



DRUPAL COMMERCE 101

Create your first E-commerce store

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Chapter 1

Installation

There are two ways to install Drupal Commerce:

- **Commerce Kickstart method:** [Commerce Kickstart](#) is an independent Drupal installation profile that can quickly set up e-commerce functionality on your machine. It comes packaged with Drupal core and all the modules required to make e-commerce a success on your site. If you are creating a new e-commerce store selling products from scratch, by all means go for it. But if you have an existing Drupal site to which you want to add e-commerce functionality, then this method will not work. Also if you want to learn how to configure Drupal Commerce, look at the manual method below.
- **Manual method:** You will have to individually download, install and enable modules from drupal.org. This gives you a level of control over the look and feel of your basic e-commerce site and is a much better platform for learning. Also if you are adding e-commerce functionality to your existing Drupal site, then this is the only possible way to do so. In this book, we are going to use the manual method in this series of tutorials.

Here are the modules you should install on your server:

1. [Drupal Commerce](#)
2. [Address Field](#)
3. [Ctools](#)
4. [Entity API](#)
5. [Rules](#)
6. [Views](#)

You could use drush to install the above modules. In this book, we'll show you the manual way.

First, download the above modules to Drupal's `sites/all/modules` folder. Then go to the Administration panel and enable all newly downloaded modules. Here is a snapshot of us enabling the Commerce module:



▼ COMMERCE

| ENABLED | NAME | VERSION |
|-------------------------------------|----------|--------------|
| <input checked="" type="checkbox"/> | Cart | 7.x- 1.11 |
| <input checked="" type="checkbox"/> | Checkout | 7.x- 1.11 |
| <input checked="" type="checkbox"/> | Commerce | 7.x- 1.11 |

Figure 1.1:



After you have enabled all necessary modules, you will notice a change in the top-level main menu. A new link has been added – “**Store**”.



Figure 1.2:

Clicking “**Store**” will reveal a page as shown below:

Home » Administration

Store •

Customer profiles
Manage customer profiles and profile types in the store.

Orders
Manage orders in the store.

Products
Manage products and product types in the store.

Configuration
Configure settings and business rules for your store.

Figure 1.3:

This is where your store’s configuration and administration will take place.



Chapter 2

Product Management

One of the keys to running a successful store rests on how its products are added and managed. In this chapter, you'll learn how to:

- add a product.
- show the product on the page using product display.
- add an SKU for each product variation and let customers select the product variation while adding the product to cart.
- add metadata to the product.
- manage product inventory.



2.1 Add a Product

We have a basic online store in place. Let's start by adding a product to this store. Clicking on “**Products**” link will reveal a new page:

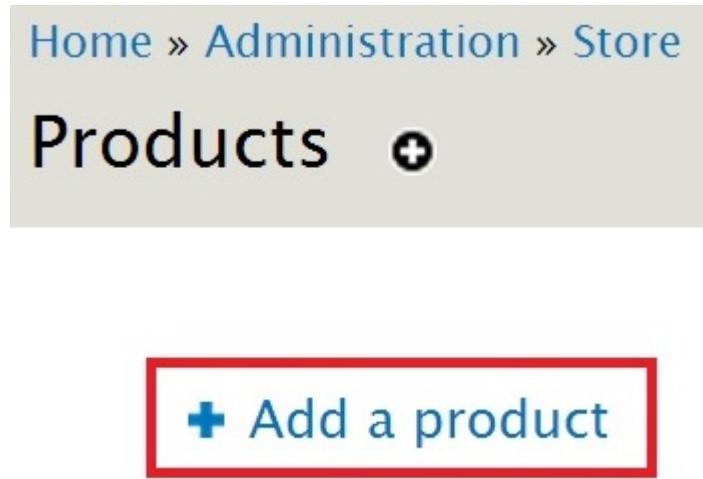


Figure 2.1:

Click “**Add a product**” to get the following screen:



Home » Administration » Store » Products » Add a product

Create Product

Product SKU *

Supply a unique identifier for this product using letters, numbers, hyphens, and underscores.

Title *

Price *

 USD

Status *

Active

Disabled

Disabled products cannot be added to shopping carts and may be hidden from search results.

 **CHANGE HISTORY**

Save product **Save and add another** **Cancel**

Figure 2.2:



Here are the fields you will have to fill:

- **Product SKU:** This is the unique identifier for the product. It would be great if you follow a particular nomenclature while assigning this field. To demonstrate, we have chosen RC-Prod-0001.
- **Title:** Enter your product's name. We have chosen 3-LED Flashlight. This is the name that will be visible to your customers.
- **Price:** Provide the exact price of your product. We have given a random price – \$5.40.
- **Status:** Specify whether the product is active or disabled.
- **CHANGE HISTORY:** This optional field allows you to provide details on every update made to the product.

Click “**Save Product**” to save the product’s details. The product will then be successfully added and will be displayed as shown below:

| SKU | ▲ | TITLE | TYPE | PRICE | STATUS | OPERATIONS |
|--------------|---|------------------|---------|--------|--------|---|
| RC-Prod-0001 | | 3-LED Flashlight | Product | \$5.40 | Active | edit delete |

Figure 2.3:

The next section will explain how to make sure your products are visible on the website through a product display.



2.2 Set Up Product Display

There is a big difference between content created in Drupal and the product created using Drupal Commerce. All recent content added through Drupal core can be viewed in the Content tab on /admin/content URL. But you will notice that the products you add will not appear in this list. That's because the content is stored in the `node` table, while the products are stored in `commerce_product` table. Products are custom entities and not nodes. By default, Drupal Commerce does not provide any URL to view a product. For the product to be visible at a URL, you'll first need to create a Product Display content type and add the product to it.

Let's first create a new content type that can represent product display.

Click “Structure” -> “Content types”:

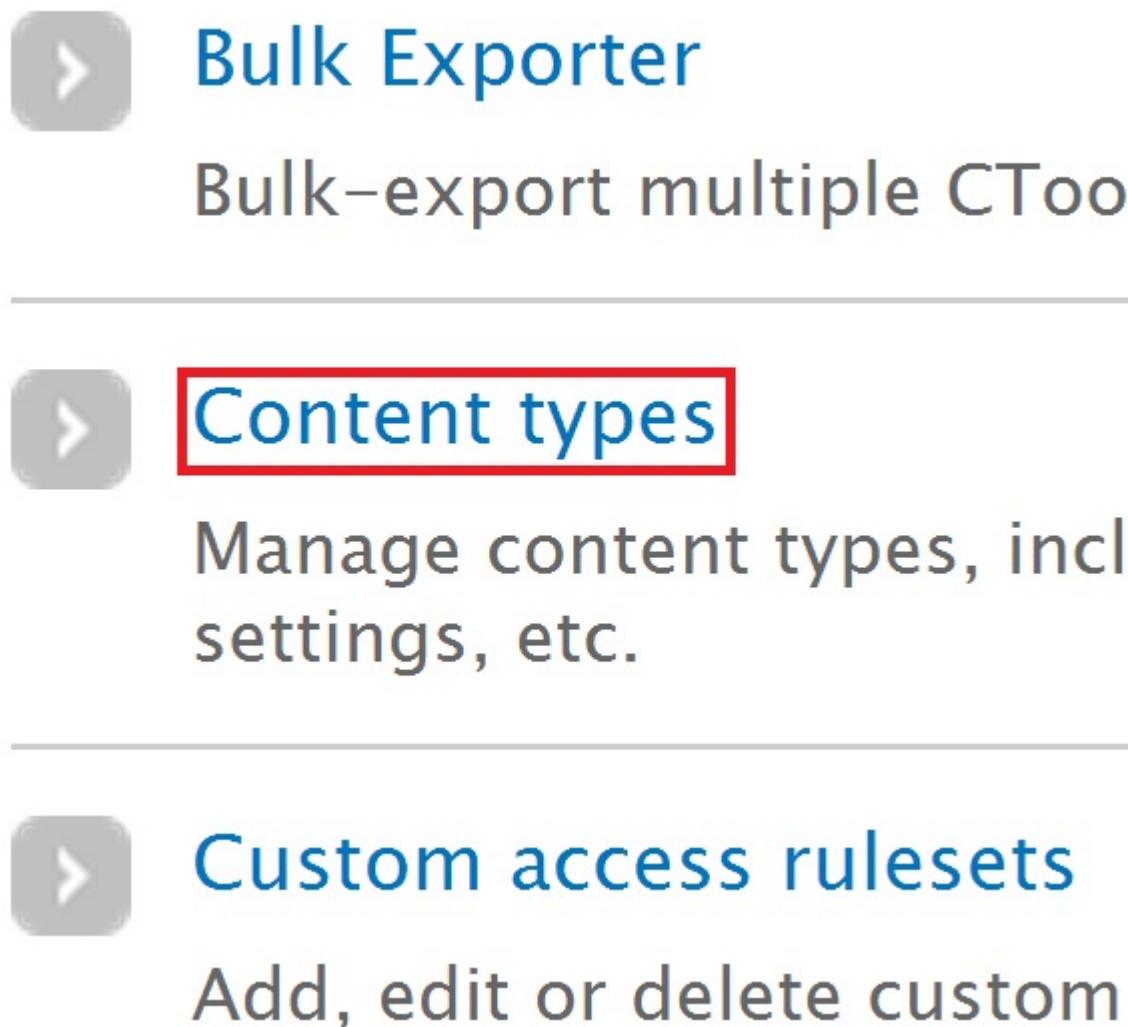


Figure 2.4:



Click “Add content type”:

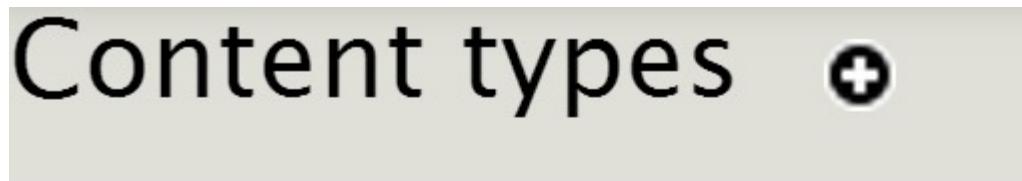


Figure 2.5:

The screen below is where you will be able to add a new content type. We have chosen “Flashlight Page Display” as the title because we want the display to be associated with the Flashlight products created above. In general, you want to create one content type per product type so that you can expose different product attributes based on product type. Type in a description if you want to.

You can use this new content type as a page display for multiple products uploaded in the future.

Click “Display settings” and uncheck the box against “Display author and date information”.



Content types +

Individual content types can have different fields, behaviors, and permissions assigned to them.

Name *

Flashlight Page Display

Machine name: flashlight_page_display [Edit]

The human-readable name of this content type. This text will be displayed as part of the list on the *Add new content* page. It must be unique.

Description

This content type will be specifically used to display flashlights!

Describe this content type. The text will be displayed on the *Add new content* page.

| | |
|---|---|
| Submission form settings Title | <input type="checkbox"/> Display author and date information. Author username and publish date will be displayed. |
| Publishing options Published , Promoted to front page | |
| Display settings Don't display post information | |
| Comment settings Closed, Threading , 50 comments per page | |
| Menu settings | |

Save content type **Save and add fields**

Figure 2.6:

After this, click “**Comment settings**” and select “**Closed**” from the dropdown for “**Default comment setting for new content**”:



| | |
|--|--|
| Submission form settings | Default comment setting |
| Title | <input style="border: 2px solid red; padding: 2px; width: 100px; height: 30px;" type="button" value="Closed"/> |
| Publishing options | <input checked="" type="checkbox"/> Threading |
| Published , Promoted to front page | Show comment replies in |
| Display settings | Comments per page |
| Don't display post information | <input style="border: 1px solid gray; padding: 2px; width: 50px; height: 30px;" type="button" value="50"/> |
| Comment settings | <input checked="" type="checkbox"/> Allow comment title |
| Closed, Threading , 50 comments per page | <input checked="" type="checkbox"/> Show reply form on the s |
| Menu settings | |

Figure 2.7:

The reason why we made these changes to “**Display settings**” and “**Comment settings**” is because a Product’s display page is not like any ordinary content page. Ideally, most product pages don’t have comments or author information displayed. But if you want users to add reviews to your page, then don’t make any changes to “**Comment settings**”.

Click “**Save and add fields**” to associate the product with this display. Fill in the following:

- **Add new field:** Type in Product
- **FIELD TYPE:** Choose Product Reference to signify the type of product to store
- **WIDGET:** Select Autocomplete text field from dropdown to ensure the product’s name can be searched and found.



| LABEL | MACHINE NAME | FIELD TYPE | WIDGET | OPERATIONS | | | | | | | | |
|--|---|--|--|---|--------------------------------------|---|--|--|----------------|--------------------------------|------------------------|--------------------------------|
| ⊕ Title | title | Node module element | | | | | | | | | | |
| ⊕ URL path settings | path | Path module form elements | | | | | | | | | | |
| ⊕ Body | body | Long text and summary | Text area with a summary | edit delete | | | | | | | | |
| ⊕ Add new field <table> <tr> <td><input type="text" value="Product"/></td> <td>field_product [Edit]</td> <td><input type="text" value="Product reference"/></td> <td><input type="text" value="Autocomplete text field"/></td> </tr> <tr> <td>Label</td> <td></td> <td>Type of data to store.</td> <td>Form element to edit the data.</td> </tr> </table> | | | | | <input type="text" value="Product"/> | field_product [Edit] | <input type="text" value="Product reference"/> | <input type="text" value="Autocomplete text field"/> | Label | | Type of data to store. | Form element to edit the data. |
| <input type="text" value="Product"/> | field_product [Edit] | <input type="text" value="Product reference"/> | <input type="text" value="Autocomplete text field"/> | | | | | | | | | |
| Label | | Type of data to store. | Form element to edit the data. | | | | | | | | | |
| ⊕ Add existing field <table> <tr> <td><input type="text"/></td> <td><input type="text" value="- Select an existing field -"/></td> <td><input type="text" value="- Select a widget -"/></td> </tr> <tr> <td>Label</td> <td>Field to share</td> <td>Form element to edit the data.</td> </tr> </table> | | | | | <input type="text"/> | <input type="text" value="- Select an existing field -"/> | <input type="text" value="- Select a widget -"/> | Label | Field to share | Form element to edit the data. | | |
| <input type="text"/> | <input type="text" value="- Select an existing field -"/> | <input type="text" value="- Select a widget -"/> | | | | | | | | | | |
| Label | Field to share | Form element to edit the data. | | | | | | | | | | |
| Save | | | | | | | | | | | | |

Figure 2.8:

Click “Save”. The following page is displayed.

| | | | | |
|---|----------------------|--------------------------------|-----------------------------|------------------------|
| Product • | EDIT | FIELD SETTINGS | WIDGET TYPE | DELETE |
| FIELD SETTINGS <p>These settings apply to the <i>Product</i> field everywhere it is used. These settings impact the way that data is stored in the database and cannot be changed once data has been created.</p> <p>Options list limit <input type="text"/> Limits the number of products available in field widgets with options lists; leave blank for no limit.</p> | | | | |
| Save field settings | | | | |

Figure 2.9:

You don't have to do anything on this page for now. Just click “**Save field settings**”. The following page is displayed:



Product

EDIT **FIELD SETTINGS**

Updated field *Product* field settings.

FLASHLIGHT PAGE DISPLAY SETTINGS

These settings apply only to the *Product* field when used in the *Flashlight Page Display* type.

Label *
Product

Required field

Render fields from the referenced products when viewing this entity.
If enabled, the appearance of product fields on this entity is governed by the display settings for the fields o

Help text

Figure 2.10:

Your product field has been added. Click “Save” at the bottom of the page. Now go to the URL /admin/-content and click on “Add content”:



Figure 2.11:

You will be taken the following page. Notice that “Flashlight Page Display” is now featured as a content



type. Click it to create a product display for your product:

The screenshot shows a user interface for adding content. At the top, there's a 'Home' link and a 'Add content' button with a plus sign. Below this, there are three options: 'Article', 'Basic page', and 'Flashlight Page Display'. The 'Flashlight Page Display' option is highlighted with a red rectangular box around its title. A descriptive text follows each option: 'Use articles for time-sensitive content like news, press releases or blog posts.' for Article, 'Use basic pages for your static content, such as an 'About us' page.' for Basic page, and 'This content type provides is to be used specifically to display Flashlights!' for Flashlight Page Display.

Figure 2.12:

Fill in the following fields in the new page:

- **Title:** Type in the title of the product you want highlighted on the page.
- **Body:** Provide a description if you want to.
- **Product:** This newly created field is the most important part of this page. Enter a few beginning letters/numbers of your product's SKU or name and the field will automatically display it in the format SKU: Product.



Create Flashlight Page Display •

Title *

3-LED Flashlight

Body ([Edit summary](#))

These flashlights are the best in the industry. They are available at really low prices and are great for homes and offices.

Figure 2.13:

The Product field on this same page is as shown below:

Product

R



RC-Prod-0001: 3-LED Flashlight

Figure 2.14:

Click “Save”. You will be taken to the newly created product page as shown below:



The screenshot shows a Drupal website with a blue header featuring the Drupal logo and the title "Drupal Tutorials". A "Home" button is visible in the top-left corner. Below the header, there's a navigation bar with a search field and a magnifying glass icon. On the left, a sidebar titled "Navigation" includes links for "Add content", "Chaos Tools AJAX Demo", and "Shopping cart". The main content area displays a product titled "3-LED Flashlight". It includes a brief description: "These flashlights are the best in the industry. homes and office!", the price "\$5.40", and a "Product:" section. At the bottom of the product card is a prominent "Add to cart" button.

Figure 2.15:

You have now successfully created a display page for your product. Notice the “**Add to cart**” button at the bottom. Since we used the “Product Reference” field in the “Manage Fields” page, Drupal Commerce knows that the node is displaying a product and “Add to cart” button is visible by default.



2.3 Add Multiple Product Variations

It is very likely that the products you are selling has variations. The simplest example is color or size. On the back-end, you will need to create a product SKU for each of these variations. The reason is that each variation may have a slightly different price and definitely a different number of items in stock. On the other hand, you want the customers to be able to select any of these SKUs from the same webpage when they add the product to cart.

We will use **Inline Entity Form** module to facilitate addition and management of multiple SKUs. Using this module, you will easily be able to add/delete/edit multiple products from one page. To get started, download, unzip and enable the Inline Entity Form module. Go to [inline entity form module page](#) to access the latest .tar.gz file.

Now enable the newly downloaded module. Click “**Modules**” in the top-level menu.



Figure 2.16:

Search for “**Inline Entity Form**”. Enable this module:

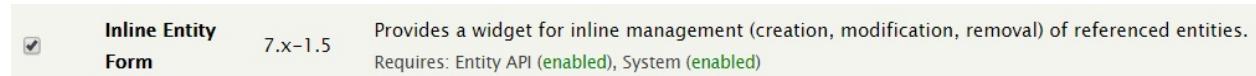


Figure 2.17:

Let's create a new content type that can work with inline entity form. Go to “**Structure**” -> “**Content types**”:

A screenshot of the Drupal "Structure" > "Content types" page. The page title is "Home » Administration" and "Structure". Below the title, there are two main navigation links: "Blocks" and "Content types". The "Content types" link is highlighted with a red box. The "Content types" link has a sub-link "Manage content types," below it.

Figure 2.18:



Notice the content type “**Flashlight Page Display**” that was created for the earlier article. Let’s create an entirely new content type. Click “**Add content type**”.

+ Add content type

NAME

Article (Machine name: article)
Use *articles* for time-sensitive content like news, press releases or blog posts.

Basic page (Machine name: page)
Use *basic pages* for your static content, such as an 'About us' page.

Flashlight Page Display (Machine name: flashlight_page_display)
This content type will be specifically used to display flashlights.

Figure 2.19:

We have entered “**Inline Form Flashlight Display**” as the title for the new content type. The description field has been left blank.



Home > Administration > Structure > Content types

Content types +

Individual content types can have different fields.

Name *

Mach

The human-readable name of this content type must be unique.

Figure 2.20:

As mentioned earlier, click “Display settings” and disable the checkbox against “**Display author and date information**”.

