the layout.
**Step (3):** Click on the **Preview** button to see structure of the page.

**Step (4):** To see the layout of the page, click on the 3 columns option under Layout tab. It will open the **Page Information** section. Click on the **Design** option. Select the option as per your choice in the Layout field and click the **Save Page** button to apply the changes.
Step (5): When you click on the **Preview** link, it will display the changed layout of the page.
This chapter shows how to create new pages in Magento by using the following steps:

**Step (1):** Login to your Magento Admin Panel.

**Step (2):** Go to CMS menu and click on the Pages option.

![Dashboard](image1)

**Step (3):** It will list some of the existing pages as shown in the following screen. If you want to add new page, click on the Add New Page button.

![Manage Pages](image2)
Step (4): Next, specify the title for the page using Page Title field, enter the page URL identifier using URL Key option. Enable the page using Status dropdown menu and click on the Save and Continue Edit button.

![New Page](image)

Step (5): When you save the page, it will go to Content section asking heading for the page using Content Heading field and page content. Click on Save and Continue Edit button to proceed to the next step.

![Page Information](image)
Step (6): After done with the content section, you can design the page by using Design section which has two sections i.e. Page Layout and Custom Design.

The Page Layout section contains a Layout option which allows to select a layout as per your choice and Layout Update XML option inserts the XML code.

![Page Layout](image)

The Custom Design section contains fields such as:

- **Custom Design From** and **Custom Design To** are used to set start date and end date for the design change

- **Custom Theme** option allows to select theme for your page using dropdown menu

- **Custom Layout** option allows to select a layout as per your choice

- **Custom Layout Update XML** option inserts custom XML code
Step (7): The Meta Data section contains Keywords field which sets keyword for a page name and the Description field specifies the description the given page. Click the Save Page button to save your page.
Step (8): Now you can see the page created in the list.
Magento CMS (Content Management System) section is used to manage all website pages. It is a way of promoting the products by providing valuable information to the customers and increases search engine visibility. It can be used to create rich content for your web store.

The CMS section contains following topics:

**Pages**

You can create or set up new pages in Magento. You can include text, images, blocks of content, etc. For more information on setting up new pages, you can refer this link [Setting up New Pages](#).

**Static Blocks**

Static block is a piece of content that can be used anywhere in the pages. Magento allows creating blocks of content that can be used through the store and can be added to any page or another block. To create static blocks, follow these steps:

**Step (1):** Go to CMS menu and click on the Static Blocks option.
**Step (2):** You can create a new block by clicking on the **Add New Block** button.

![Static Blocks](image)

**Step (3):** Next, it will open a window for creating new block as shown in the following screen.

![New Block](image)

The page contains the following fields:

- **Block Title:** It adds the title for the block.
- **Identifier:** It assigns identifier to block which uses lower case characters, underscores, etc.
- **Status:** Set this field as "Enabled" to make block visible.
- **Content:** It includes content of the block and uses editor to format text, creates links, tables, images, etc.

After filling all the fields, click the **Save Block** button.

**Widgets**

Widget allows displaying a wide range of content and placing it at block references in the store. They can be inserted into pages, blocks or they can have blocks inserted into the widget.
You can create the widget by using following steps:

**Step (1):** Go to CMS menu and click on the Widgets option.

![CMS menu](image1.png)

**Step (2):** To create new widget, click the Add New Widget Instance button.

![Add New Widget Instance](image2.png)

**Step (3):** Under the settings section, select the Type of the widget and Design Package/Theme and click the Continue button.

![Settings](image3.png)
Step (4): Next, it displays the **Frontend Properties** and **Layout Updates** sections.

In the **Frontend Properties** section, fill the following details:

- **Widget Instance Title**: It specifies the title for the widget. It is only for internal use and won't be visible to the customers.

- **Sort Order**: It is used to specify the order of the block when listed with others.

In the **Layout Updates** section, click the **Add Layout Update** button and set the **Display On** field to type of category where you want the widget to appear. It can be set with the other options as shown in the following screen.

In the **Block Reference** list, select the section of your page layout where you want the widget to appear and set the template with **Link Block Template** or **Inline Template**.

Step (5): Click **Save and Continue Edit** button to save your changes and continue editing. Next, it will open **Widget Options** panel with the following options.
- **Anchor Custom Text:** It adds custom text for the widget.
- **Anchor Custom Title:** It adds custom title for the widget.
- **CMS Page:** It allows selecting the CMS page with the widget.

After done with the settings, click on the **Save** button.

**Polls**

Polls are used to get customer’s opinions and preferences. The poll results appear immediately after response is submitted.