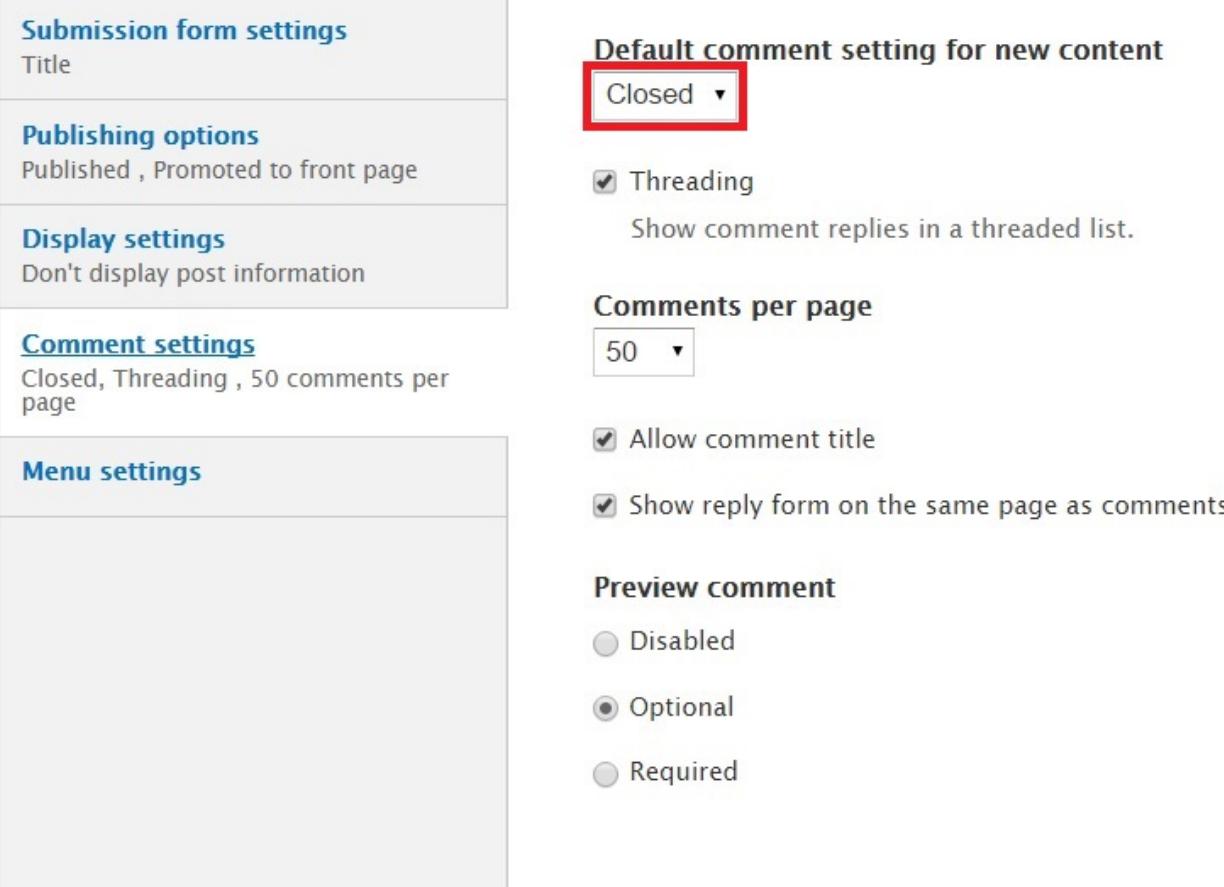
| | |
|---------------------------------|--|
| Submission form settings | <input checked="" type="checkbox"/> Display author and date information. Author username and publish date will be displayed |
| Publishing options | |
| Display settings | |
| Comment settings | |
| Menu settings | |

Save content type **Save and add fields**

Figure 2.21:

Go to “Comment settings” and select “**Closed**” from the dropdown for “**Default comment setting for new content**”.





Submission form settings

Title

Publishing options

Published , Promoted to front page

Display settings

Don't display post information

Comment settings

Closed, Threading , 50 comments per page

Menu settings

Default comment setting for new content

Closed ▾ (highlighted with a red box)

Threading
Show comment replies in a threaded list.

Comments per page

50 ▾

Allow comment title

Show reply form on the same page as comments

Preview comment

Disabled

Optional

Required

Save content type **Save and add fields**

Figure 2.22:

Click “Save and add fields”.

Create a new field here. Type in “**Choose a Flashlight**” under “Add new field”. Under “FIELD TYPE”, select “**Product reference**” from the dropdown. Under “WIDGET”, select “**Inline entity form - multiple values**”.

⊕ Add new field

| | | | |
|---------------------|----------------------------------|------------------------|--|
| Choose a Flashlight | field_choose_a_flashlight [Edit] | Product reference ▾ | Inline entity form - Multiple values ▾ |
| Label | | Type of data to store. | Form element to edit the data. |

Figure 2.23:



Choosing “**Inline entity form - multiple values**” will ensure that more than one product can be displayed on the product display page.

Click Save at the bottom of the page. A new page appears. Click “**Save field settings**”.

FIELD SETTINGS

These settings apply to the field you created.

Options list limit

Limits the number of products in the list.

Save field settings

Figure 2.24:

Your field has been added.



INLINE FORM FLASHLIGHT DISPLAY SETTINGS

These settings apply only to the *Choose a Flashlight* field.

Label *

Choose a Flashlight

Required field

Render fields from the referenced products when
If enabled, the appearance of product fields on the page

Help text

Figure 2.25:

Go further below on this page. Tick the box against “**Product**” under Product types that can be referenced. Also, tick the box against “Allow users to add existing products”. This will allow you to add existing product(s) to the page display. Select “**Starts with**” under **Autocomplete matching** and tick the boxes for all the remaining fields except for **Auto generate the product title**:



Product types that can be referenced

- Product

If no types are selected, any type of product may be referenced.

INLINE ENTITY FORM: COMMERCE PRODUCT

- Allow users to add existing products.

Autocomplete matching

Select the method used to collect autocomplete suggestions. Note that *Con*

- Delete referenced products when the parent entity is deleted.

- Override labels

Singular label

product

Plural label

products

- Auto generate the product title

This will hide the title input field and generate the title by appending any

Figure 2.26:

Go further below and select “**Unlimited**” under the field for “Number of values”. Leave the “Options List



Limit” blank to ensure there is no limit to the number of products called. Click “Save settings”:

CHOOSE A FLASHLIGHT FIELD SETTINGS

These settings apply to the *Choose a Flashlight* field.

Number of values
Maximum number of values users can enter for this field.

Options list limit
Limits the number of products available in this field.

Save settings

Figure 2.27:

The content type and field has now been successfully added.

Let's now create a page using this new content type. Click “**Add Content**”. Click “**Inline Form Flashlight Display**”.



Home

Add content •

▶ Article
Use *articles* for time-sensitive conte

▶ Basic page
Use *basic pages* for your static conte

▶ Flashlight Page Display
This content type provides is to be u

▶ **Inline Form Flashlight Display**

Figure 2.28:

Provide a title for your display. Enter a description only if you want to. We have used “**Flashlights for all seasons**”. We have entered a description as well – “**Choose from our range of flashlights to have an impact on your marketing campaign**”.



Create Inline Form Flashlight Display •

Title *

Inline Flashlight Test

Body (Edit summary)

Choose from our range of flashlights to have an impact in your marketing campaign!

Figure 2.29:

Go further below and you will see how the inline form functionality has been implemented for this display. You will be able to either add a new or existing product. Let's click "Add existing product".

Type in the first few letters and your product will appear in the autocomplete dropdown.

ADD EXISTING PRODUCT

Product *

3

3-LED Flashlight (1)

Add product

Cancel

Figure 2.30:

Click **Add product**. The page will be updated as shown below.



| INLINE_PRODUCT | | | | | Show row weights |
|--|--------------|--------|--------|---|------------------|
| VARIATION TITLE | SKU | PRICE | STATUS | OPERATIONS | |
| 3-LED Flashlight | RC-Prod-0001 | \$5.40 | Active | <button>Edit</button> <button>Remove</button> | |
| Add new product Add existing product | | | | | |

Figure 2.31:

Click **Edit** under **OPERATIONS** and you will be able to update the product you just added on this page display itself! The level of convenience offered by the Inline Entity Form module is immense. For demonstration purposes, we'll increase the price from \$5.40 to \$7.25. Click **Update product**.

| VARIATION TITLE | SKU | PRICE | STATUS |
|------------------|--------------|--------|--------|
| 3-LED Flashlight | RC-Prod-0001 | \$5.40 | Active |

DETAILS

SKU *
RC-Prod-0001
Supply a unique identifier using letters, numbers, hyphens, and underscores. Commas may not be used.

Price *
7.25 USD

Status *
 Active
 Disabled

[Update product](#) [Cancel](#)

Figure 2.32:

The product has now been updated. Let's click "Add new product". Fill in a unique SKU value and price. Notice how a new product has been added from the product display page itself. Click **Create product**.



ADD NEW PRODUCT

DETAILS

SKU *

6-LED Flashlight

Supply a unique identifier using letters,

Price *

10.50 USD

Status *

Active

Disabled

Create product **Cancel**

Figure 2.33:

We are adding another new product.



ADD NEW PRODUCT

DETAILS

SKU *
RC-Prod-0003
Supply a unique identifier using letters,

Product title *
9-LED Flashlight

Price *
12.50 USD

Status *
 Active
 Disabled

Create product **Cancel**

Figure 2.34:

Here is a summary of the products associated with this display:



INLINE_PRODUCT

| VARIATION TITLE | SKU | PRICE | STATUS | OPERATIONS |
|--------------------|--------------|---------|--------|---|
| ⊕ 3-LED Flashlight | RC-Prod-0001 | \$7.25 | Active | <button>Edit</button> <button>Remove</button> |
| ⊕ 6-LED Flashlight | RC-Prod-0002 | \$10.50 | Active | <button>Edit</button> <button>Remove</button> |
| ⊕ 9-LED Flashlight | RC-Prod-0003 | \$12.50 | Active | <button>Edit</button> <button>Remove</button> |

[Add new product](#) [Add existing product](#)

Figure 2.35:

Click **Save**.

The new product display will look as shown below.



The screenshot shows a Drupal website with a blue header bar. The header features the Drupal logo and the text "Drupal Tutorials". Below the header is a navigation bar with a "Home" link. A green success message box is displayed, stating "Inline Form Flashlight Display Flashlights for all seasons! has been created." The main content area has a light gray background. At the top left is a search bar with a magnifying glass icon. To its right are "View" and "Edit" buttons. The main title "Flashlights for all seasons!" is centered above a descriptive text: "Choose from our range of flashlights to have an impact on your marketing campaign!". Below this is a dropdown menu labeled "Choose a Flashlight:" with the option "3-LED Flashlight" selected. This dropdown is highlighted with a red border. At the bottom of the page are "Add to cart" and price information (\$5.40). A status message "Status: Active" is also present. On the left side of the main content area, there is a sidebar titled "Navigation" containing links to "Add content", "Chaos Tools AJAX Demo", and "Shopping cart".

Figure 2.36:

Notice how multiple products are being called from a dropdown. Inline functionality can be tweaked to help online store customers differentiate products based on attributes such as pricing, brand or color. With this article, you now have basic knowledge on how to use Inline Entity Form to manage products on a page.



2.4 Adding Fields And Metadata To The Product

In this section, we will add fields that are generally associated with products in an online store. More specifically, we will add a **Description** and **Image** for the flashlight products. These fields can be added by accessing “**Store**” -> “**Products**” -> “**PRODUCT TYPES**”. We will explore the steps in detail in this section. We will also be adding comments and ratings for the products. The ratings give other customers an idea about how reliable a particular product is.

Download and unzip the following modules for the rating functionality:

- **Voting API** (<https://www.drupal.org/project/votingapi>)
- **Fivestar** (<https://www.drupal.org/project/fivestar>)

Let's enable these modules. Click “**Modules**” in the menu and search for “**Fivestar**” and “**Voting API**”. Enable them:

| VOTING | | | |
|-------------------------------------|-------------------|----------|---|
| ENABLED | NAME | VERSION | DESCRIPTION |
| <input checked="" type="checkbox"/> | Fivestar | 7.x-2.1 | Enables fivestar ratings on content, users, etc. Requires: Voting API (disabled) |
| <input checked="" type="checkbox"/> | Voting API | 7.x-2.12 | Provides a shared voting API for other modules. Required by: Fivestar (disabled) |

Figure 2.37:

Let's configure the product type to add new fields. Click “**Store**” on the top-level menu. Then click “**Products**”:



Home » Administration

Store +

▶ Customer profiles
Manage customer profiles and profile types in the store.

▶ Orders
Manage orders in the store.

▶ **Products**
Manage products and product types in the store.

▶ Configuration
Configure settings and business rules for your store.

Figure 2.38:

Click “**PRODUCT TYPES**” on the top-right corner:



Figure 2.39:

In the new page, you have the option to edit the existing product type or create a new one. In the previous section, we used the “product” type provided by Drupal. We will continue using the same here. Click “**manage fields**”:



| NAME | OPERATIONS |
|--|---|
| Product (Machine name: product) A basic product type. | edit manage fields manage display delete |

Figure 2.40:

In the new page, you will be able to view the existing fields. They are “**Product SKU**”, “**Title**”, “**Price**” and “**Status**”:

| LABEL |
|-------------------------------|
| ⊕ Product SKU |
| ⊕ Title |
| ⊕ Price |
| ⊕ Status |
| ⊕ Add new field |
| <input type="text"/> Label |
| ⊕ Add existing field |
| <input type="text"/> Label |

Figure 2.41:



Add “**Description**” and “**Image**” fields for each product.

For this, type in “**Description**” under “Add new field”. Choose “**Long text**” under FIELD TYPE. “**Text area (multiple rows)**” will be automatically selected under WIDGET. Click “**Save**”.

The screenshot shows the 'Add new field' configuration interface. The 'Label' field contains 'Description'. The 'field_description [Edit]' field shows 'field_description'. The 'Type of data to store.' dropdown is set to 'Long text'. The 'Form element to edit the data.' dropdown is set to 'Text area (multiple rows)'.

Figure 2.42:

You will get the following screen. Click “**Save field settings**”.

The screenshot shows the 'FIELD SETTINGS' confirmation screen. It states: "These settings apply to the *Description* field everywhere it is used. These settings impact the way that data is stored in the database and cannot be changed once data has been created." Below this, it says "Description has no field settings." A 'Save field settings' button is visible at the bottom.

Figure 2.43:

Add the Image field by using “**Add new field**” or “**Add existing field**”. We are going to use the existing field:

The screenshot shows the 'Add existing field' configuration interface. The 'Label' field contains 'Image'. The 'field_image [Image]' dropdown shows 'Image: field_image (Image)'. The 'Form element to edit the data.' dropdown is set to 'Image'.

Figure 2.44:

Click “**Save**” at the bottom of the screen.

Rearrange the order of the fields to reflect the priority in which you want these fields to appear. Click and drag the ‘plus’ sign to the left of each field to arrange according to your priority. To demonstrate, we have positioned the newly created fields above the Status field.





Figure 2.45:

The next step is to add these fields to the display. Go to the homepage and click “Edit” for the product added by you:



The screenshot shows a Drupal-based website with a blue header bar. The header features the Drupal logo and the text "Drupal Tutorials". Below the header, there is a navigation bar with a search field and a "Home" link. The main content area has a title "Flashlights for all seasons!" with a "View" and "Edit" button. The "Edit" button is highlighted with a red box. A sidebar on the left is titled "Navigation" and includes links for "Add content", "Chaos Tools AJAX Demo", and "Shopping cart". The main content area contains a description: "Choose from our range of flashlights to have an impact on your marketing campaign!", a price of "\$5.40", a section titled "Choose a Flashlight:" with a dropdown menu set to "3-LED Flashlight", and a "Add to cart" button. Below the main content, the status is listed as "Status: Active".

Figure 2.46:

Click “Edit” for 3-LED Flashlight:

The screenshot shows a table titled "CHOOSE A FLASHLIGHT" listing three variations of a flashlight. The columns are IMAGE, VARIATION TITLE, SKU, PRICE, STATUS, and OPERATIONS. The first row shows a plus icon, "3-LED Flashlight", "RC-Prod-0001", "\$5.40", "Active", and two buttons: "Edit" (highlighted with a red box) and "Remove". The second row shows a plus icon, "6-LED Flashlight", "RC-Prod-0002", "\$10.50", "Active", and two buttons: "Edit" and "Remove". The third row shows a plus icon, "9-LED Flashlight", "RC-Prod-0003", "\$12.50", "Active", and two buttons: "Edit" and "Remove". At the bottom of the table are two buttons: "Add new product" and "Add existing product".

| IMAGE | VARIATION TITLE | SKU | PRICE | STATUS | OPERATIONS |
|-------|------------------|--------------|---------|--------|---------------------------------------|
| + | 3-LED Flashlight | RC-Prod-0001 | \$5.40 | Active | Edit Remove |
| + | 6-LED Flashlight | RC-Prod-0002 | \$10.50 | Active | Edit Remove |
| + | 9-LED Flashlight | RC-Prod-0003 | \$12.50 | Active | Edit Remove |

Figure 2.47:

Add a description and image for 3-LED Flashlight. Click “Update product” as shown in the screenshot below:





Figure 2.48:

Add similar descriptions and images for other products in your inventory. In our case, the products are 6-LED Flashlight and 9-LED Flashlight.

Further below, click the “Comment settings” tab on the left. Ensure that “Open” is selected so that users can add their comments describing their experiences while buying the product. Click “Save” at the bottom of the screen:



Comment settings

Open
Users with the "Post comments" permission can post comments.

Closed
Users cannot post comments.

Menu settings
Not in menu

Revision information
No revision

URL path settings
Automatic alias

Authoring information
By admin on 2015-03-10 05:17:54 -0700

Publishing options
Published, Promoted to front page

Save **Preview** **Delete**

Figure 2.49:

We are going to configure the comments to ensure anonymous users can add their feedback as well. On the top-level menu, click “**People**”:



Figure 2.50:

On the top-right, click “**PERMISSIONS**”:



Figure 2.51:

Search for “**Comment**”. Tick all the boxes that come under it for “**ANONYMOUS USER**”:



| Comment | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| Administer comments and comment settings | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| View comments | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Post comments | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Skip comment approval | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Edit own comments | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Figure 2.52:

Search for “**Fivestar**”. Tick the box that comes under it for “**ANONYMOUS USER**” and “**AUTHENTICATED USER**”:

Let’s now configure the content type associated with displaying the Flashlight products. In our case, the content type is “**Inline Form Flashlight Display**”.

Click “**Structure**” on the top-level menu:



Figure 2.53:

Click “**manage fields**” next to “**Inline Form Flashlight Display**”:



Figure 2.54:

On the top-right, click “**COMMENT FIELDS**”:



Figure 2.55:

Create a new field with the “**FIELD TYPE**” value as “**Fivestar Rating**”. Provide a name for your rating field. We have used “**Rate this product**”. For the “**WIDGET**” dropdown, choose the value “**Stars (rated while editing)**”:



Figure 2.56:

Save your settings and you will be taken to a new screen as shown in the screen below.



INLINE FORM FLASHLIGHT DISPLAY COMMENT SETTINGS

These settings apply only to the *Rate this product* field when used in the *Inline Form Flashlight Display comment* type.

Label *

Required field

Help text

Instructions to present to the user below this field on the editing form.
 Allowed HTML tags: <a> <big> <code> <i> <ins> <pre> <q> <small> <sub> <sup> <tt> <p>

 This field supports tokens.

Browse available tokens.

STAR DISPLAY OPTIONS

Number of stars

Allow users to cancel their ratings.
 Allow users to re-vote on already voted content.
 Allow users to vote on their own content.

Voting target

The voting target will make the value of this field cast a vote on another node. Use node reference fields module to create advanced reviews. Use the Parent Node Target w

RATE THIS PRODUCT FIELD SETTINGS

These settings apply to the *Rate this product* field everywhere it is used. Because the field already has data, some settings can no longer be changed.

Voting Tag *

Figure 2.57:

Fill in the fields. we have ticked the box against “**Required field**”. This means that it is mandatory to give a rating whenever a customer adds a comment. In the “**Number of stars**” dropdown, we have used the default value. The most important field on this page is the “**Voting target**” dropdown. It ensures that the rating field is displayed within the comment section. Choose “**“Parent Node”** as a value for this field. Save your settings. On the “Manage Fields” page, drag the rating field above “**Subject**”:





Figure 2.58:

Let's now visit a product on the site. This is how it looks:



Flashlights for all seasons!

[View](#) [Edit](#)

Submitted by admin on Tue, 03/10/2015 - 05:17

Choose from our range of flashlights to have an impact on your marketing campaign!

Choose a Flashlight:

3-LED Flashlight ▾

[Add to cart](#)

Description:

These flashlights are perfect for all your outdoor and indoor needs! • Multi-mode electronic switch • Advanced focus system • Up to 625 lumens

Price: \$5.40

Image:



Status: Active

[Add new comment](#)

Your name

Rate this product *

Subject

Comment *

Figure 2.59:



You will notice that the new fields have been added. Also notice the rating and comment box at the bottom. We are going to type in a comment and provide a rating. First, we will log off:



Figure 2.60:

We enter a comment and choose a rating as an anonymous user:

Add new comment

| | |
|--|--|
| Your name | Kevin Smith |
| Rate this product | |
| Subject | This product looks cool! |
| Comment * | I am definitely going to buy this product! |
| Text format Filtered HTML ▾ More information about text formats | |
| <ul style="list-style-type: none"> • Web page addresses and e-mail addresses turn into links automatically. • Allowed HTML tags: <a> <cite> <blockquote> <code> <dl> <dt> <dd> • Lines and paragraphs break automatically. | |
| Save Preview | |

Figure 2.61:

Click “Save” and this is how the product page will look. You have now configured your product’s display page to showcase more fields.



Flashlights for all seasons!

Submitted by admin on Tue, 03/10/2015 - 05:17

Choose from our range of flashlights to have an impact on your marketing campaign!

Choose a Flashlight:

3-LED Flashlight ▾

Add to cart

Description:

These flashlights are perfect for all your outdoor and indoor needs! • Multi-mode electronic switch • Advanced focus system • Up to 625 lumens

Price: \$5.40

Image:



Status: Active

Comments

Kevin Smith (not verified)

Fri, 08/14/2015 - 06:37

[Permalink](#)

This product looks cool!

Rate this product:



Average: 5 (1 vote)

I am definitely going to buy this product!

[delete](#) [edit](#) [reply](#)

Figure 2.62:



Chapter 3

Adding a Shopping Cart

In this chapter, we will show you the steps involved in displaying a cart on your Drupal store.

Although cart module is included in the Drupal Commerce suite, we prefer to use “**Commerce Cart Ajax**”. The reason is that since “**Commerce Cart Ajax**” uses AJAX to update the cart, the experience is much slicker than using a normal cart which requires page refresh for update. “**Commerce Cart Ajax**” also ensures that the shopping cart block is loaded using AJAX. This facilitates the caching of the rest of the page. In short, your shopping cart page’s loading performance is improved.

Download, unzip and enable the “**Commerce Cart Ajax**” module. Go to [Commerce Cart AJAX module page](#) on your browser window to unzip the required module. Once you are on the page, scroll down to view the .tar.gz file you wish to download.





Download & Extend

[Download & Extend Home](#) [Drupal Core](#) [Distributions](#)

Commerce Cart Ajax

[View](#) [Version control](#)

Posted by [webmasterkai](#) on *October 4, 2011 at 3:57pm*

Features

1. The “remove” button on cart view removes the item from page refresh. The row is removed from the table.
2. The “Qty” is updated when the “update” button is clicked. page refresh.

Figure 3.1:



Downloads

Recommended releases

| Version | Download | Date | Links |
|---------|---|-------------|-----------------------|
| 7.x-1.0 | tar.gz (8.38 KB) zip (9.7 KB) | 2011-Oct-21 | Notes |

Development releases

| Version | Download | Date | Links |
|-------------|---|-------------|-----------------------|
| 7.x-1.x-dev | tar.gz (8.84 KB) zip (10.14 KB) | 2013-Sep-30 | Notes |

Figure 3.2:

After you have unzipped the file in your sites/all/modules folder, it's time to enable “Commerce Cart Ajax”. Click “Modules” in the top-level menu:



Figure 3.3:

Search for “Commerce Cart Ajax” and enable it:

| COMMERCE (CONTRIB) | | | |
|-------------------------------------|--------------------|---------|---|
| ENABLED | NAME | VERSION | DESCRIPTION |
| <input checked="" type="checkbox"/> | Commerce Cart Ajax | 7.x-1.0 | Ajax features for Drupal Commerce Cart. Quick item removal and quantity changes. Requires: Cart (enabled), Commerce (enabled), System (enabled), Entity API (enabled), Rules (enabled), Entity tokens (enabled), Checkout (enabled), Commerce UI (enabled), Order (enabled), Customer (enabled), Address Field (enabled), Chaos tools (enabled), Line Item (enabled), Price (enabled), Product (enabled), Product Pricing (enabled), Product Reference (enabled), Options (enabled), Field (enabled), Field SQL storage (enabled), Views (enabled) |

Figure 3.4:

Click “Save Configuration”.

Save configuration

Figure 3.5:

Let's enable the cart to be displayed on the homepage. This is how the homepage looks at the moment:



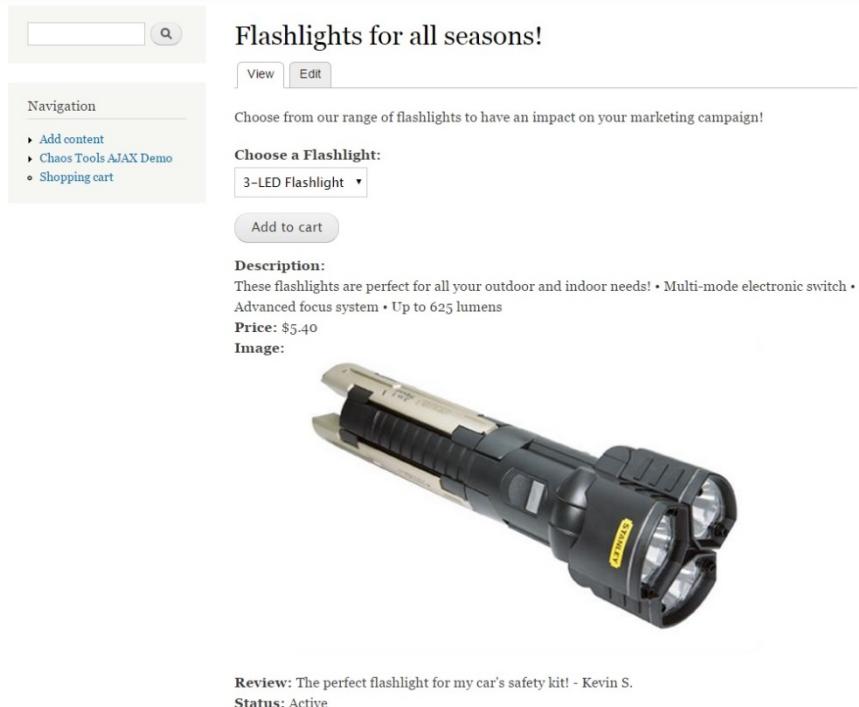


Figure 3.6:

We will display the cart in the left sidebar just above the search box. Click “**Structure**” on the top-level menu. And click “**Blocks**”:



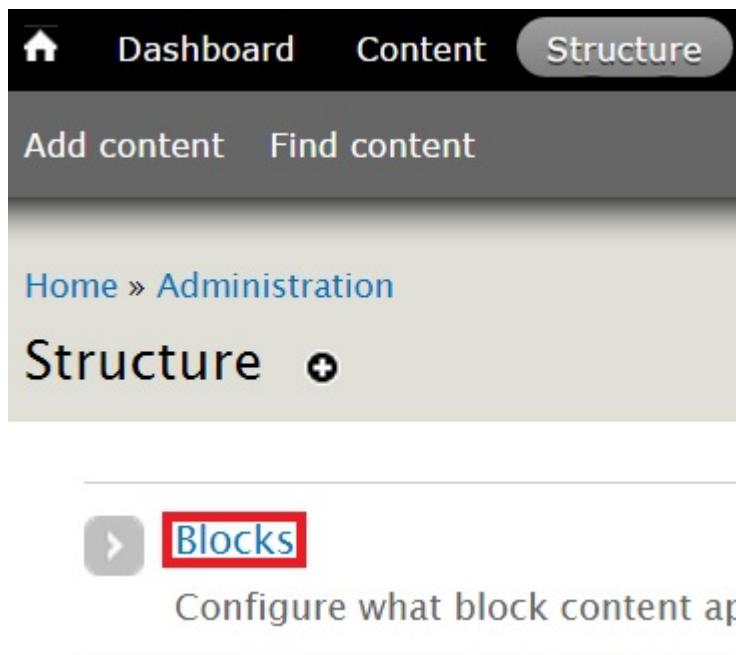


Figure 3.7:

Search for “Shopping cart” under Disabled. Select “Sidebar first” from the REGION dropdown:

This screenshot shows the 'Blocks' configuration page. On the left, a list of blocks is shown: Recent comments, Recent content, Shortcuts, Syndicate, User menu, Who's new, and Shopping cart. The 'Shopping cart' block is highlighted with a red border. To the right, a dropdown menu titled 'REGION' lists various regions: - None -, Header, Help, Highlighted, Featured, Content, Sidebar first (which is highlighted with a blue background), Sidebar second, Triptych first, Triptych middle, Triptych last, Footer first column, Footer second column, Footer third column, Footer fourth column, and Footer. At the bottom of the dropdown menu is an option for '- None -'.

Figure 3.8:

“Shopping cart” will now be displayed under the Sidebar first section as shown below:



Sidebar first

| | |
|-----------------|-----------------|
| ⊕ Search form | Sidebar first ▾ |
| ⊕ Navigation | Sidebar first ▾ |
| ⊕ User login | Sidebar first ▾ |
| ⊕ Shopping cart | Sidebar first ▾ |

Figure 3.9:

Drag “Shopping cart” to above “Search form” by using the icon on its left.

Sidebar first

| | |
|------------------|-----------------|
| ⊕ Shopping cart* | Sidebar first ▾ |
| ⊕ Search form | Sidebar first ▾ |
| ⊕ Navigation | Sidebar first ▾ |
| ⊕ User login | Sidebar first ▾ |

Figure 3.10:

Click “Save blocks” at the bottom of the page.



Save blocks

Figure 3.11:

Go to the homepage. This is how the cart will be displayed:



The screenshot shows a Drupal website with a blue header featuring the Drupal logo and the text "Drupal Tutorials". Below the header, there is a "Home" button. The main content area has a light gray background. On the left, there is a "Shopping cart" block containing a table of items:

| | | |
|-----|------------------|---------|
| 3 × | 3-LED Flashlight | \$16.20 |
| 1 × | 6-LED Flashlight | \$10.50 |
| 1 × | 9-LED Flashlight | \$12.50 |

Below the table, it says "5 items" and "Total: \$39.20". There are "View cart" and "Checkout" links.

To the right of the cart block, there is a "Flashlights for all seasons!" section with the text "Choose from our range of flashlights to have an ..." followed by a redacted portion. Below this, there is another "Flashlights for all seasons!" section with the text "Choose from our range of flashlights to have an ..." followed by a redacted portion.

At the bottom of the page, there is a "Inline Flashlight Test" section with the same text "Choose from our range of flashlights to have an ..." followed by a redacted portion.

Figure 3.12:

You can have the cart displayed anywhere on the page by specifying a location of your choice for the block. Click “View cart” and you will be taken to the following screen:



The screenshot shows the Drupal Tutorials website with a blue header bar. On the left is the Drupal logo and the text "Drupal Tutorials". On the right are links for "My account" and "Log out". Below the header, there's a "Home" button. The main content area has a title "Shopping cart". To the left is a summary table:

| Shopping cart | | Total |
|---------------|---------------------------|--------------------------|
| 3 × | 3-LED Flashlight | \$16.20 |
| 1 × | 6-LED Flashlight | \$10.50 |
| 1 × | 9-LED Flashlight | \$12.50 |
| 5 items | Total: \$39.20 | |
| | View cart | Checkout |

To the right is a detailed table:

| Product | Price | Quantity | Remove | Total |
|------------------|---------|----------|------------------------|---------|
| 3-LED Flashlight | \$5.40 | 3 | Remove | \$16.20 |
| 6-LED Flashlight | \$10.50 | 1 | Remove | \$10.50 |
| 9-LED Flashlight | \$12.50 | 1 | Remove | \$12.50 |

At the bottom right of the page are "Update cart" and "Checkout" buttons.

Figure 3.13:

You have now activated the display for your site's shopping cart functionality. You can also activate AJAX functionality. This will further enhance product updation and deletion processes from the cart. Click "Edit view" as shown below in both summary and detailed shopping carts.

This screenshot is similar to Figure 3.13 but includes red boxes highlighting the "Edit view" link in the summary table and the "Edit view" link in the total row of the detailed table.

The "Edit view" link in the summary table is located next to the quantity and price columns for the first item. The "Edit view" link in the total row of the detailed table is located in the "Total" column.

Figure 3.14:



In the new screen, expand “Advanced”. A set of options will now appear. Update the No value for “Use AJAX” with Yes.

The screenshot shows the Drupal admin interface under the 'Structure' tab. In the 'Displays' section, there is a 'Master' view configuration. On the right side, under the 'Advanced' settings, the 'Use AJAX' option is set to 'No'. This setting is highlighted with a red box.

Figure 3.15:

Click “No” and a pop-up appears.

A modal dialog box titled "Defaults: Use AJAX when available to load this view". The text inside says: "If set, this view will use an AJAX mechanism for paging, table sorting and exposed filters. This means the entire page will not refresh. It is not recommended that you use this if this view is the main content of the page as it will prevent deep linking to specific pages, but it is very useful for side content." Below the text are two radio buttons: one selected "Yes" and one unselected "No". At the bottom are "Apply" and "Cancel" buttons.

Figure 3.16:

Select “Yes” and click “Apply”. This will ensure your site is more adaptable to AJAX functionality.

We are going to update the quantity for the 1st product. I will choose 10 items instead of 3. Click “Update cart”.



| Shopping cart | | | | |
|---------------|---------------------------|--------------------------|----------|---------|
| | Product | Price | Quantity | Total |
| 3 × | 3-LED Flashlight | \$16.20 | 3 | \$16.20 |
| 1 × | 6-LED Flashlight | \$10.50 | 1 | \$10.50 |
| 1 × | 9-LED Flashlight | \$12.50 | 1 | \$12.50 |
| 5 items | Total: \$39.20 | | | |
| | View cart | Checkout | | |

| Shopping cart | | | | |
|---------------|------------------|---------|----------|-----------------------|
| | Product | Price | Quantity | Total |
| | 3-LED Flashlight | \$5.40 | 10 | \$16.20 |
| | 6-LED Flashlight | \$10.50 | 1 | \$10.50 |
| | 9-LED Flashlight | \$12.50 | 1 | \$12.50 |
| | | | | Total: \$39.20 |

[Update cart](#) [Checkout](#)

Figure 3.17:

Notice how the cart has been updated after increasing the quantity:

| Shopping cart | | | | |
|---------------|---------------------------|--------------------------|----------|---------|
| | Product | Price | Quantity | Total |
| 10 × | 3-LED Flashlight | \$5.40 | 10 | \$54.00 |
| 1 × | 6-LED Flashlight | \$10.50 | 1 | \$10.50 |
| 1 × | 9-LED Flashlight | \$12.50 | 1 | \$12.50 |
| 12 items | Total: \$77.00 | | | |
| | View cart | Checkout | | |

| Shopping cart | | | | |
|---------------|------------------|---------|----------|-----------------------|
| | Product | Price | Quantity | Total |
| | 3-LED Flashlight | \$5.40 | 10 | \$54.00 |
| | 6-LED Flashlight | \$10.50 | 1 | \$10.50 |
| | 9-LED Flashlight | \$12.50 | 1 | \$12.50 |
| | | | | Total: \$77.00 |

[Update cart](#) [Checkout](#)

Figure 3.18:

Play around with the functionality of your cart to get accustomed to it. Add, remove or update products to strengthen your basic understanding of its functionality.



Chapter 4

Configuring Checkout

It is important to spend time to understand how you want the checkout process to work on your online store. The main focus should be to offer shoppers a convenient and quick shopping experience. Having a hassle-free checkout process will go a long way in increasing your store's conversion rate. In this chapter, you will learn how to:

- add pages to the default checkout flow to collect more information
- increase conversion by skipping the cart and letting the customer purchase via express checkout



4.1 Adding Checkout Pages

In this section, we will be enabling a module known as “Commerce Checkout Pages”. This module provides you with extra functionality to configure the checkout process for your site. For example, a default installation of Drupal Commerce will not allow you to create new checkout pages. In this article, we will add new pages to the checkout process after enabling the module.

Let’s get started. This article is divided into two parts – before and after installing this module.

Before installing Commerce Checkout Pages

Before we proceed to install the module, we want you to have a look at how the checkout process appears for a default installation of Drupal Commerce. Look at our screen from the previous chapter. Click “Checkout”:

The screenshot shows a Drupal Commerce checkout page. At the top, there's a blue header bar with the Drupal Tutorials logo and a navigation menu. Below the header, the page title is "Flashlights for all seasons!". On the left, there's a "Shopping cart" summary table showing three items: 10 x 3-LED Flashlight (\$54.00), 1 x 6-LED Flashlight (\$10.50), and 1 x 9-LED Flashlight (\$12.50). The total is 12 items and \$77.00. There are "View cart" and "Checkout" buttons. To the right of the cart, there's a section titled "Choose a Flashlight:" with a dropdown menu set to "3-LED Flashlight". Below it is an "Add to cart" button. At the bottom, there's a search bar and a "Description:" section with some text.

Figure 4.1:

You will get the following Checkout screen. Notice that “**Shopping cart contents**” and “**Billing information**” appear on the same screen.



Checkout

▼ Shopping cart contents

| Product | Price | Quantity | Total |
|------------------|---------|----------|---------|
| 3-LED Flashlight | \$5.40 | 10 | \$54.00 |
| 6-LED Flashlight | \$10.50 | 1 | \$10.50 |
| 9-LED Flashlight | \$12.50 | 1 | \$12.50 |

Order total \$77.00

Billing information

Country *

Afghanistan

Full name *

hghgf

Address 1 *

hgghf

Address 2

City *

ghfghgf

Continue to next step or Cancel

Figure 4.2:

Fill in some random values as part of your Billing information. Click “Continue to next step”.

You will get the following Review order screen. Notice how “**Shopping cart contents**”, “**Account information**”, “**Billing information**” and “**Payment**” details are summarized for the customer’s benefit.



Review order

Review your order before continuing.

| Shopping cart contents | | | |
|------------------------|---------|-------------|---------|
| Product | Price | Quantity | Total |
| 3-LED Flashlight | \$5.40 | 10 | \$54.00 |
| 6-LED Flashlight | \$10.50 | 1 | \$10.50 |
| 9-LED Flashlight | \$12.50 | 1 | \$12.50 |
| | | Order total | \$77.00 |

Account information

Username
admin
E-mail address
admin@redcrackle.com

Billing information

hghgf
hgghf
ghfghgf
Afghanistan

Payment

Example payment

Card number *
4111111111111111

Expiration *
04 ▾ / 15 ▾

[Continue to next step](#) or [Go back](#)

Figure 4.3:

Click “**Continue to next step**” to complete the Checkout process. You will get the following screen:



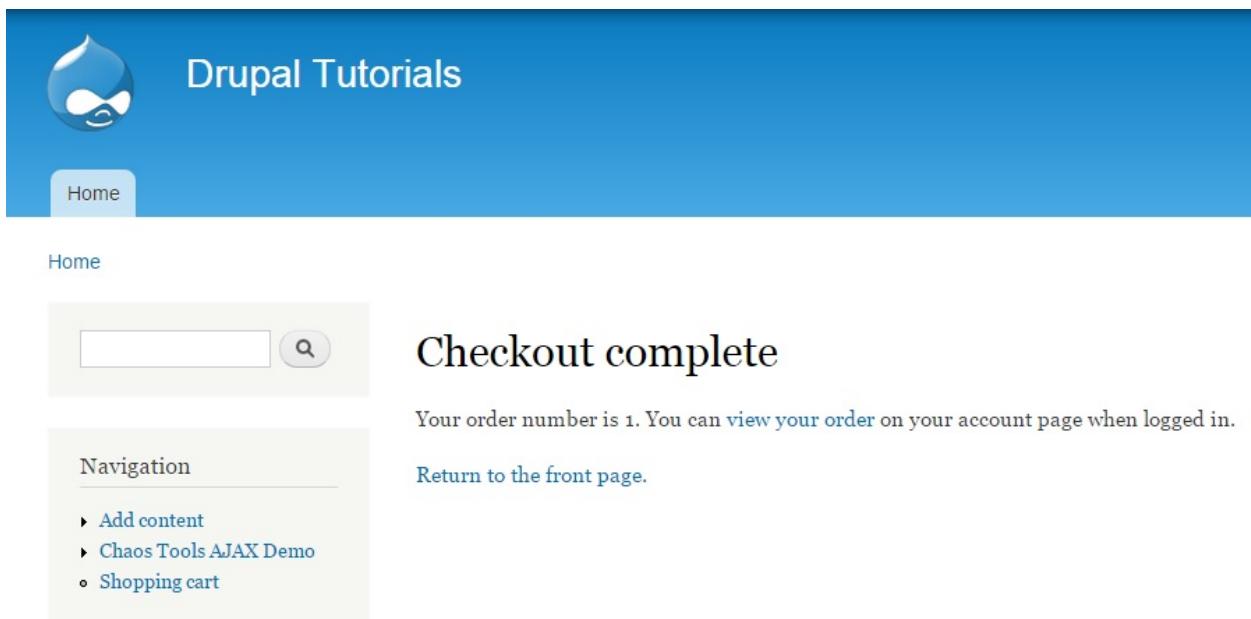


Figure 4.4:

Let us now explore the Checkout options that come by default with Drupal Commerce. They are “Checkout”, “Review”, “Payment” and “Complete”.

To access these settings, you will have to first click on the “Store” button on the top-level menu:

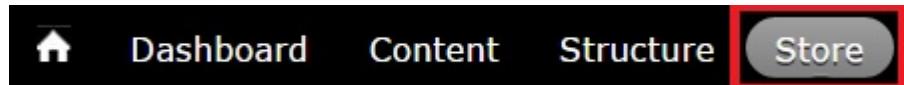


Figure 4.5:

Click “Configuration” and then “Checkout settings”:



- ▶ **Checkout settings**

Customize the checkout form and configure checkout rules.

- ▶ **Currency settings**

Configure the default currency and display settings.

- ▶ **Line item types**

Manage line item types for your store.

- ▶ **Order settings**

Configure general order settings, fields, and displays.

- ▶ **Payment methods**

Enable and configure payment method rule configurations.

- ▶ **Product pricing rules**

Enable and configure product pricing rules and pre-calculation.