You can create the poll by using the following steps:

**Step (1):** Go to **CMS** menu and click on the **Polls** option.

**Step (2):** Next, it will open a Poll Manager window where you can add new poll as shown in the following image.
Step (3): In the Poll Information section, enter the Poll Question and you can set the Status to "Open" or "Closed".

![New Poll](image)

Step (4): In the Poll Answers section, do the following:

![New Poll](image)

In the Answer Title field, enter the answer as you want it to appear in the poll for which you had entered the poll question and to weight an answer, enter a number in the Votes Count field. When complete, click the Save Poll button.
Creating newsletter is a part of communication process with the buyers. Customers can subscribe to newsletters using Magento. Customers can sign up for the newsletter while creating a new customer account which contains checkbox for sign up. For creating newsletters, you need to enable newsletter option in your Magento to make sure that customers have confirmed to receive newsletter.

**Step (1):** To enable newsletter, go to **System -> Configuration** and click on Advanced option under **Advanced** section on the left side navigation bar.
Step (2): Expand the Disable Modules Output panel, look for Mage_Newsletter option and Enable it.
You can configure the newsletter settings as described in the following steps:

**Step (1):** Login to your Magento Admin Panel.

**Step (2):** Go to **System** menu and click on the **Configuration** option.

**Step (3):** On the left side navigation bar, go to **Customer** section and click on the **Newsletter** option.
Step (4): Then, expand the Subscription Options panel, select the Yes option for Need to Confirm field. Yes option specifies that customers want to subscribe to newsletter. Click on the Save Config button to save your changes.

Creating Newsletter Template

Before sending a Newsletter, you need to create a newsletter template. To create a newsletter template, follow these steps:

Step (1): Login to your Magento Admin Panel.

Step (2): Go to Newsletter -> Newsletter Templates and click on the Add New Template button.
Step (3): It will display some settings related to newsletter template. Fill up all the necessary fields and click on the **Save Template** button as shown in the following screen.

- **Template Name:** It is the name for your template.
- **Template Subject:** It specifies the subject of the e-mail which would be received by the customer.
- **Sender Name and Sender Email:** These fields specify the name and e-mail of the sender which is to be sent to customers.
- **Template Content:** It provides text editor and allows entering HTML code of the body of the e-mail.
Send Newsletter

You can send the newsletters to your subscribers by queuing the template as shown in the following steps.

**Step (1):** Go to Newsletter menu and click on the **Newsletter Queue** option which displays the newsletter templates.

![Newsletter Queue](image)

**Step (2):** For sending the Newsletter to subscribers, go to **Newsletter -> Newsletter Templates** and select the **Queue Newsletter** option from the dropdown menu on the bottom right side of Newsletter Template page.

![Queue Newsletter](image)
**Step (3):** The page that pops up provides some of the options as shown in the following screen.

- **Queue Date Start:** It selects the date when you are going to start sending the newsletter.
- **Subscribers From:** It shows both former and current subscribers list.
- **Subject:** It specifies the subject of the e-mail.
- **Sender Name and Sender Email:** These fields specify the name and e-mail of the sender which is to be sent to customers.
- **Message:** It provides text editor and allows entering message of the e-mail.

Fill up all the fields and click on **Save Newsletter** button on the top right corner to send newsletter to subscribers.
Part 5: Optimization
Magento is a content management system that is commonly known to be performance intensive. Optimizing the speed of your Magento allows customers to have the best user experience while shopping in your E-commerce store.

**Environment Optimization**

Based on the additional configurations of the server environment, the hosting site providers speed up your store.

Following are the tips to optimize Magento environment.

- It uses complex database, so that it needs to be run on dedicated servers.
- Magento application can be optimized by using cloud computing.
- Merge your JavaScript and CSS files, which reduces the load time dramatically since it is loading only one merged file.
- Proper MySQL configuration is one of the most important aspects in terms of performance.
- Always upgrade to the latest Magento version as it offers better performance.
- Use a web application accelerator which can speed up your Magento store by 80%.

**Configuration Optimization**

Magento has built-in tools that helps to optimize its performance. These must be properly configured and matched with your site's unique requirements. Following are the tips to optimize Magento configuration.

- To speed up Magento performance, don't run MySQL and web server on the same machine.
- Do not host files on your web server that you do not use.
- Optimize of session storage.
- Enable Magento flat catalog. (Magento uses a complex and resource-intensive Entity Attribute Value [or EAV] based catalog). After initial catalog establishment, enabling the flat catalog can dramatically improve database query time.
- Identify and disable unused Magento modules.
Code Optimization

Code influences the speed of your site. The testing tools help to gain insight into the specific process.