Figure 4.6:

You will get the following screen. Click on the “configure” link on the right of “Shopping cart contents”:



| CHECKOUT PANE | OPERATIONS |
|-----------------------------|------------------|
| Checkout | |
| ⊕ Shopping cart contents | configure |
| ⊕ Account information | configure |
| ⊕ Billing information | configure |
| Review | |
| ⊕ Review | configure |
| ⊕ Payment | configure |
| Payment | |
| ⊕ Off-site payment redirect | configure |
| Complete | |
| ⊕ Completion message | configure |
| Disabled | |
| <i>No disabled panes.</i> | |

Save configuration **Reset to defaults**

Figure 4.7:

You will get the following screen:



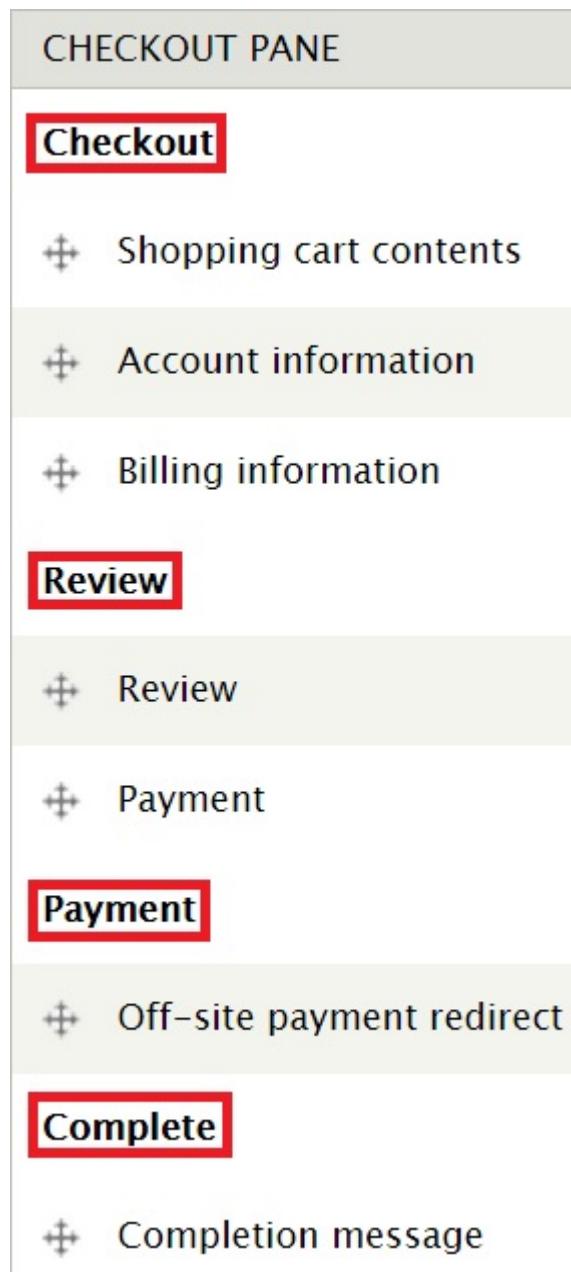


Figure 4.8:

You can drag and drop the values above to reposition them but you can't add new pages without a contributed module. On the top-right of this very page, you will find two tabs: Checkout Form and Checkout Rules. These will come in handy later.





Figure 4.9:

Now let's go ahead and install the “Commerce Checkout Pages” module. Go to [Commerce Checkout Pages module page](#) to download it.

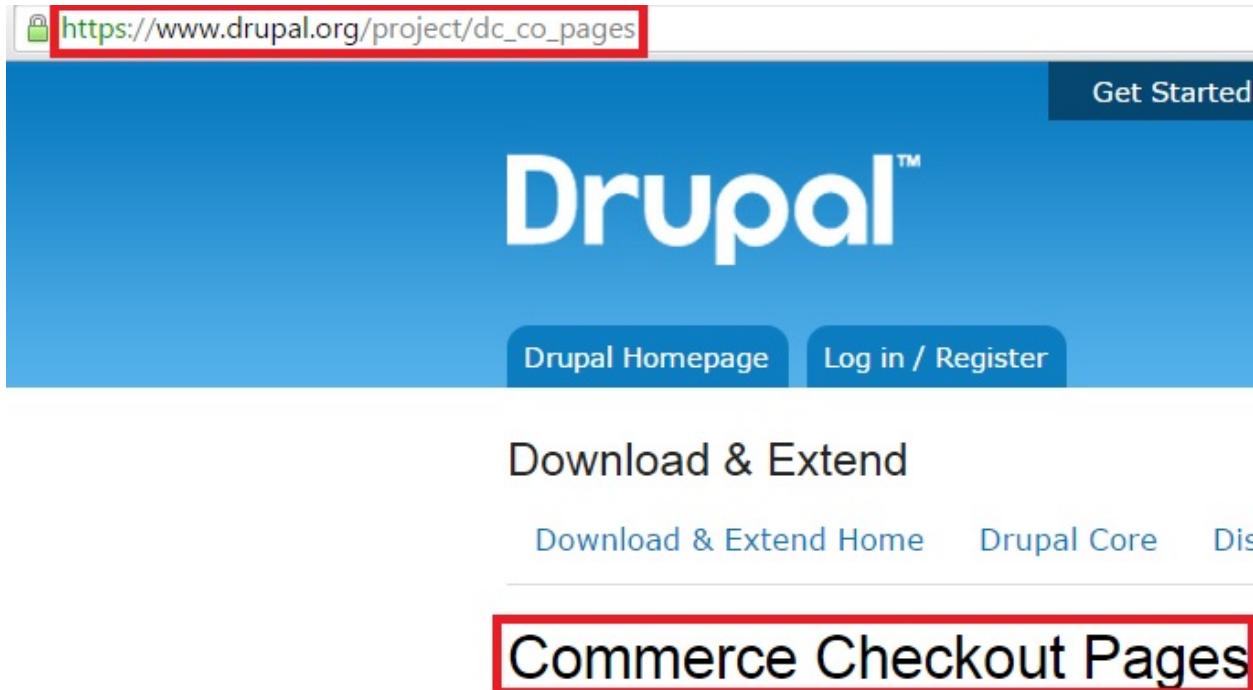


Figure 4.10:

Download the latest .tar.gz file to your sites/all/modules folder. Enable the module by going to “Administration” -> “Modules” and searching for “Checkout pages”:



| ENABLED | NAME | VERSION | DESCRIPTION |
|-------------------------------------|----------------|---------|---|
| <input checked="" type="checkbox"/> | Checkout Pages | 7.x-1.0 | Allow user to add custom pages to DrupalCommerce checkout. Requires: Checkout (enabled) , Commerce (enabled) , System (enabled) , Entity API (enabled) , Line Item (enabled) , Price (enabled) |

Figure 4.11:

Click “Save configuration” at the bottom of the page.

Let’s visit “Checkout Settings” again like we did earlier in this article. Go to “Store” -> “Configuration” -> “Checkout settings”. Following screen appears:

The screenshot shows the 'Checkout settings' configuration page. At the top, there are three tabs: 'CHECKOUT FORM', 'CHECKOUT PAGES' (which is highlighted with a red border), and 'CHECKOUT RULES'. Below the tabs, there is a table titled 'CHECKOUT PANE' with columns 'CHECKOUT PANE' and 'OPERATIONS'. The table lists various checkout panes such as 'Checkout', 'Review', 'Payment', and 'Complete', each with a 'configure' link under the 'OPERATIONS' column. At the bottom of the page, there are two buttons: 'Save configuration' and 'Reset to defaults'.

Figure 4.12:

You probably won’t notice anything changed at first glance. But a closer look will reveal an extra tab “CHECKOUT PAGES” on the top-right. This is where you will be able to add new pages that can manipulate the checkout process:

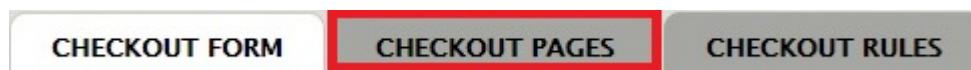


Figure 4.13:

Click “CHECKOUT PAGES” to configure the Checkout pages better. You will get the following screen. Click “Add page” to enter pages of your choice.



The screenshot shows a user interface for adding a new checkout page. At the top, there is a red-bordered button labeled '+ Add page'. Below it is a table with four rows, each representing a step in the checkout process:

| NAME |
|---|
| + Checkout (Machine name: checkout) |
| + Review order (Machine name: review) Review your order before continuing. |
| + Payment (Machine name: payment) Use the button below to proceed to the payment server. |
| + Checkout complete (Machine name: complete) |

At the bottom left is a 'Save' button.

Figure 4.14:

Give a new page title. And add a custom message as shown below. We want a page dedicated to displaying the items added to the cart. Tick the boxes against Status cart and Buttons as well. Ticking against Status cart will ensure that the new page becomes a part of the checkout sequence. Ticking against Buttons will ensure that buttons such as Next and Previous appear, allowing shoppers to navigate forth and back.

Click “Save”.



Title *

Confirm your cart Machine name: confirm_your_cart [Edit]

Help *

Confirm the items in your cart before proceeding.

Help text displayed to end user on checkout page.

Status cart

Buttons

Save

Figure 4.15:

Now let's create a page that's dedicated to the user entering his address. We have provided the details as shown below.



Title *

Fill in your address details Machine name: fill_in_your_address_details [Edit]

Help *

Enter the address you want these items shipped to.

Help text displayed to end user on checkout page.

Status cart

Buttons

Save

Figure 4.16:

Click “Checkout pages” in the breadcrumb path:



Home » Administration » Store » Configuration » Checkout settings » **Checkout pages**

Checkout settings •

 The page has been saved

Title *

Help *

Help text displayed to end user on checkout page.

Status cart
 Buttons

Save

Figure 4.17:

You will be taken to the following page. Notice the newly created pages at the bottom:



NAME

- ⊕ Checkout (Machine name: checkout)
- ⊕ Review order (Machine name: review)
Review your order before continuing.
- ⊕ Payment (Machine name: payment)
Use the button below to proceed to the payment server.
- ⊕ Checkout complete (Machine name: complete)
- ⊕ Confirm your cart (Machine name: confirm_your_cart)
Confirm the items in your cart before proceeding.
- ⊕ Fill in your address details (Machine name: fill_in_your_address_details)
Enter the address you want these items shipped to.

Save

Figure 4.18:

Drag them to the very top as shown below. Click “Save”.



NAME

⊕ Confirm your cart (Machine name: confirm_your_cart)
Confirm the items in your cart before proceeding.
*

⊕ Fill in your address details Machine name: fill_in_your_address_details)
Enter the address you want these items shipped to.
*

⊕ Checkout (Machine name: checkout)

⊕ Review order (Machine name: review)
Review your order before continuing.

⊕ Payment (Machine name: payment)
Use the button below to proceed to the payment server.

⊕ Checkout complete (Machine name: complete)

Save

Figure 4.19:

Click “**CHECKOUT FORM**”. This is how the page will look. Your newly added pages will be at the top but without any panes:



CHECKOUT PANE

Confirm your cart

No panes on this page.

Fill in your address details

No panes on this page.

Checkout

- + Shopping cart contents
- + Account information
- + Billing information

Review

- + Review
- + Payment

Payment

- + Off-site payment redirect

Complete

- + Completion message

Disabled

No disabled panes.

Save configuration **Reset to defaults**

Figure 4.20:



Drag Shopping cart contents till it's placed under "Confirm your cart". Drag Billing information till it is placed under "Fill in your address details".

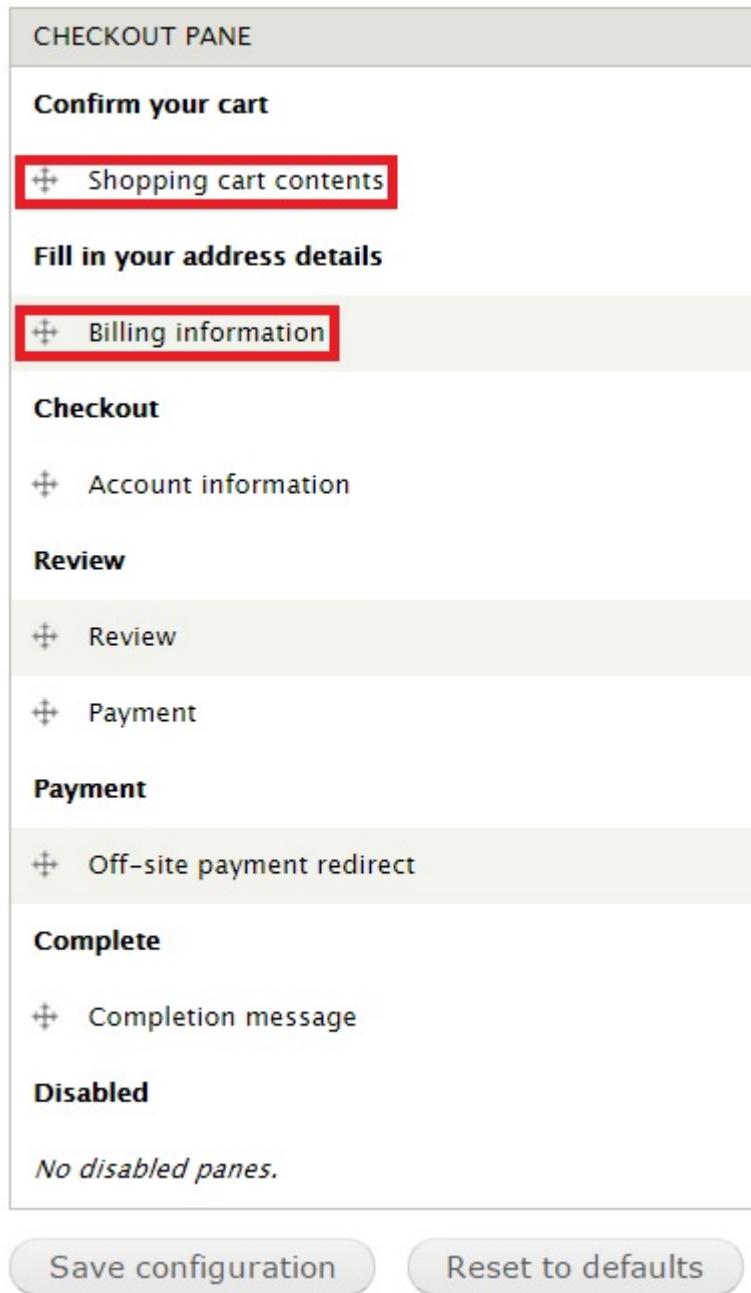


Figure 4.21:

Let's now go through the Checkout process again. Go to the homepage. We have added a product to our



cart. Click “Checkout”.

[Home](#)

Shopping cart

1 × 3-LED Flashlight \$5.40

1 item Total: \$5.40

[View cart](#) [Checkout](#)

[View](#) [Edit](#)

Choose from our range of flashlights to have an impa

Choose a Flashlight:

3-LED Flashlight ▾

[Add to cart](#)

Description:

Figure 4.22:

You will now be taken to the “Confirm your cart” page that is created by you. Click “Continue to next step”.

[View cart](#) [Search](#)

Confirm your cart

Confirm the items in your cart before proceeding.

Navigation

- ▶ Add content
- ▶ Chaos Tools AJAX Demo
- Shopping cart

Shopping cart contents

| Product | Price | Quantity | Total |
|------------------|--------|----------|--------|
| 3-LED Flashlight | \$5.40 | 1 | \$5.40 |

Order total \$5.40

[Continue to next step](#) or [Cancel](#)

Figure 4.23:



You will now be taken to the second page created by you. Fill in a random name and address:

The screenshot shows a web page with a header 'Home' and a search bar. On the left, there's a 'Navigation' sidebar with links like 'Add content', 'Chaos Tools AJAX Demo', and 'Shopping cart'. The main content area has a title 'Fill in your address details' in a red-bordered box. Below it, a placeholder text says 'Enter the address you want these items shipped to.' A 'Billing information' section follows, containing fields for 'Country' (set to 'United States'), 'Full name' (containing 'James Avery'), 'Address 1' (containing 'Hilton Avenue'), 'Address 2' (empty), 'City' (empty), 'State' (set to 'New Mexico'), and 'ZIP code' (containing '87113'). At the bottom, there are buttons for 'Continue to next step' and 'Go back'.

Figure 4.24:

The remaining steps in the checkout process will proceed as highlighted by you in the CHECKOUT PANE, i.e. Review, Payment and Complete.



4.2 Express Checkout

In this section, we are going to add an Express Checkout button to a product in your inventory. It's a fairly simple procedure that allows the shopper to proceed directly to the checkout without visiting the Cart. This saves time and ensures that you are able to win the shopper's business quicker.

To get started, you will have to download and unzip the “Commerce Express Checkout” module in your sites/all/modules folder. Visit the following link to access the module: [Commerce Express Checkout module page](#). Enable the module by clicking “Modules” on the top-level menu:



Figure 4.25:

Search for “Commerce Express Checkout” and enable it:

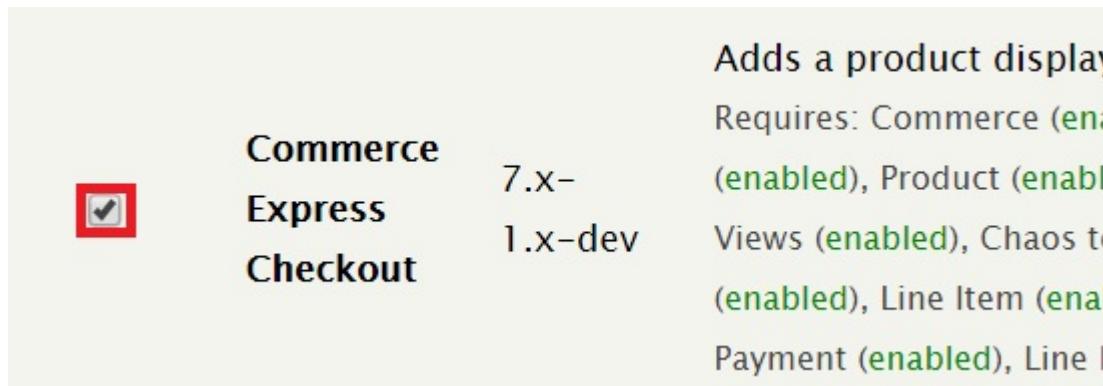


Figure 4.26:

Click “Save configuration”:



Figure 4.27:

Let's configure the Express Checkout button. Go to the following path on your Drupal system: [admin/commerce/products/express-checkout-links](#)

You will notice a “Select Product” dropdown at the top of the page. It allows you to select a product of your choice to associate the Express Checkout button with. I chose the product 3-LED Flashlight. Click “Generate Code”. A code will be generated in the dialog box below as shown in the screenshot:



Home » Administration » Store » Products

Generate Product Express Checkout Buttons •

Select Product *

3-LED Flashlight

Select a Product and click Generate Code, then copy the code from below

Generate Code

This is how it will look like, copy the code below and paste it anywhere on your site or on any external site you want to put a buy link on:

Express Checkout

```
<span style="display: inline-block; padding: 10px; border: 1px solid #CCCCCC; border-radius: 20px; background-color: #EEEEEE;"><a href="http://tutorials.redcrackle.com/commerce-express-checkout/1/5P9TnoCbwXKn8vtvBjbN554GkSJWYLMhpttS8A7ITeU" style="text-decoration: none; font-weight: bold; color: #666666">Express Checkout</a></span>
```

Figure 4.28:

You will have to add this code to any page on your site. I am going to add it to the 3-LED Flashlight product page. Copy the code to a notepad. Go to your product's page and click “Edit” as shown below:



3-LED Flashlight

[View](#)[Edit](#)

These flashlights are the best in the industry. They are available at really low prices and are great for homes and offices.

Product:[Add to cart](#)**Price:** \$5.40**Description:**

These flashlights are perfect for all your outdoor and indoor needs! • Multi-mode electronic switch • Advanced focus system • Up to 625 lumens

Image:

Figure 4.29:

In the Edit page, paste the code in the Body. Make sure the dropdown for Text format is set to “**Full HTML**”:



Title *

Body ([Edit summary](#))

These flashlights are the best in the industry. They are available at really low prices and are great for homes and offices.

```
<span style="display: inline-block; padding: 10px; border: 1px solid #CCCCCC; border-radius: 20px; background-color: #EEEEEE;"><a href="http://tutorials.redcrackle.com/commerce-express-checkout/1/5P9TnoCBwXKn8vtvBjbN554GkSJWYLmhpttS8A7ITeU" style="text-decoration: none; font-weight: bold; color: #666666">Express Checkout</a></span>
```

Text format [Full HTML](#) More information about text

Figure 4.30:

Click “Save” at the bottom of the page:

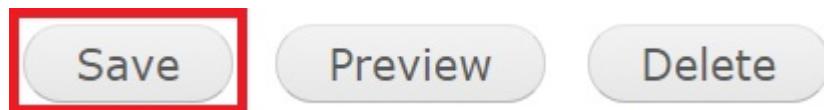


Figure 4.31:

Head over to the product you wish to purchase. You will notice an “Express Checkout” button like in the screenshot below:



3-LED Flashlight

[View](#) [Edit](#)

These flashlights are the best in the industry. They are available at really low prices and are great for homes and offices.

Express Checkout

Product:

[Add to cart](#)

Price: \$5.40

Description:

These flashlights are perfect for all your outdoor and indoor needs! • Multi-mode electronic switch • Advanced focus system • Up to 625 lumens

Image:



Figure 4.32:

Click “**Express Checkout**” and you will be taken directly to the checkout screen as shown in the screenshot below:



Confirm your cart

Confirm the items in your cart before proceeding.

▼ Shopping cart contents

| Product | Price | Quantity | Total |
|------------------|--------|-------------|---------------|
| 3-LED Flashlight | \$5.40 | 1 | \$5.40 |
| | | Subtotal | \$4.91 |
| | | VAT | \$0.49 |
| | | Order total | \$5.40 |

[Continue to next step](#) or [Cancel](#)

Figure 4.33:



Chapter 5

Accepting Payments

It's important to have a reliable and proven payment mechanism for your online store. This chapter will help you configure Authorize.net and PayPal for your store.



5.1 Authorize.Net

In this section, we will add a payment gateway to your store. We will be using Authorize.net, which is a hugely popular gateway service provider that allows you to accept credit card payments from buyers online.

Before we proceed further, make sure you have an Authorize.Net account. You can create a paid account by visiting commerceguys.com/authorize-net-reseller:

The screenshot shows a web browser window with the URL <https://commerceguys.com/authorize-net-reseller> in the address bar. The page has a black header with navigation links for 'COMMERCE GUYS', 'DRUPAL COMMERCE', and 'PLATFORM.SH', and a language selection 'ENGLISH'. The main content area has a blue header with the 'commerce guys' logo. Below it, the title 'Authorize.net Reseller' is displayed. A paragraph explains that Commerce Guys is an Authorize.Net reseller, mentioning registration for payment gateway and merchant accounts. It also notes that payment gateway accounts are required for processing credit cards and e-Checks. A 'Sign Up Now' button is highlighted with a red box. Another box highlights the 'Authorize.Net Online Application' link. The page lists 'Authorize.Net Payment Gateway Account Fees' (One-Time Setup Fee: \$99.00, Monthly Gateway Fee: \$17.95, Per-Transaction Fee: \$0.10) and 'Estimated Merchant Account Fees' (One-Time Setup Fee: \$0.00, Monthly Statement Fee: \$9.95, Transaction Fee: \$0.25, VISA/MasterCard Rate: 2.19%, Monthly Minimum Fee: \$25.00). A note at the bottom states that merchant account fees are assessed in addition to payment gateway account fees, but existing merchant accounts can be used.

Figure 5.1:

To get started, go to [Commerce Authorize.Net module page](#)** to download and unzip the Commerce Authorize.Net module in your sites/all/modules folder.





Download & Extend

[Download & Extend Home](#) [Drupal Core](#)

Commerce Authorize.Net

Figure 5.2:

Go to “Admin” -> “Modules” and search for Authorize.net. Enable it as shown below.

| COMMERCE (CONTRIB) | | | | |
|-------------------------------------|---------------|---------|---|---|
| ENABLED | NAME | VERSION | DESCRIPTION | |
| <input checked="" type="checkbox"/> | Authorize.Net | 7.x-1.1 | Implements Authorize.Net payment services for use with Drupal Commerce. | Requires: Commerce (enabled), System (enabled), Entity API (enabled), Rules (enabled) tools (enabled), Line Item (enabled), Price (enabled) |

Figure 5.3:

Click “Save configuration” at the bottom of the page.

Save configuration

Figure 5.4:



Let's configure the payment settings now. Click "Store" on the top-level menu:



Figure 5.5:

Click "Configuration":

The screenshot shows a list of configuration options under the "Store" menu:

- Customer profiles**: Manage customer profiles and profile types in the store.
- Orders**: Manage orders in the store.
- Products**: Manage products and product types in the store.
- Configuration**: Configure settings and business rules for your store.

The "Configuration" link is highlighted with a red rectangular box.

Figure 5.6:

Click "Payment methods". You will find 2 tables that feature payment method rules. The first table is titled "**Enabled payment method rules**". The second one is titled "**Disabled payment method rules**". Let's focus on the disabled table.

The enabling of the module has introduced a new entity in the disabled payment rules table. It is called "**Authorize.Net AIM - Credit Card**". Click "edit" to customize your payment options.



Disabled payment method rules

| NAME | EVENT | STATUS | OPERATIONS |
|---------------------------------|---|---------|--|
| Authorize.Net AIM – Credit Card | Select available payment methods for an order | Default | edit enable clone export |

Machine name: commerce_payment_authnet_aim, Weight: 0
Tags: Commerce Payment
• Available on the checkout form
• Available on the order payment terminal

Figure 5.7:

The new page provides you with 3 configurable items for your payment method – Events, Conditions and Actions. You will notice that “Enable payment method: Authorize.Net AIM - Credit Card” is now visible under Actions. Click “edit” on the far right:

Home » Administration » Store » Configuration » Payment methods
Editing reaction rule "Authorize.Net AIM – Credit Card" •

Events

| EVENT | OPERATIONS |
|---|------------------------|
| Select available payment methods for an order | delete |

Add event

Conditions

| ELEMENTS | WEIGHT | OPERATIONS |
|----------|--------|------------|
| None | | |

Add condition Add or Add and

Actions

| ELEMENTS | OPERATIONS |
|---|---|
| + Enable payment method: Authorize.Net AIM – Credit Card Parameter: Order: [Commerce-order] | edit delete |

Show row weights

Add action Add loop

SETTINGS

[Save changes](#)

Figure 5.8:

In this page, under Payment settings, you will find two fields that have to be populated. They are “**API Login ID**” and “**Transaction Key**”. The values for both these fields can be obtained after you create an Authorize.net account.

Under Transaction mode, make sure “**Test transactions in a live account**” is selected for testing purposes. You can change this to “**Live transaction in a live account**” when your site is finally ready to accept actual transactions. Refer the screenshot below for more details:



PAYMENT SETTINGS

API Login ID *

Your API Login ID is different from the username you use to login to your Authorize.Net account. Once Authorize.Net account, you may still need to generate an ID.

Transaction Key *

Your Transaction Key can be found on the same screen as your API Login ID. However, it will not be rea

Transaction mode

Live transactions in a live account

Test transactions in a live account

Developer test account transactions

Adjust to live transactions when you are ready to start processing real payments.
Only specify a developer test account if you login to your account through <https://test.authorize.net>.

Figure 5.9:

On the same page, you will come across “**Default credit card transaction type**”, which specifies the authorization type to be used.

These are the 2 fields under this section:

- **Authorization and capture:** Verifies the amount due and submits for payment.
- **Authorization only:** Verifies the amount due but doesn’t submit for payment. This option is for stores that cannot accept payment unless the product is shipped.

The “**Limit accepted credit cards to the following types**” section allows you to specify the type of credit cards accepted by your site. Leaving this section blank will ensure your site accepts all kinds of credit cards.

The “**Tell Authorize.net to e-mail the customer a receipt based on your account settings**” field isn’t required because Drupal Commerce sends its own receipt and confirmation email to the customer once the order is successfully placed.

And finally, you will come across the log settings. Tick against the boxes for “**API request messages**” and “**API response messages**” to enable logging of Payment reports for your site.



Default credit card transaction type

- Authorization and capture
 Authorization only (requires manual or automated capture after checkout)

The default will be used to process transactions during checkout.

Limit accepted credit cards to the following types

- Visa
 MasterCard
 American Express
 Discover Card
 Diners Club
 Diners Club International
 Carte Blanche
 JCB
 Maestro
 Visa Electron
 Laser
 Solo
 Switch

If you want to limit acceptable card types, you should only select those supported by your merchant account. If none are checked, any credit card type will be accepted.

To enable Card on File functionality download and install the Card on File module.

- Tell Authorize.net to e-mail the customer a receipt based on your account settings.

Log the following messages for debugging

- API request messages
 API response messages

Figure 5.10:



Click “Save” at the bottom of the page. You will get the following page. Click “Save Changes”:

| Events | | OPERATIONS |
|---|--|------------|
| EVENT | | |
| Select available payment methods for an order | | delete |
| + Add event | | |

| Conditions | | OPERATIONS |
|------------------------------------|--------|------------|
| ELEMENTS | WEIGHT | |
| None | | |
| + Add condition + Add or + Add and | | |

| Actions | | SHOW ROW WEIGHTS | OPERATIONS |
|--|--|------------------|-------------|
| ELEMENTS | | | |
| + Enable payment method: Authorize.Net AIM – Credit Card | | | edit delete |
| Parameter: Order: [commerce-order] | | | |
| + Add action + Add loop | | | |

| SETTINGS |
|---|
| <input type="button" value="Save changes"/> |

Figure 5.11:

You have now enabled Authorize.Net for your website.



5.2 PayPal

PayPal is easily the world's most preferred payment solution. Drupal has several competent modules that can handle PayPal transactions. In this section, we will be downloading, enabling and configuring the "Commerce PayPal" module.

First, you will need a PayPal account. Please create it in case you don't have one.

Proceed to [Commerce PayPal module page](#) to download the latest version of the .tar.gz file to your sites/all/modules folder. Unzip and enable it.

Go to "Administration" -> "Modules". Search for "PayPal". Make sure PayPal and PayPal WPS are enabled before proceeding.

| ▼ COMMERCE (PAYPAL) | | | |
|-------------------------------------|--|---------|---|
| ENABLED | NAME | VERSION | DESCRIPTION |
| <input checked="" type="checkbox"/> | PayPal | 7.x-2.3 | Implements PayPal payment services for Commerce. Requires: Commerce (enabled), System (enabled), Chaos tools (enabled), Line Item (enabled), Required by: PayPal Payments Advanced and PayPal WPS |
| <input type="checkbox"/> | PayPal Express Checkout | 7.x-2.3 | Implements PayPal Express Checkout interface for Commerce. Requires: Commerce (enabled), System (enabled), Chaos tools (enabled), Line Item (enabled), Required by: PayPal Payments Advanced and PayPal WPS |
| <input type="checkbox"/> | PayPal Payments Advanced and Payflow Link | 7.x-2.3 | Implements PayPal Payments Advanced and Payflow Link interface for Commerce. Requires: Commerce (enabled), System (enabled), Chaos tools (enabled), Line Item (enabled), Required by: PayPal WPS |
| <input type="checkbox"/> | PayPal WPP | 7.x-2.3 | Implements PayPal Website Payments Pro interface for Commerce. Requires: Commerce (enabled), System (enabled), Chaos tools (enabled), Line Item (enabled), Required by: PayPal WPS |
| <input checked="" type="checkbox"/> | PayPal WPS | 7.x-2.3 | Implements PayPal Website Payments Standard interface for Commerce. Requires: Commerce (enabled), System (enabled), Chaos tools (enabled), Line Item (enabled), Required by: PayPal WPS |

Figure 5.12:

Click "Save configuration" at the bottom of the page:



A grey rounded rectangular button with the text "Save configuration" in a sans-serif font.

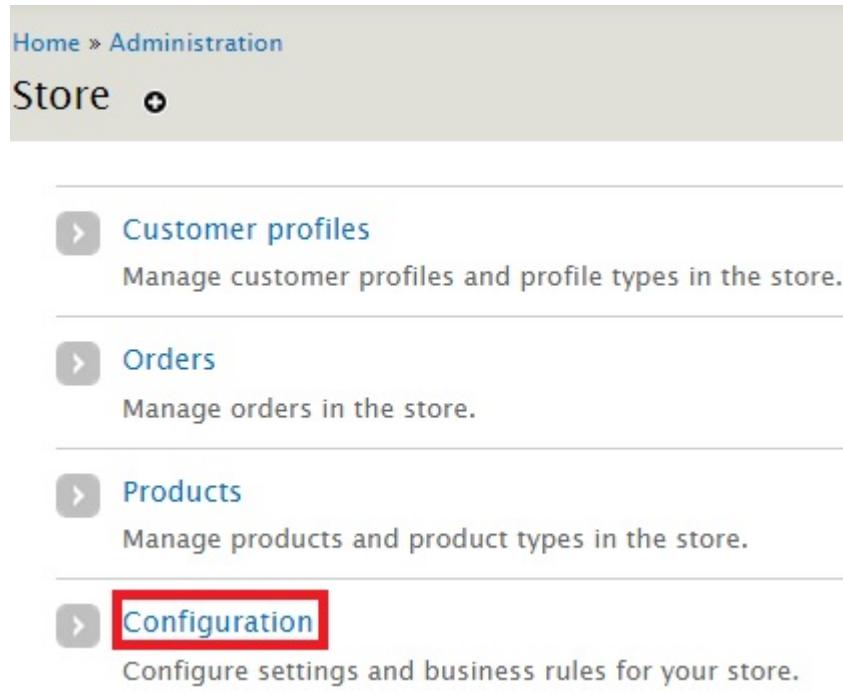
Figure 5.13:

Click “**Store**” on the top-level menu:



Figure 5.14:

Click “**Configuration**”:



The screenshot shows a Drupal administrative interface. At the top, there's a breadcrumb trail: "Home » Administration". Below it, a main title "Store" with a plus sign icon. The main content area lists several configuration options under the heading "Store". Each option has a small grey arrow icon followed by the name and a brief description. The "Configuration" option is highlighted with a red border around its box.

| Link | Description |
|-----------------------------------|--|
| Customer profiles | Manage customer profiles and profile types in the store. |
| Orders | Manage orders in the store. |
| Products | Manage products and product types in the store. |
| Configuration | Configure settings and business rules for your store. |

Figure 5.15:

Click “**Payment methods**”:



Home » Administration » Store

Configuration •

▶ **Checkout settings**
Customize the checkout form and configure checkout rules.

▶ **Currency settings**
Configure the default currency and display settings.

▶ **Line item types**
Manage line item types for your store.

▶ **Order settings**
Configure general order settings, fields, and displays.

▶ **Payment methods**
Enable and configure payment method rule configurations.

▶ **Product pricing rules**
Enable and configure product pricing rules and pre-calculation.

▶ **Taxes**
Manage tax rates and types.

Figure 5.16:

You will find “**PayPal WPS**” listed in the “**Disabled payment method rules**” table:



Disabled payment method rules

| NAME |
|---|
| Authorize.Net AIM – Credit Card Machine name: commerce_payment_authnet_aim, Weight: 0 Tags: Commerce Payment <ul style="list-style-type: none"> • Available on the checkout form • Available on the order payment terminal |
| PayPal WPS Machine name: commerce_payment_paypal_wps, Weight: 0 Tags: Commerce Payment <ul style="list-style-type: none"> • Available on the checkout form • Not available on the order payment terminal |

Figure 5.17:

Click “Edit” on the right of “PayPal WPS”:

| | | | | | | | |
|------------|---|---|---------|-------------|--------|-------|--------|
| PayPal WPS | Machine name: commerce_payment_paypal_wps, Weight: 0 Tags: Commerce Payment <ul style="list-style-type: none">• Available on the checkout form• Not available on the order payment terminal | Select available payment methods for an order | Default | edit | enable | clone | export |
|------------|---|---|---------|-------------|--------|-------|--------|

Figure 5.18:

On the new page, look out for the table called “Actions”. You will find “Enable payment method: PayPal WPS” listed under it. Click “Edit”:



Actions

| ELEMENTS | OPERATIONS |
|---|---|
| ⊕ Enable payment method: PayPal WPS Parameter: Order: [commerce-order] | edit delete |
| + Add action + Add loop | |

Figure 5.19:

In the new page, you will come across a lot of settings. We will deal with them one by one.

The first box allows you to choose a Data selector:

ORDER

Data selector *

commerce-order

The data selector helps you drill down into the data available to Rules. To make entity fields available in [the online documentation](#).

Data types: Select data of the type *Commerce Order*.

DATA SELECTORS

[Switch to the direct input mode](#)

Figure 5.20:

We have left ours as default.

Under the “**PAYMENT SETTINGS**” section, you will come across the following fields:

- Enter the email address used by you to create a PayPal account:



PAYMENT SETTINGS

PayPal e-mail address *

The primary e-mail address of the PayPal account you want to use to receive payments.

Figure 5.21:

- Specify the currency your PayPal account is associated with. By default, the value provided is USD:

Default currency

 USD ▾

Transactions in other currencies will be converted to this currency, so multi-currency sites must be configured to use appropriate conversion rates.

Figure 5.22:

- Tick the box against “Allow transactions to use any currency in the options list above” if you want your e-commerce store to accept and convert all currencies to the currency of your choice:



Allow transactions to use any currency in the options list above.

Transactions in unsupported currencies will still be converted into the default currency.

Figure 5.23:

- Select the country of your choice in the dropdown below. It should be the country you wish to do business in (where a majority of your target audience resides):

PayPal login page language / locale

 United States ▾

Figure 5.24:

- Are you planning to test the payments in a demo environment? If yes, choose “Sandbox - use for testing, requires a PayPal Sandbox account” under “PayPal server”. Go for “Live - use for processing real transactions” only if you are launching the site and need real-time results.



PayPal server

- Sandbox – use for testing, requires a PayPal Sandbox account
- Live – use for processing real transactions

Figure 5.25:

- Under Payment action, you can decide whether you want to process payment immediately or authorize the payment so that it can be collected at a later stage. Choose any of the options below:

Payment action

- Sale – authorize and capture the funds at the time the payment is processed
- Authorization – reserve funds on the card to be captured later through your PayPal account

Figure 5.26:

- IPN represents Instant Payment Notifications (IPNs). Drupal's default setting is “**Log notifications during IPN validation and processing**”. You may select “Log notifications with the full IPN during validation and processing (used for debugging)” if you want to debug any PayPal errors that may arise during the payment process.

IPN logging

- Log notifications during IPN validation and processing.
- Log notifications with the full IPN during validation and processing (used for debugging).

Figure 5.27:

- Enter a list of email addresses associated with your PayPal account. IPNs will be sent to this address:

PayPal receiver e-mail addresses

Figure 5.28:



- Select “**Create a billing profile...**” if you need to create a customer billing profile featuring his address details.
- Select “**Show a message...**” if you want the message Continue with checkout to complete payment via PayPal to be displayed during the shopper select PapPal WPS as a payment option.

Create a billing profile based on name and country data in the IPN for any order that does not have one yet.
 This is most useful for sites that do not collect billing information locally but still want to have customer names on orders.

Show a message on the checkout form when PayPal WPS is selected telling the customer to "Continue with checkout to complete payment via PayPal."

Figure 5.29:

Click “**Save**” at the bottom of the page to save your configuration.

Follow this path once again: “**Store**” -> “**Configuration**” -> “**Payment methods**”. Click “enable” next to “**PayPal WPS**” under “**Disabled payment method rules**”:

| Disabled payment method rules | | | | |
|---|---|------------|------------|--------|
| NAME | EVENT | STATUS | OPERATIONS | |
| Authorize.Net AIM – Credit Card | Select available payment methods for an order | Overridden | edit | enable |
| Machine name: commerce_payment_authnet_aim, Weight: 0 Tags: Commerce Payment • Available on the checkout form • Available on the order payment terminal | | | | |
| PayPal WPS | Select available payment methods for an order | Overridden | edit | enable |
| Machine name: commerce_payment_paypal_wps, Weight: 0 Tags: Commerce Payment • Available on the checkout form • Not available on the order payment terminal | | | | |

Figure 5.30:

You will get the following screen. Click “**Confirm**”:

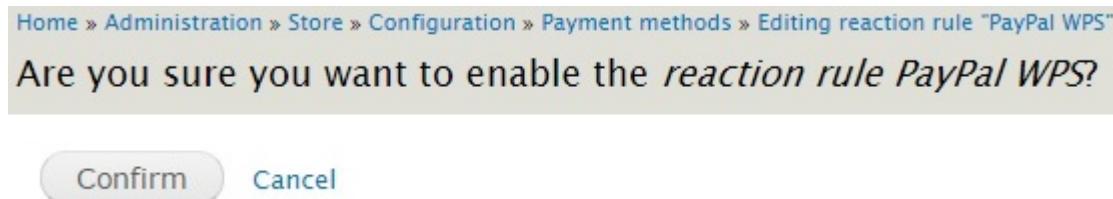


Figure 5.31:

You have now successfully configured PayPal for your machine.

Head over to your site’s checkout process. You will find options to opt for PayPal. Here is how it will look:



Billing information

Jason Avery
Sunset Boulevard
Albuquerque, NM 87113
United States

Account information

Username
admin
E-mail address
admin@redcrackle.com

Payment

Example payment

 PayPal - pay securely without sharing your financial information

Includes:      

(Continue with checkout to complete payment via PayPal.)

Figure 5.32:



Chapter 6

Collecting Taxes

Every country levies a tax on goods sold. This holds true for online stores as well. What sort of tax is levied in your country? In this chapter, we will configure the online store to collect VAT and Sales Tax.



6.1 VAT

In this section, we will show you how to add Value Added Tax (VAT) to the billed amount. Value-added Tax (VAT) is a form of tax levied on consumers based on a product's price. VAT collected by companies is usually sent to the government.

You don't have to install any new module to activate VAT charges in your bill. Drupal already comes with in-built features to help you configure tax amounts in your bill. Let's get started!

Click “**Store**” on the top-level menu:



Figure 6.1:

In the new page, click “**Configuration**”:

The image shows a list of configuration options under the "Store" menu. The options are: "Customer profiles" (Manage customer profiles and profile types in the store.), "Orders" (Manage orders in the store.), "Products" (Manage products and product types in the store.), and "Configuration" (Configure settings and business rules for your store.). The "Configuration" option is highlighted with a red box.

▶ **Customer profiles**
Manage customer profiles and profile types in the store.

▶ **Orders**
Manage orders in the store.

▶ **Products**
Manage products and product types in the store.

▶ **Configuration**
Configure settings and business rules for your store.

Figure 6.2:

In the new page, click “**Taxes**”:



-
- ▶ **Product pricing rules**
Enable and configure product pricing rules and pre-calculation.
 - ▶ **Shipping**
Manage shipping methods and services.
 - ▶ **Taxes**
Manage tax rates and types.
-

Figure 6.3:

In the new page, click “**Add a tax rate**”:

Define a tax rate for each tax you must collect from the appropriate operations link below.