Few tips for Code Optimization are:

- Remove unused or unnecessary code processes.
- Optimize Magento performance, by compressing and aggregating JavaScript and CSS files.
- Compress all site images to optimal web image sizes.
- Identify bottlenecks (processes that causes the entire process to slow down or stop) both in front-end and back-end.

Frontend Optimization

These modules are used to improve the performance of Magento shopping experience and you can also reuse the modules. This speeds up the performance of the Magento front-end.

The following points illustrate how to optimize Magento front-end performance:

- Use the latest version of PHP, so that you can perform front-end operation much better and faster. The newest released version may cause errors, so carefully read the release notes and check out the new version.
- Use clean database to improve the performance of Magento. The database logs need to be cleared regularly. The database stores the automatically created logs to keep track of record session and interaction.
- Magento caching should be enabled. This helps to load your website faster and reduces the direct requests to the server for files.
- Turn off unused modules so it reduces the amount of resources added to each page. This can be one of the Magento admin panel. The XML files are used to speed up the front-end performance of Magento.
The feature called **Profiler** which plays an important role in Magento development and can be used for debugging. It specifies blocks of code which makes loading of the page slow. Magento profiler reports the time taken by block of code to execute, number of times the block of the code was executed and memory used by it while rendering a Magento web page.

To enable the **Profiler**, follow these steps:

**Step (1):** Login to your Magento Admin Panel.

**Step (2):** Go to **System** menu and click on the **Configuration** option.
**Step (3):** On the left side of the navigation bar, go to **Advanced** section and click on the **Developer** option.
Step (4): Expand the **Debug** panel and enable the profiler by setting it to Yes and click on the **Save Config** button.

Step (5): At this point the profiler is enabled, but you need to tell the profiler to what profile. So go to root index.php file of your Magento installation and look for the line `#Varien_Profiler::enable();` and uncomment it, i.e. remove the hash sign.

Step (6): Now go to any of your pages, you should see the output in the footer area of the page like shown in the following screen.
One of the most time consuming process of the Magento store is its interaction with the database. Optimizing Magento Database is an important task to maintain the Magento site. Magento saves a lot of database because of tracking. The E-commerce system must have a tracking module which shows information when something goes wrong with their order.

Following are some tips to improve the performance of database:

- Unused data must be cleaned up regularly for better performance.
- Optimize database queries.
- Configure setting and limits of the database server (e.g. memory setting, query cache, sort buffer optimization).

You can optimize Magento database log cleaning as shown in the following steps:

**Step (1):** Login to your Magento Admin Panel.

**Step (2):** Go to System menu and click on the Configuration option.
**Step (3):** On the left side of the navigation bar, go to **Advanced** section and click on the **System** option.

**Step (4):** Expand the **Log Cleaning** panel, change “Enable Log Cleaning” to Yes option and click the **Save Config** button.
Magento is one of the search engine friendly systems. It is an essential component of a running web-based business and important form of marketing online. To make e-store more visible to the potential buyers, the website admin needs to enhance e-store ranking in search engine results. Customers will like your site if your site is clean, clear and easy to navigate.

Magento allows managing URLs, creating images and handling links that makes easy use of SEO, so that your site can easily be indexed in search engines. After installing Magento and setting up your store, you can start optimizing your site for search engines from the web configuration menu.

The following steps describe how to set up Search Engine Optimization (SEO) in Magento:

**Step (1):** Login to your Magento Admin Panel.

**Step (2):** Go to the **System** menu and click on **Configuration** option.
**Step (3):** On the left side of the navigation, go to the **General** section and click on the **Web** option.

![Magento Configuration Screen](image)

**Step (4):** Expand the **URL Options** panel, set the **Add Store Code to URLs** option to **No** so that store codes are not added to URLs.

**Step (5):** In the **Search Engine Optimization** panel, set the **Use Web Server Rewrites** option to **Yes** to generate more search engine friendly and readable URLs. Click on **Save Config** button to save your changes.

![Web Configuration Options](image)
Step (6): To set the default page title, change setting of default robots, go to System - > Configuration and under General section and click on the Design option.

Step (7): Expand the HTML Head panel, write the title and description in the Default Title and Default Description for your pages, change the Default Robots field to INDEX, FOLLOW option so that search engines can index your website and show it in search results. When you are done, click Save Config button.
**Step (8):** To avoid duplications in URLs, go to the **System -> Configuration** and under **Catalog** section, click on the **Catalog** option.

![Magento Configuration Screenshot]

**Step (9):** Expand the **Search Engine Optimizations** option and set the **Use Categories Path for Product URLs** option to **No**. To prevent Magento from generating duplicate content when you want to show the same product in multiple categories, set both **Canonical Link Meta Tag** fields to **Yes**. After done with the settings, click the **Save Config** button.

![Magento Search Engine Optimizations Screenshot]