+ Add a tax rate

| |
|--|
| NAME |
| There are no tax rates yet. Add a tax rate . |

Figure 6.4:

You will be able to provide a name for the tax and the percentage you wish to allocate for it over the total billed amount. Here are the fields you will have to fill in:

- **Title:** The name you wish to give for the tax. We have named it VAT.
- **Display title:** The text you want displayed to represent the tax.
- **Description:** You can provide an explanation for the tax here.
- **Rate:** What's the tax percentage? You will have to provide the value in decimal format. We wanted to impose a tax of 10%. So I typed in .1. If you wish to introduce a VAT tax of 5%, then you will have to type in .05.
- **Type:** Drupal comes with two default tax types – Sales Tax and VAT. We have chosen VAT from the dropdown.



Click “Save tax rate” to create the new tax. Refer the screenshot below:

Title *

The administrative title of this tax rate. It is

Display title

The front end display title of this tax rate sh

Description

Describe this tax rate if necessary. The text

Rate *

The percentage used to calculate this tax ex

Type *

The tax type for this rate.

Save tax rate **Cancel**

Figure 6.5:



The new VAT tax is now saved.

Let's now configure a product to include the tax. This ensures that VAT tax is implemented during purchases for that product.

Click “**Store**” on the top-level menu:



Figure 6.6:

In the new page, click “**Products**”:

A vertical list of management sections, each preceded by a grey arrow icon:

- Customer profiles**
Manage customer profiles and profile types in the store.
- Orders**
Manage orders in the store.
- Products**
Manage products and product types in the store. (This section is highlighted with a red rectangular border around its title.)
- Configuration**
Configure settings and business rules for your store.

Figure 6.7:

In our case, the products created by us earlier are displayed. We are going to edit the product “**3-LED Flashlight**” with SKU “**RC-Prod-0001**”. Click “**Edit**”:

| SKU | ▲ | TITLE | TYPE | PRICE | STATUS | OPERATIONS |
|--------------|---|------------------|---------|---------|--------|---|
| RC-Prod-0001 | | 3-LED Flashlight | Product | \$5.40 | Active | edit delete |
| RC-Prod-0002 | | 6-LED Flashlight | Product | \$10.50 | Active | edit delete |
| RC-Prod-0003 | | 9-LED Flashlight | Product | \$12.50 | Active | edit delete |

Figure 6.8:



We will now be taken to a new page where the product's details can be edited. Select “**Including VAT**” from the dropdown titled “**Include tax in this price**”:



Product SKU *

Supply a unique identifier for this product using letters, numbers, hyphens,

Title ***Price ***

USD

Include tax in this price Including VAT

Saving prices tax inclusive will bypass later calculat

Description

These flashlights are perfect for all your outdoor and indoor needs!

- Multi-mode electronic switch
- Advanced focus system
- Up to 625 lumens

Image

3-LED Flashlight.jpg (13.71 KB)

[Remove](#)

Figure 6.9:



Click “Save Product” at the bottom of the page.

Let's now go and place an order for this product. Click “Add to cart”:



Price: \$5.40

Description:

These flashlights are perfect for all your outdoor needs.

Advanced focus system • Up to 625 lumens

Image:

Figure 6.10:

The product has now been added to your cart. Click “Checkout”:



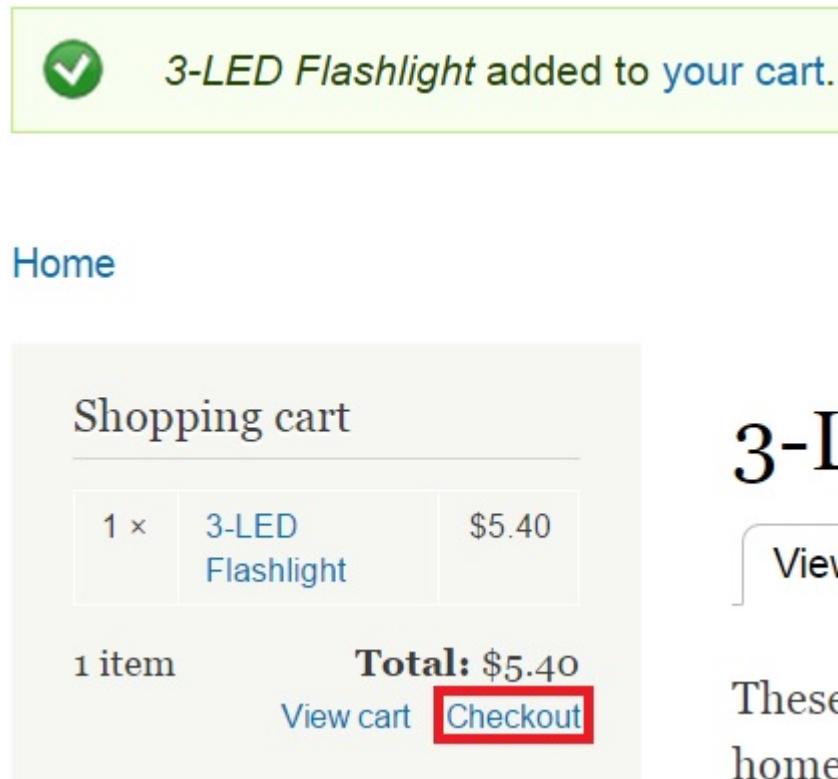


Figure 6.11:

You will notice that the VAT amount has been added to the “Confirm your cart” screen. The total order amount will reflect this taxed amount:



Confirm your cart

Confirm the items in your cart before proceeding.

▼ Shopping cart contents

| Product | Price | Quantity | Total |
|------------------|--------|-------------|--------|
| 3-LED Flashlight | \$5.40 | 1 | \$5.40 |
| | | Subtotal | \$4.91 |
| | | VAT | \$0.49 |
| | | Order total | \$5.40 |

[Continue to next step](#) or [Cancel](#)

Figure 6.12:



6.2 Adding Sales Tax

In this section, we will show you how to add Sales Tax to the billed amount. Sales tax is a tax collected from the buyer at point of purchase. It is usually paid to a governing body by the retail outlet.

The procedure to configure Sales Tax is the same as in the previous section. Click “**Store**” -> “**Configuration**”:

-
-  **Customer profiles**
Manage customer profiles and profile types in the store.
 -  **Orders**
Manage orders in the store.
 -  **Products**
Manage products and product types in the store.
 -  **Configuration**
Configure settings and business rules for your store.

Figure 6.13:

Click “**Taxes**”:

-
-  **Product pricing rules**
Enable and configure product pricing rules and pre-calculation.
 -  **Shipping**
Manage shipping methods and services.
 -  **Taxes**
Manage tax rates and types.

Figure 6.14:



Click “**Add a tax rate**”. You will notice the VAT tax created earlier:

The screenshot shows a web interface for adding a tax rate. At the top, there is a red-bordered button labeled "+ Add a tax rate". Below it is a form field labeled "NAME" with the value "VAT (Machine name: vat)". Underneath, there is a description: "Value Added Tax (VAT) for each product" followed by "Rate: .1".

Figure 6.15:

In the new page, fill in tax details just you like did for VAT tax:

- **Title:** We have provided “Sales Tax”.
- **Display title:** This field is not mandatory. We have provided “Sales Tax”.
- **Description:** We have provided a brief description about Sales Tax here
- **Rate:** How much do you wish to charge as Sales Tax? Provide the value in decimal format. We want to impose a tax of 5% so we typed in .05.
- **Type:** We chose “**Sales Tax**” from the dropdown.

Click “**Save tax rate**”:



Title *
 Ma

The administrative title of this tax rate. It is reci

Display title

The front end display title of this tax rate show

Description

Describe this tax rate if necessary. The text will

Rate *

The percentage used to calculate this tax expre

Type *
 ▾

The tax type for this rate.

Figure 6.16:

The newly created tax is saved:



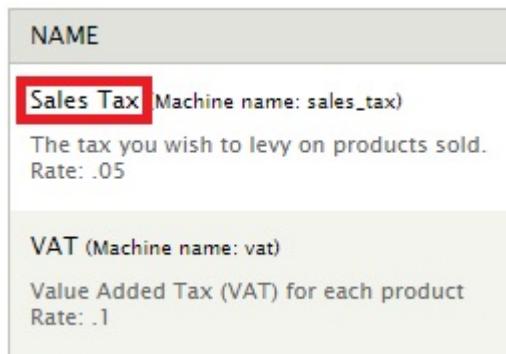


Figure 6.17:

Let's now checkout a product and confirm whether Sales Tax reflects in the bill:

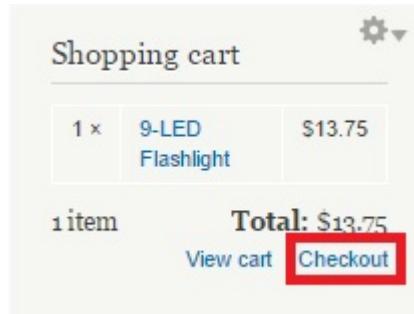


Figure 6.18:

The Sales Tax will be reflected when you are asked to confirm your cart:



Confirm your cart

Confirm the items in your cart before proceeding.

| Shopping cart contents | | | |
|------------------------|---------|----------|---------------------|
| Product | Price | Quantity | Total |
| 9-LED Flashlight | \$13.75 | 1 | \$13.75 |
| | | | Subtotal \$12.50 |
| | | | VAT \$1.25 |
| | | | Sales Tax \$0.63 |
| | | | Order total \$14.38 |

Figure 6.19:

You can choose to keep either Sales Tax or VAT. Feel free to delete the tax that's not required in your country.



Chapter 7

Configuring Discounts

Want to offer discounts to shoppers? Drupal allows you to do this in an easy and convenient manner. In this chapter, you'll learn how to add:

- fixed price coupons
- percentage coupons
- discounts based on order size



7.1 Adding Coupons

It's easy to set up coupons for your Drupal Commerce-based online store. Drupal primarily allows you to configure 2 kinds of coupons – the first kind allows shoppers on your site to have a fixed amount deducted from the final bill. The second kind of coupon allows shoppers to have a percentage amount deducted from the bill.

To get started, you will have to download and unzip the following modules in your sites/all/modules folder:

- [Entity Reference](#)
- [Commerce Coupon](#)
- [Commerce coupon percentage](#)
- [Commerce coupon fixed amount](#)

Head over to enable these modules. Click “**Modules**”:



Figure 7.1:

Search for the “**Entity Reference**” module and enable it:



▼ FIELDS

| ENABLED | NAME |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | Address Field |
| <input checked="" type="checkbox"/> | Entity Reference |
| <input type="checkbox"/> | Entity Reference Behavior Example |
| <input checked="" type="checkbox"/> | Inline Entity Form |

Figure 7.2:



Click “Save configuration” at the bottom of the page:



Save configuration

Figure 7.3:

Let's now enable the following modules: “Commerce Coupon”, “Commerce Coupon Fixed Amount”, “Commerce Coupon Percentage Amount” and “Commerce Couple UI”.



▼ COMMERCE COUPON

| ENABLED | NAME | VERSION |
|-------------------------------------|--|-----------------------|
| <input checked="" type="checkbox"/> | Commerce Coupon | 7.x- 1.0- beta7 |
| <input checked="" type="checkbox"/> | Commerce Coupon Fixed Amount | 7.x- 1.0- beta7 |
| <input checked="" type="checkbox"/> | Commerce Coupon Percentage Amount | 7.x- 1.0- beta7 |
| <input checked="" type="checkbox"/> | Commerce Coupon UI | 7.x- 1.0- beta7 |

Figure 7.4:

Let's now add coupons you can use for your store. Click "Store":





Figure 7.5:

You will notice a new link – **Create Coupon** – in the new page. Click it:

- Customer profiles**
Manage customer profiles and profile types in the store.
- Orders**
Manage orders in the store.
- Products**
Manage products and product types in the store.
- Create Coupon**
Create a new coupon
- Configuration**
Configure settings and business rules for your store.

Figure 7.6:

Let's start by creating a coupon that offers a fixed discount on a shopper's bill. Click “**Create Fixed coupon**”:





Figure 7.7:

Fill in the following details:

- **Fixed Amount:** The amount you wish to offer as a discount for the coupon.
- **Coupon Code:** Provide an easy-to-remember code for your coupon.
- **Maximum number of Uses:** How many times would you allow shoppers to use the coupon?
- **Active:** Tick the box if you want to activate the coupon so that shoppers can use it.

Refer the screenshot below for more details. Click “Save Coupon” once you are done:



Home » Administration » Store » Coupons

Create Fixed coupon

Fixed Amount *

3.50 USD

Coupon Code

RC-Coupon

Maximum number of Uses

100

Number of times that coupon code can be used by any customer on the sit

Active

Indicates if the coupon can be used or not.

Save coupon

Figure 7.8:

Your coupon has been saved. Click “Create Coupon”:

 Create Coupon

Figure 7.9:

Click “Create Percentage coupon”:





Figure 7.10:

Fill in the coupon's details just like you created a coupon for the fixed amount above. The only difference is the “**Percentage Amount**” field. It denotes the percentage deduction you wish to offer shoppers on their purchases:



Home » Administration » Store » Coupons

Edit •

Coupon Code

Coupon-Percentage-01

Maximum number of Uses

100

Number of times that coupon code can be used

Percentage Amount *

35.00 %

Active

Indicates if the coupon can be used or not.

Save coupon

Figure 7.11:

The two coupons have successfully been added:



| Create Coupon | |
|----------------------|-------------------|
| COUPON CODE | TYPE |
| RC-Coupon | Fixed coupon |
| Coupon-Percentage-01 | Percentage coupon |

Figure 7.12:

I'm going to check out my cart and use both the coupon codes to verify whether they are working or not:

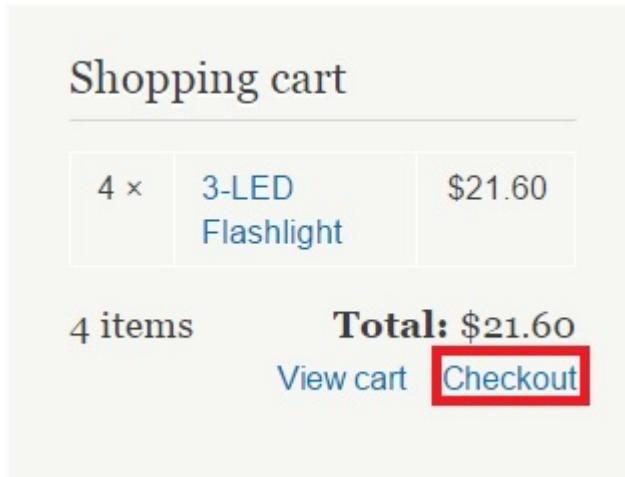


Figure 7.13:

Confirm the products in your cart and click “Continue to next step”:



Confirm your cart

Confirm the items in your cart before proceeding.

The screenshot shows a shopping cart summary. At the top, a dropdown menu is open, showing the option "Shopping cart contents". Below this is a table with the following data:

| Product | Price | Quantity | Total |
|------------------|--------|----------|---------|
| 3-LED Flashlight | \$5.40 | 4 | \$21.60 |

Below the table are three summary rows:

| | |
|--------------------|----------------|
| Subtotal | \$19.64 |
| VAT | \$1.96 |
| Order total | \$21.60 |

At the bottom of the page, there are two buttons: "Continue to next step" (highlighted with a red box) and "Cancel".

Figure 7.14:

You will reach a screen where you will be asked to type in your coupon code. We are typing in RC-Coupon, the coupon code we created a little while back. Click “**Add coupon**”:

The screenshot shows a form titled "Coupons". Under the heading "Coupon Code", the text "RC-Coupon" is entered into a field. Below the field, the placeholder text "Enter here your coupon code." is visible. At the bottom of the form is a large red button labeled "Add coupon".

Figure 7.15:



Let's add the second coupon as well:

Coupons

Coupon Code

Enter here your coupon code.

Add coupon

| Coupon Code | Granted amount |
|-------------|----------------|
| RC-Coupon | \$3.50 |

Continue to next step or [Go back](#)

Figure 7.16:

Your coupons will be displayed as shown below along with the amount that will be deducted from final bill.
Click “**Continue to next step**”:



The screenshot shows a user interface for managing coupons. At the top, there is a header labeled "Coupons". Below the header, there is a section titled "Coupon Code" with a text input field. A placeholder text "Enter here your coupon code." is visible inside the input field. Below the input field is a button labeled "Add coupon". Underneath these elements is a table listing two coupons:

| Coupon Code | Granted amount |
|----------------------|----------------|
| Coupon-Percentage-01 | \$7.56 |
| RC-Coupon | \$3.50 |

The entire table row for "Coupon-Percentage-01" is highlighted with a red border. At the bottom of the page, there is a navigation bar with two buttons: "Continue to next step" and "Go back". The "Continue to next step" button is highlighted with a red border.

Figure 7.17:

In the review order page, you will be able to view the discounted \$3.50 and \$7.56 as part of your final bill just like in the screenshot below:



Review order

Review your order before continuing.

| Shopping cart contents | | | |
|------------------------|--------|----------|---------------------------|
| Product | Price | Quantity | Total |
| 3-LED Flashlight | \$3.51 | 4 | \$14.04 |
| | | | Subtotal \$19.64 |
| | | | Fixed coupon -\$3.50 |
| | | | Percentage coupon -\$7.56 |
| | | | VAT \$1.96 |
| | | | Order total \$10.54 |

Figure 7.18:



7.2 Applying A Discount To All Orders Above \$50

In this section, we will apply a flat discount of \$6 to all orders above \$50.

Downloaded and unzip the **Commerce Discount module** in sites/all/modules folder. This module provides us with an excellent UI to configure discounts for shopping carts. Let's go ahead and enable the module. Click “**Modules**” on the top-level menu:



Figure 7.19:

Search and enable “**Inline Conditions**”:

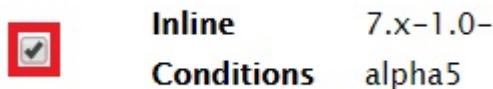


Figure 7.20:

Click “**Save configuration**”. Search and enable the following modules:

- **Commerce Discount**: This module is responsible for providing us with the basic discount functionality and the UI.
- **Commerce Discount Date**: This module allows us to add date functionality for discounts, allowing us to specify when a discount will expire.
- **Commerce Discount Usage**: This module helps to specify how many times a particular discount can be used.





Figure 7.21:

A new “Discounts” link will appear in the “Store” section. Click it:

The image shows a screenshot of a Drupal administrative interface. At the top, there is a breadcrumb navigation bar with the text "Home » Administration". Below this, a main navigation bar has a "Store" item with a plus sign icon. The "Store" item is expanded, revealing a list of links:

- Coupons** (link to manage coupons)
- Customer profiles** (link to manage customer profiles and profile types)
- Discounts** (link to manage discounts, highlighted with a red border)

Figure 7.22:



Click “Add discount”:



Figure 7.23:

Now let's create a flat \$6 discount for all orders above \$50. These are the fields you will encounter in the new page:

- **Admin title:** The title that will be associated with the discount for back-end purposes.
- **Name:** The title that will be seen by front-end users.

View the screenshot below for more details:

A screenshot of a "Add order discount commerce discount" form. It has two main sections:

- Admin title ***: The input field contains "\$6 Discount for orders above \$50", which is highlighted with a red box. Below it is a note: "Shown only on management screens, not shown to customers."
- Name**: The input field contains "\$6 Discount for orders above \$50", which is highlighted with a red box. Below it is a note: "Shown to customers."

Figure 7.24:

- **Choose discount type:** Specify whether the discount is based on the order or product. In our case, the discount will be based on the order's total value:



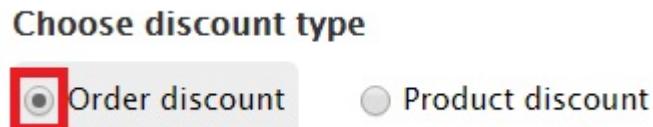


Figure 7.25:

- **Order discount conditions:** The values I provided in the dropdown – “Total amount” and “greater than” are self-explanatory. I typed in 50 for the USD field. Enter an amount of your choice:

Order discount conditions

Apply to: USD

*The discount is active only if the order total matches the above condition.
(the other order discounts are not taken into the comparison process)*

Negate

Figure 7.26:

- **Maximum overall usage:** How many times should the discount be used?
- **Maximum usage per customer:** How many times does each user get to use the discount?

We have left both fields blank because we are not going to monitor discounts based on usages.

Maximum overall usage

Enter the maximum number of times this discount may be used on the site, by anyone. Leave blank for unlimited.

Maximum usage per customer

Enter the maximum number of times a specific person (as identified by email) may use this discount. Leave blank for unlimited.

Figure 7.27:

We want the discount to be used for a month, irrespective of how many times they are used:



Discount dates

07/20/2015 End date 08/20/2015

Figure 7.28:

Click “Save discount” at the bottom of the page:

Save discount

Figure 7.29:

The discount has been saved:

| Name | Offer | Type | Active | Status | Operations |
|------------------------------------|--------|----------------|---|--------|----------------------|
| \$6 Discount for orders above \$50 | \$ off | Order discount | <ul style="list-style-type: none">• Unlimited• Unlimited usage per customer• Used 0 times | Active | edit |

Figure 7.30:

We'll look at the cart to verify whether the discount works smoothly:

Shopping cart

| Product | Price | Quantity | Remove | Total |
|------------------|---------|----------|------------------------|---------|
| 6-LED Flashlight | \$11.55 | 5 | Remove | \$57.75 |

Total: \$57.75

[Update cart](#)

[Checkout](#)

Figure 7.31:



As can be seen in the screenshot below, \$6 has been deducted from our final order worth \$50:

Confirm your cart

Confirm the items in your cart before proceeding.

| Shopping cart contents | | | |
|------------------------------------|---------|----------|---------------------|
| Product | Price | Quantity | Total |
| 6-LED Flashlight | \$11.55 | 5 | \$57.75 |
| | | | Subtotal \$52.50 |
| \$6 Discount for orders above \$50 | | | -\$6.00 |
| | | | VAT \$5.25 |
| | | | Order total \$51.75 |

Figure 7.32:



Chapter 8

Shipping

Shipping rates play an integral part in the success of online stores. You should assign it high importance. If your rates are too high, there is a chance shoppers will disappear at the first opportunity. This chapter will help you configure the shipping rates for your store. You'll learn how to add:

- flat rate shipping
- flat rate shipping based on shipping address
- free shipping for orders over \$150
- FedEx and UPS shipping integration



8.1 Flat Rate Shipping

In this section, we are going to explore the basic shipping configuration for Drupal Commerce. We will keep things easy by applying a flat shipping rate of \$10 to all orders.

Download and unzip the following modules to your site's Modules folder:

- [Commerce Shipping](#)
- [Commerce Flat Rate](#)

Click “**Modules**” on the top-level menu:



Figure 8.1:

Search for the newly downloaded modules. Enable “**Flat Rate**”, “**Shipping**” and “**Shipping UI**”:

| COMMERCE (SHIPPING) | | |
|-------------------------------------|--------------------------------|---------------|
| ENABLED | NAME | VERSION |
| <input checked="" type="checkbox"/> | Flat Rate | 7.x-1.0-beta2 |
| <input checked="" type="checkbox"/> | Shipping | 7.x-2.2 |
| <input type="checkbox"/> | Shipping Method Example | 7.x-2.2 |
| <input checked="" type="checkbox"/> | Shipping UI | 7.x-2.2 |

Figure 8.2:



Click “Save Configuration” at the bottom of the page:



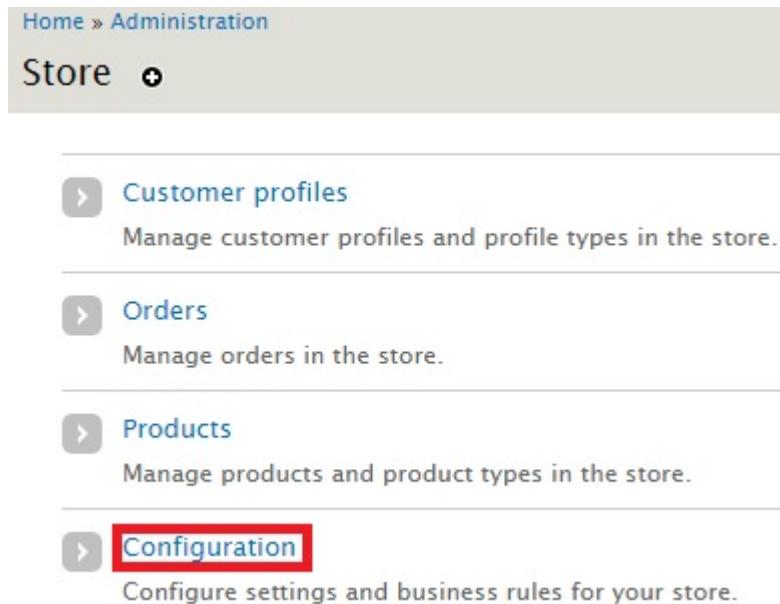
Figure 8.3:

Click “Store” on the top-level menu:



Figure 8.4:

Click “Configuration”:



Home » Administration

Store •

Customer profiles
Manage customer profiles and profile types in the store.

Orders
Manage orders in the store.

Products
Manage products and product types in the store.

Configuration
Configure settings and business rules for your store.

Figure 8.5:

Click “Shipping”:



Home » Administration » Store

Configuration •

- [**Checkout settings**](#)
Customize the checkout form and configure checkout rules.
- [**Currency settings**](#)
Configure the default currency and display settings.
- [**Line item types**](#)
Manage line item types for your store.
- [**Order settings**](#)
Configure general order settings, fields, and displays.
- [**Payment methods**](#)
Enable and configure payment method rule configurations.
- [**Product pricing rules**](#)
Enable and configure product pricing rules and pre-calculation.
- [**Shipping**](#)
Manage shipping methods and services.
- [**Taxes**](#)
Manage tax rates and types.

Figure 8.6:

On the new page, you will find 3 tabs on the top-right:

- **SHIPPING SERVICES**
- **SHIPPING METHODS**
- **CALCULATION RULES**



Figure 8.7:



“SHIPPING SERVICES” is selected by default. Click “**Add a flat rate service**”:

The screenshot shows a Drupal administrative interface. At the top, a breadcrumb navigation bar displays: Home » Administration » Store » Configuration. Below this, a main title "Shipping" is followed by a plus sign icon. The main content area contains the following text: "Shipping services are the various delivery options customers may choose from when placing an order." Below this text is a button labeled "+ Add a flat rate service", which is highlighted with a red rectangular border. Further down, there is a section titled "TITLE" with a placeholder text: "There are no services defined for the *Flat rate* shipping method."

Figure 8.8:

Give a title and the flat rate you wish to apply across all orders. We have provided a flat rate of \$10. Click “**Save flat rate**”.



Home » Administration » Store » Configuration » Shipping

Shipping •

 • There is a security update available
• There are security updates available

Title *
 Mach

The administrative title of this flat rate. It is recom

Display title

The front end display title of this flat rate shown t

Description

Describe this flat rate if necessary. The text will be

Base rate *
 USD

Figure 8.9:

You can see the newly created Shipping Service in the table:





Figure 8.10:

The next step is to tweak the way shipping information is displayed so that we can review the final order.

Click “Store”:



Figure 8.11:

Click “Configuration”:



- ▶ **Customer profiles**
Manage customer profiles and profile types in the store.
- ▶ **Orders**
Manage orders in the store.
- ▶ **Products**
Manage products and product types in the store.
- ▶ **Configuration**
Configure settings and business rules for your store.

Figure 8.12:

And finally, click “**Checkout settings**”:



- ▶ **Checkout settings**
Customize the checkout form and configure checkout rules.
- ▶ **Currency settings**
Configure the default currency and display settings.
- ▶ **Line item types**
Manage line item types for your store.
- ▶ **Order settings**
Configure general order settings, fields, and displays.
- ▶ **Payment methods**
Enable and configure payment method rule configurations.
- ▶ **Product pricing rules**
Enable and configure product pricing rules and pre-calculation.

Figure 8.13:

In the checkout pane, drag “**Shipping information**” and “**Shipping service**” to the top just under “**Confirm your cart**”. This will ensure that the flat rate is shown to the customer in the beginning itself and added to his bill:



 Checkout pane positions saved.

Use the table below to build your checkout form:

| CHECKOUT PANE | |
|-------------------------------------|------------------------|
| Confirm your cart | |
| ⊕ | Shopping cart contents |
| ⊕ | Shipping service |
| ⊕ | Shipping information |
| Fill in your address details | |
| ⊕ | Billing information |

Figure 8.14:

Let's now perform a checkout to observe the shipping charges. We clicked on "Checkout" to initiate the process:



The screenshot shows a Drupal-based website with a blue header. The header features the Drupal logo (a stylized blue drop) and the text "Drupal Tutorials". A "Home" button is visible in the top-left corner of the header.

The main content area displays a "Shopping cart" summary. It shows 5 items: "3-LED Flashlight" at \$17.55 each. The total is listed as "Total: \$17.55". Below the summary are two buttons: "View cart" and "Checkout". The "Checkout" button is highlighted with a red border.

To the right of the cart summary, there is a blog post titled "Father's Day". The post was submitted by "admin" on "Fri, 05/15/2015 - 04:59". The content of the post discusses Father's Day as a celebration honoring fathers in society, noting that many countries celebrate it on different days than the U.S. The text is cut off at the end.

Figure 8.15:

See the first screen in the Checkout process. As specified by us, “**Shipping service**” and “**Shipping information**” appear below in the confirmation screen. A shipping flat rate of \$10 is highlighted as well:



Confirm your cart

Confirm the items in your cart before proceeding.

▼ Shopping cart contents

| Product | Price | Quantity | Total |
|------------------|--------|----------|---------|
| 3-LED Flashlight | \$3.51 | 5 | \$17.55 |

Subtotal \$24.55
Fixed coupon -\$3.50
Percentage coupon -\$9.45
VAT \$2.45
Order total \$14.05

Shipping service

Flat rate \$10: \$10.00

Shipping information

Country *

United States ▾

Figure 8.16:

Click “**Continue to next step**” and proceed to the final screen where you can view the final pricing:



Review order

Review your order before continuing.

| Shopping cart contents | | | |
|------------------------|-------------------|----------|---------|
| Product | Price | Quantity | Total |
| 3-LED Flashlight | \$3.51 | 5 | \$17.55 |
| | | | |
| | Subtotal | | \$24.55 |
| | Fixed coupon | | -\$3.50 |
| | Percentage coupon | | -\$9.45 |
| | VAT | | \$2.45 |
| | Flat rate \$10 | | \$10.00 |
| | Order total | | \$24.05 |

Figure 8.17:

Notice that a flat rate of \$10 has been added to the final bill. This indicates that the shipping functionality has been successfully implemented on your site.



8.2 Flat Rate Shipping Based On Shipping Address

In this section, we are going to determine shipping rates based on the shopper's location.

We are going to charge a flat rate of \$15 if the shipping address is for California. All other states will continue having the \$10 shipping rate.

Let's start. Click "Store":



Figure 8.18:

Click "Configuration":



Figure 8.19:

Click "Shipping":

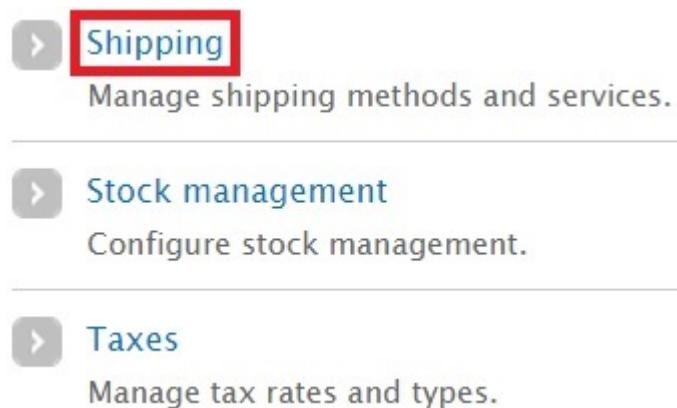


Figure 8.20:

You will notice the default flat rate already present there – it's the one we configured to impose a \$10 flat rate in the last section. Click "Add a flat rate service":



| + Add a flat rate service | |
|---|---|
| TITLE | OPERATIONS |
| Flat rate (Machine name: flat_rate) | edit configure component delete |

Figure 8.21:

In the new screen, we want you to create a new flat rate. Give it a custom title and display of your choice. We have given a base rate of \$15 as can be seen below. Click “**Save flat rate**”:



Title *

Machine name: Machine 1

The administrative title of this flat rate. It is recommended that t

Display title

The front end display title of this flat rate shown to customers. L

Description

Describe this flat rate if necessary. The text will be displayed in t

Base rate *

USD

Include tax in this rate

Saving a rate tax inclusive will bypass lat

Figure 8.22:

The new flat rate has been saved:



TITLE

Flat rate (Machine name: flat_rate)

Flat Rate For California (Machine name: flat_rate_for_california)

A tax rate of \$15 will be applied for orders shipping to California.

Figure 8.23:

Click configure component on the right of “Flat Rate For California”:



Figure 8.24:

You will now be taken to the Rules page where you can configure how you want the new flat rate to behave. Notice the breadcrumb on the top to realize which page you have reached:

Home » Administration » Configuration » Workflow » **Rules** » Components

Editing rule "Rate Flat Rate For California" •

Figure 8.25:

You will need to create two conditions. The first condition ensures that only US orders get the offer. The second condition ensures that only California is charged \$15 shipping rates.

Click “Add condition”:

Conditions

ELEMENTS

None

+ Add condition + Add or + Add and

Figure 8.26:



The page now expands to show multiple fields.

For the field “**Select the condition to add**”, select “Order address component comparison”. This ensures that the shipping address is validated:

Select the *condition* to add

Data comparison

Data

- Data comparison
- Data value is empty
- List contains item
- List count comparison
- Text comparison

Entities

- Entity exists by property
- Entity has field
- Entity is new
- Entity is of bundle
- Entity is of type
- User has field access

Commerce Cart

- Order is a shopping cart

Commerce Order

- Order address component comparison**
- Order contains a particular product
- Order contains products of particular product types
- Total product quantity comparison

Figure 8.27:

Under “**ADDRESS COMPONENT**”, select Country. This is to specify that the flat rate is applicable only for orders from the US:



ADDRESS COMPONENT

The actual address component you want

Value *

Country

- Select -

Country

Full name

First name

Last name

Company name

Thoroughfare (Street address)

Premise (Building)

Sub-premise (Suite)

Locality (City)

Dependent locality (Town)

Administrative area (State / Province)

Sub-administrative area (District)

Postal code

The value to compare against the address



Figure 8.28:

Under “**OPERATOR**”, select equals:



OPERATOR

The comparison operator.

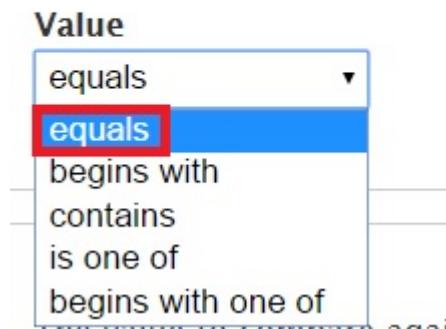


Figure 8.29:

Under “Value”, select US as the country you seek this tax rate for:

A screenshot of a form field titled "Value". The input field contains the value "US", which is highlighted with a red box.

Figure 8.30:

Let's add one more condition so that only orders from California are imposed with the \$15 shipping rate. Click “Add condition” once again:



Conditions

ELEMENTS

- ⊕ Order address component comparison
Parameter: *Order*: [commerce_order], *Address*: Address, *Address component*: Country, *Value*: **US**

+ Add condition **+ Add or** **+ Add and**

Figure 8.31:

Select **Order address component comparison**:



Select the *condition* to add

Data comparison

Data

- Data comparison
- Data value is empty
- List contains item
- List count comparison
- Text comparison

Entities

- Entity exists by property
- Entity has field
- Entity is new
- Entity is of bundle
- Entity is of type
- User has field access

Commerce Cart

- Order is a shopping cart

Commerce Order

Order address component comparison

- Order contains a particular product
- Order contains products of particular product types
- Total product quantity comparison

Figure 8.32:

Select “**Administrative area (State / Province)**” from the dropdown. This signifies that you are laying down the condition for a state.



ADDRESS COMPONENT

The actual address component you want

Value *

- Select -
- Select -
- Country
- Full name
- First name
- Last name
- Company name
- Thoroughfare (Street address)
- Premise (Building)
- Sub-premise (Suite)
- Locality (City)
- Dependent locality (Town)
- Administrative area (State / Province)**
- Sub-administrative area (District)
- Postal code

Figure 8.33:

Under “**OPERATOR**”, select equals:

OPERATOR

The comparison operator.

Value

equals

Figure 8.34:

Under “**VALUE**”, we have typed in CA. The system accepts only 2 character for this field:



| VALUE |
|----------------------|
| The value to compare |
| Value * |
| CA |

Figure 8.35:

The conditions have now been saved:

Conditions

| ELEMENTS |
|--|
| <ul style="list-style-type: none"> + Order address component comparison Parameter: Order: [commerce_order], Address: Address, Address component: Country, Value: US + Order address component comparison Parameter: Order: [commerce_order], Address: Address, Address component: Sub-administrative area ..., Value: CA CT DE |
| + Add condition + Add or + Add and |

Figure 8.36:

Okay, now you have set the flat rate to impose a \$15 on all orders originating from California. But there's still more for you to do to make this possible. Remember the original \$10 shipping flat rate for all states that was configured in the earlier article? You will have to set 2 conditions to ensure that the \$10 shipping rate isn't applied to California anymore.

Let's go to "Store" -> "Configuration" -> "Shipping". Click configure component:

| TITLE | OPERATIONS |
|--|--|
| Flat rate (Machine name: flat_rate) | edit configure component delete |
| Flat Rate For California (Machine name: flat_rate_for_california) A tax rate of \$15 will be applied for orders shipping to California. | edit configure component delete |

Figure 8.37:

The first condition should reflect the country just like we did before. Select **Order address component**



comparison:

Select the *condition* to add

Data comparison

Data

- Data comparison
- Data value is empty
- List contains item
- List count comparison
- Text comparison

Entities

- Entity exists by property
- Entity has field
- Entity is new
- Entity is of bundle
- Entity is of type
- User has field access

Commerce Cart

- Order is a shopping cart

Commerce Order

- Order address component comparison**
- Order contains a particular product
- Order contains products of particular product types
- Total product quantity comparison

Figure 8.38:

Fill in the other fields like we did earlier:



ADDRESS
The address associated with this order.

Value *
▼

ADDRESS COMPONENT
The actual address component you want

Value *
▼

OPERATOR
The comparison operator.

Value
▼

VALUE
The value to compare against the address component. This can be used for comparisons with multiple possible values.

Value *

REPLACEMENT PATTERNS

Negate
If checked, the condition result is negated.

Figure 8.39:



Similarly, fill in details for California (CA):



ADDRESS
The address associated with this order w

Value *
▼

ADDRESS COMPONENT
The actual address component you want

Value *
▼

OPERATOR
The comparison operator.

Value
▼

VALUE
The value to compare against the address comparisons with multiple possible values

Value *

REPLACEMENT PATTERNS

[Switch to data selection](#)

Negate
If checked, the condition result is negated

Save

Figure 8.40:



Notice the “**Negate**” box has been ticked. This ensures that the \$10 rate won’t be applied for orders that feature these fields – CA and USA. Here are the saved conditions for the \$10 Rate Flat rate:

- ⊕ NOT Order address component comparison

Parameter: *Order*: [commerce_order], *Address*: Address, *Address component*: Country, *Value*: **US**
- ⊕ NOT Order address component comparison

Parameter: *Order*: [commerce_order], *Address*: Address, *Address component*: Administrative area (State ...), *Value*: **CA**

Figure 8.41:

Let’s now add an OR group to club these conditions together. OR ensures that the conditions work together:



Figure 8.42:

OR gets added to the table. Let’s drag it to the very top:

Conditions

| ELEMENTS | |
|---|--|
| ⊕ | OR* |
| ⊕ | NOT Order address component comparison * |
| Parameter: <i>Order</i> : [commerce_order], <i>Address</i> : Address, <i>Address component</i> : Country, <i>Value</i> : US | |
| ⊕ | NOT Order address component comparison * |
| Parameter: <i>Order</i> : [commerce_order], <i>Address</i> : Address, <i>Address component</i> : Administrative area (State ...), <i>Value</i> : CA | |
| + Add condition + Add or + Add and | |

Figure 8.43:

Let’s now drag the conditions towards the right so that they become a part of the OR group:



Conditions

ELEMENTS

⊕ OR*

NOT Order address component comparison *

Parameter: *Order*: [commerce_order], *Address*: Address, *Address component*: Country, *Value*: US

NOT Order address component comparison *

Parameter: *Order*: [commerce_order], *Address*: Address, *Address component*: Administrative area (State ...), *Value*: CA

[+ Add condition](#) [+ Add or](#) [+ Add and](#)

Figure 8.44:

Click “Save changes”.

Let’s now try checking out a product with a California shipping address. Let’s see how the bill reflects the shipping rate for deliveries in California and other states.

Let’s go to the checkout page:

Shopping cart

| Product | Price | Quantity | Remove | Total |
|------------------|---------|----------|------------------------|---------|
| 6-LED Flashlight | \$11.55 | 1 | Remove | \$11.55 |

Total: \$11.55

[Update cart](#) Checkout

Figure 8.45:

We provided a random California-based address:



Confirm your cart

Confirm the items in your cart before proceeding.

▼ Shopping cart contents

| Product | Price | Quantity | Total |
|------------------|---------|-------------|----------------|
| 6-LED Flashlight | \$11.55 | 1 | \$11.55 |
| | | Subtotal | \$10.50 |
| | | VAT | \$1.05 |
| | | Order total | \$11.55 |

Shipping information

Country*
United States ▾

Full name*
Michael

Address 1*
Avenue

Address 2

City*
Mountain View

State*
California ▾

ZIP code*
41653

Figure 8.46:

Proceed to the next step. You will notice the \$15 shipping rate being applied for my order:



Shipping service

Flat Shipping Rate For California: \$15.00

A tax rate of \$15 will be applied for orders shipping to California.

[Continue to next step](#) or [Go back](#)

Figure 8.47:

Click forward to the final screen and you will see the \$15 as part of the final bill. The functionality is working.

Review order

Review your order before continuing.

Shopping cart contents

| Product | Price | Quantity | Total |
|------------------|---------|----------|---------|
| 6-LED Flashlight | \$11.55 | 1 | \$11.55 |

Shipping information

| | |
|---------------|----------|
| Michael | |
| Avenue | |
| Mountain View | CA 41653 |
| United States | |

Figure 8.48:



We'll now perform a checkout to test whether a flat rate of \$10 applies for non-California state orders:

Shopping cart

| Product | Price | Quantity | Remove | Total |
|-----------------------------|---------|--------------------------|------------------------|---------|
| 3-LED Flashlight | \$5.40 | 1 | Remove | \$5.40 |
| 6-LED Flashlight | \$11.55 | 2 | Remove | \$23.10 |
| Total: \$28.50 | | | | |
| Update cart | | Checkout | | |

Figure 8.49:

We are using a New Mexico address:



Confirm your cart

Confirm the items in your cart before proceeding.

| Shopping cart contents | | | |
|------------------------|---------|-------------|---------|
| Product | Price | Quantity | Total |
| 3-LED Flashlight | \$5.40 | 1 | \$5.40 |
| 6-LED Flashlight | \$11.55 | 2 | \$23.10 |
| | | Subtotal | \$25.91 |
| | | VAT | \$2.59 |
| | | Order total | \$28.50 |

Shipping information

Country *
United States

Full name *
Mark

Address 1 *
Hudson Avenue

Address 2

City *
Bellavue

State *
New Mexico

ZIP code *
87113

Figure 8.50:



Proceed further in the checkout process and you will notice a flat rate of \$10 being added to the bill. This proves the functionality is correct:

Shipping service

Flat rate \$10: \$10.00

[Continue to next step](#) or [Go back](#)

Figure 8.51:

In the final screen, you will see \$10 added to the bill:

Review order

Review your order before continuing.

Shopping cart contents

| Product | Price | Quantity | Total |
|------------------|---------|----------|---------|
| 3-LED Flashlight | \$5.40 | 1 | \$5.40 |
| 6-LED Flashlight | \$11.55 | 2 | \$23.10 |

Subtotal \$25.91
VAT \$2.59
 Flat rate \$10 \$10.00
Order total \$38.50

Shipping information

Mark
Hudson Avenue
Bellavue NM 87113
United States

Figure 8.52:



We have successfully added a flat shipping rate of \$15 to California-based orders while keeping the rate \$10 for all other states.



8.3 Free Shipping For Orders Over \$150

In this section, we'll offer free shipping on orders over \$150. Let's get started. Click "Store":



Figure 8.53:

Click "Configuration":

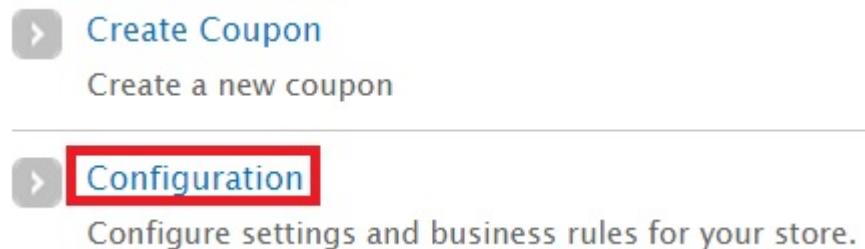


Figure 8.54:

Click "Add a flat rate service":



Figure 8.55:

In the new page, type in your new flat rate's details. Note that we have provided the base rate as 0 since I intend to offer free shipping for orders greater than \$150. Click "Save flat rate".



Home » Administration » Store » Configuration » Shipping

Shipping

Title *

Free Shipping For Orders Above \$150

The administrative title of this flat rate. It is recommended that this title be descriptive of the flat rate.

Display title

Free Shipping For Orders Above \$150

The front end display title of this flat rate shown to customers. This title will be displayed in the cart and checkout process.

Description

Shoppers won't have to pay for orders worth more than \$150.

Describe this flat rate if necessary. The text will be displayed in the cart and checkout process.

Base rate *

0 USD

Include tax in this rate

- None -

Saving a rate tax inclusive will bypass taxation rules.

Save flat rate **Cancel**

Figure 8.56:



Let's now add a condition that will ensure this flat rate is applied to only orders above \$150:

Conditions

ELEMENTS

None

+ Add condition + Add or + Add and

Figure 8.57:

These are the fields you will have to enter values for:

- **Select the condition to add:** Choose “Data comparison” from the dropdown:

Select the *condition to add*

Data comparison ▾

Continue

Figure 8.58:

- **DATA TO COMPARE:** In the “Data selector” dropdown, you will have to specify the data type that will have to be compared. Since we are trying to compare with the order total, “commerce-order:commerce-order-total:amount” has been iteratively selected and highlighted:



Compare two data values of the same type with each other.

DATA TO COMPARE

The data to be compared, specified by using a data selector, e.g. "node:author:name".

Data selector *

commerce-order:commerce-order-total:amount

commerce-order:commerce-order-total:amount (Amount)
commerce-order:commerce-order-total:amount-decimal (Amount (decimal))

Data types: Select data of the type *any*.

▶ DATA SELECTORS

Continue

Figure 8.59:

- **OPERATOR:** Choose the value “is greater than” from the dropdown.

OPERATOR

The comparison operator.

Value

is greater than ▾

equals
is one of
is lower than
is greater than

Figure 8.60:

- **DATA VALUE:** This is where you specify the figure you want to compare against. In our case, the



figure is 150. You can't provide a numerical value using the “Data selector” dropdown. You will have to click “Switch to the direct input mode”:

DATA VALUE

The value to compare the data with.

Data selector *

The data selector helps you drill down into the data available to Rules. To make entity fields available in the online documentation.

Data types: Select data of the type *Decimal number*.

▶ DATA SELECTORS

▶ ADD OFFSET

Switch to the direct input mode

Figure 8.61:

You can now enter the numerical value:

DATA VALUE

The value to compare the data with.

Value *

150

Switch to data selection

Figure 8.62:

Click “Save” at the bottom of the page. The flat rate and its condition have been saved. Note that we configured 2 flat rates in previous sections – “Flat rate” (a \$10 flat rate on all orders) and “Flat Rate For



California” (a \$15 flat rate on orders from California). We will have to create a new condition for both these flat rates so that they don’t apply for orders more than \$150.

Let’s configure “Flat rate” first:

The screenshot shows the configuration interface for a 'Flat rate' shipping method. At the top, there's a 'TITLE' section with the text 'Flat rate (Machine name: flat_rate)' highlighted by a red box. Below this, there are two sections: 'Flat Rate For California (Machine name: flat_rate_for_california)' which states 'A tax rate of \$15 will be applied for orders shipping to California.', and 'Free Shipping For Orders Above \$150 (Machine name: free_shipping_for_orders_above_1)' which states 'Shoppers won't have to pay for orders worth more than \$150.'.

Figure 8.63:

Click “Configure component”.

Click “Add condition”:

Conditions

The screenshot shows the 'Conditions' configuration interface. It starts with an 'ELEMENTS' section containing an 'OR' operator. Below it, there are two conditions listed: 'NOT Order address component comparison' (Parameter: Order: [commerce_order], Address: Address, Address component: Country, Value: US) and another 'NOT Order address component comparison' (Parameter: Order: [commerce_order], Address: Address, Address component: Administrative area (State ...), Value: CA). At the bottom, there are three buttons: '+ Add condition' (highlighted with a red box), '+ Add or', and '+ Add and'.

Figure 8.64:

Create a condition that’s identical to the one we created above. Tick the box against “Negate” to ensure that the flat rate doesn’t apply to it:



Compare two data values of the same type with each other.

DATA TO COMPARE

The data to be compared, specified by using a data selector, e.g. "node:author:name".

Selected data: commerce-order:commerce-order-total:amount

OPERATOR

The comparison operator.

Value

is greater than ▾

DATA VALUE

The value to compare the data with.

Value *

150

[Switch to data selection](#)



If checked, the condition result is negated such that it returns TRUE if it evaluates to FALSE.

[Save](#)

Figure 8.65:

The condition has been saved:



Conditions

ELEMENTS

⊕ OR

⊕ NOT Order address component comparison
Parameter: *Order*: [commerce_order], *Address*: Address, *Address component*: Country, *Value*: US

⊕ NOT Order address component comparison
Parameter: *Order*: [commerce_order], *Address*: Address, *Address component*: Administrative area (State ...), *Value*: CA

⊕ NOT Data comparison
Parameter: *Data to compare*: [commerce-order:commerce..., *Operator*: is greater than, *Data value*: 150

[+ Add condition](#) [+ Add or](#) [+ Add and](#)

Figure 8.66:

We are going to create a similar condition for “**Flat Rate For California**”. We clicked “**configure component**” and provided the same values as we did in the earlier conditions:



Compare two data values of the same type with each other.

DATA TO COMPARE

The data to be compared, specified by using a data selector, e.g. "node:author:name".

Selected data: commerce-order:commerce-order-total:amount

OPERATOR

The comparison operator.

Value

is greater than ▾

DATA VALUE

The value to compare the data with.

Value *

150

[Switch to data selection](#)



Negate

If checked, the condition result is negated such that it returns TRUE if it evaluates to FALSE.

[Save](#)

Figure 8.67:

The condition has been saved:



Conditions

ELEMENTS

- ⊕ Order address component comparison
Parameter: *Order*: [commerce_order], *Address*: Address, *Address component*: Country, *Value*: US
- ⊕ Order address component comparison
Parameter: *Order*: [commerce_order], *Address*: Address, *Address component*: Administrative area (State ...), *Value*: CA
- ⊕ NOT Data comparison
Parameter: *Data to compare*: [commerce-order:commerce..., *Operator*: is greater than, *Data value*: 150

[+ Add condition](#) [+ Add or](#) [+ Add and](#)

Figure 8.68:

Let's perform a checkout to test this free shipping functionality. We have filled my cart with an order worth more than \$150:

Shopping cart

| Product | Price | Quantity | Remove | Total |
|------------------|---------|----------|------------------------|----------|
| 6-LED Flashlight | \$11.55 | 15 | Remove | \$173.25 |

Total: \$173.25

[Update cart](#)

[Checkout](#)

Figure 8.69:

We are providing a California shipping address. Earlier, a shipping rate of \$15 was imposed on all California-based orders. Since we specified a new condition above, \$15 will no longer be applicable for orders above \$150.



| Product | Price | Quantity | Total |
|------------------|--------------|-----------------|--|
| 6-LED Flashlight | \$11.55 | 15 | \$173.25 |
| | | | Subtotal \$157.50 |
| | | | \$6 Discount for orders above \$50 -\$6.00 |
| | | | VAT \$15.75 |
| | | | Order total \$167.25 |

Shipping information

Country *

United States

Full name *

Michael

Address 1 *

Avenue

Address 2

City *

Mountain View

State *

California

Figure 8.70:

The shipping service has rightly invoked free shipping for the user:



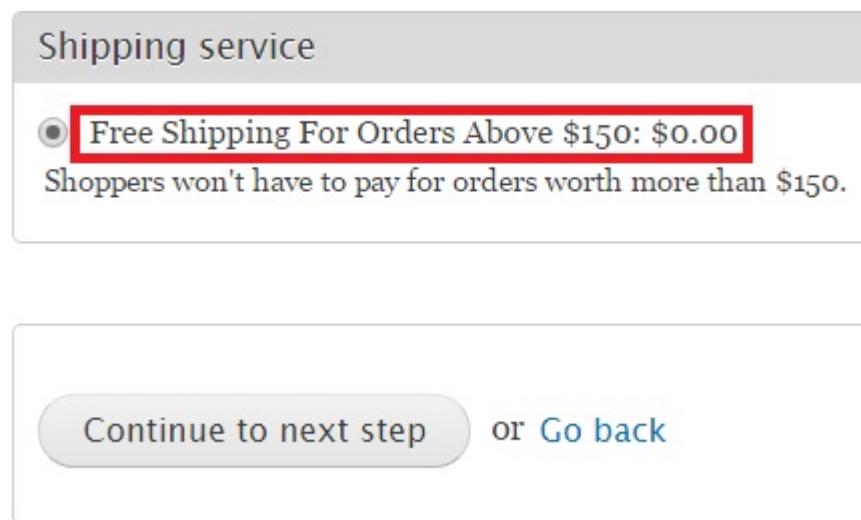


Figure 8.71:

And observe how the free shipping functionality is reflected in the final screen:

Review order

Review your order before continuing.

| Shopping cart contents | | | |
|------------------------|---------|--------------------------------------|----------|
| Product | Price | Quantity | Total |
| 6-LED Flashlight | \$11.55 | 15 | \$173.25 |
| | | Subtotal | \$157.50 |
| | | VAT | \$15.75 |
| | | \$6 Discount for orders above \$50 | -\$6.00 |
| | | Free Shipping For Orders Above \$150 | \$0.00 |
| | | Order total | \$167.25 |

Figure 8.72:



8.4 Shipping Methods

What kind of shipping method do you wish to go for? We have covered integration with two of the most popular shipping methods available for online stores - FedEX and UPS.

8.4.1 FedEx

In this section, we are going to provide you with the instructions required to set up FedEx shipping for your Drupal store. You will learn how to configure your Drupal store to access FedEx's testing and production environment. The first step is to create an account for your business by going to <https://fedex.com>:

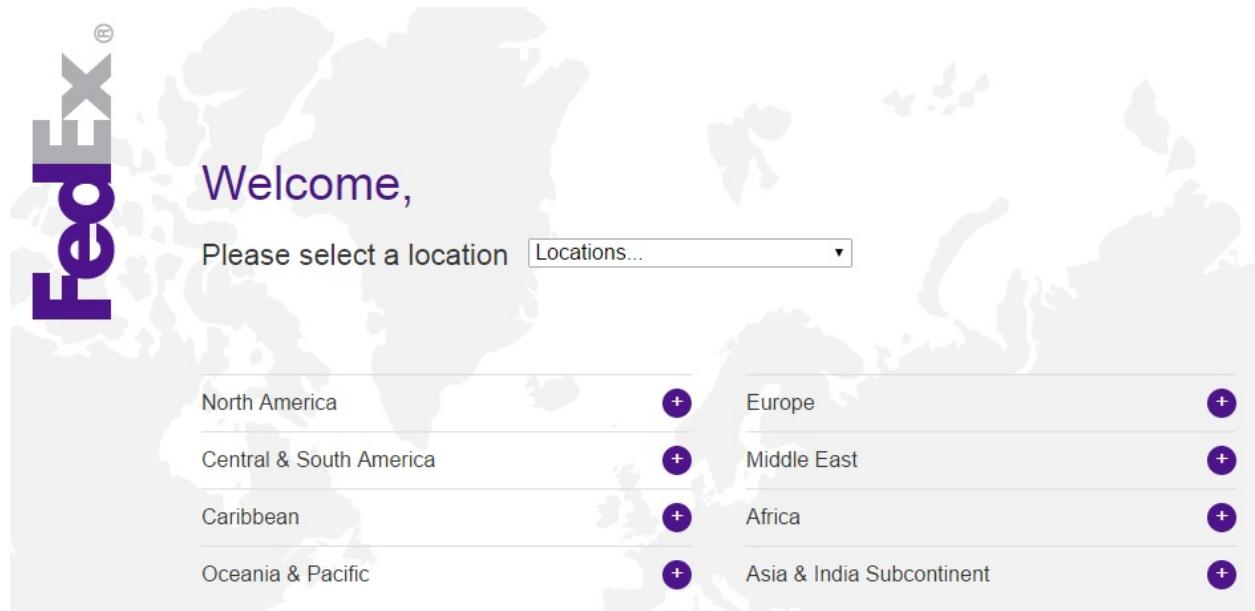


Figure 8.73:

Specify the primary location from where you intend to do business:



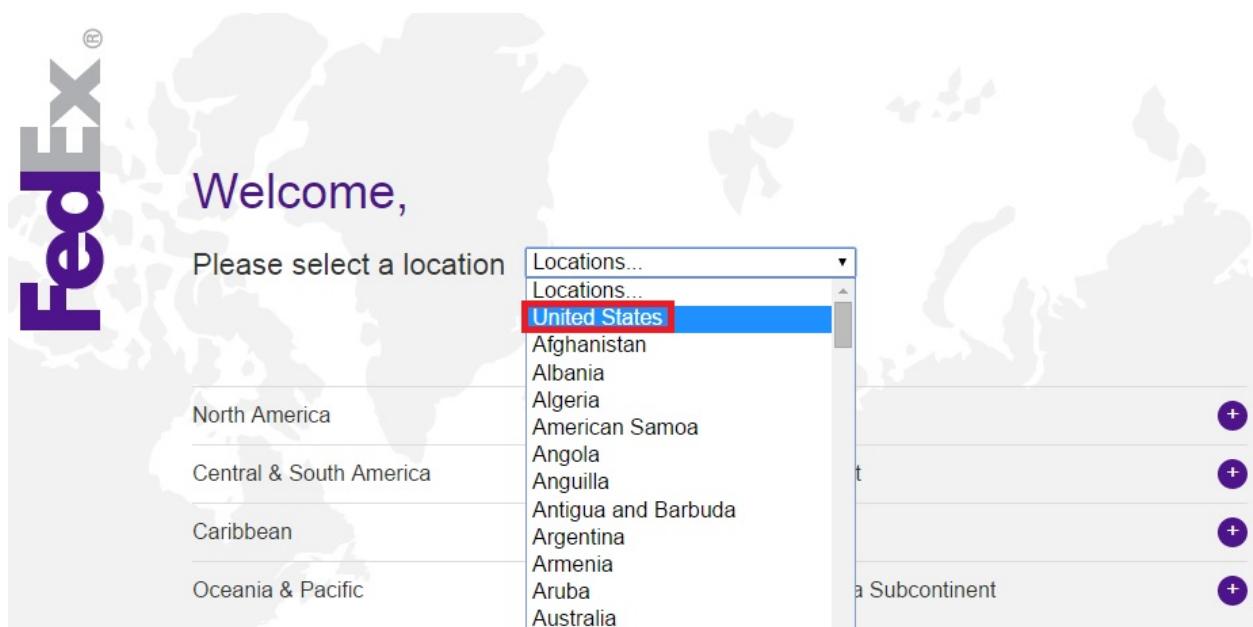


Figure 8.74:

Click “Register Now”:

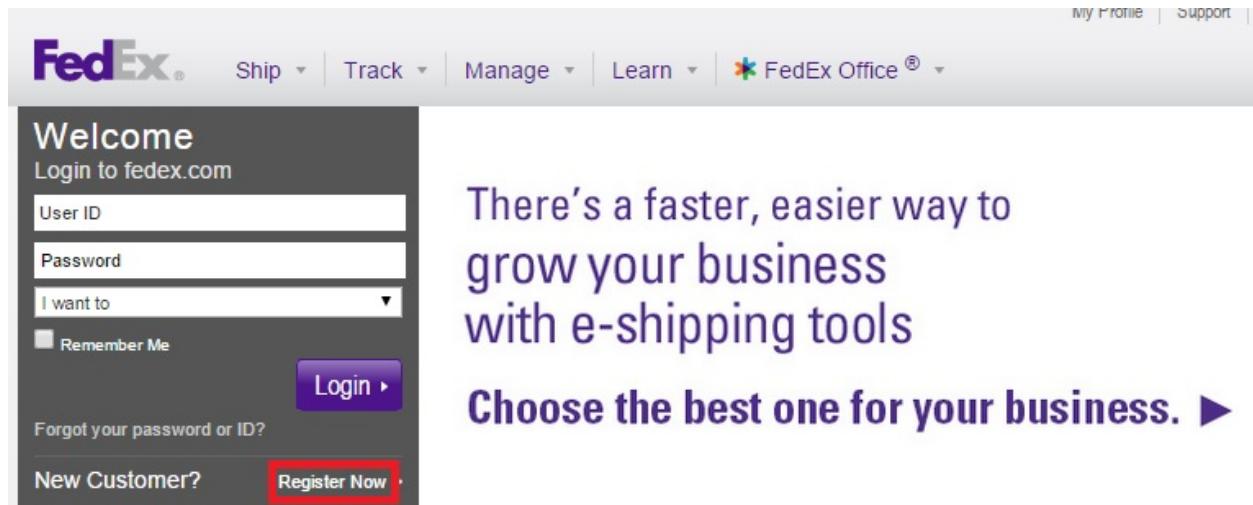


Figure 8.75:

You will be directed to the **My FedEx REWARDS** page. Click “CONTINUE” if you wish to opt for it. We clicked “No thank you. I do not wish to join My FedEx Rewards” to continue with this tutorial:



My FedEx REWARDS

Benefits of Opening an Account

When you open a FedEx account and join My FedEx Rewards, you will receive discounts, get ongoing offers and can choose from a catalog of rewards items. Click Continue to be on your way to great benefits.

My FedEx Rewards

| | |
|--|---|
| Discounts | 16% off FedEx Express 8% off FedEx Ground 10% off FedEx Office 60% off FedEx Freight |
| Exclusive Offers Receive offers for shipping and printing and earn great rewards. | ✓ |
| Redeem for Rewards Reward yourself or your business with gift cards or brand-name merchandise. | ✓ |

My FedEx Rewards is free.

CONTINUE

No thank you, I do not wish to join My FedEx Rewards.

Figure 8.76:

Fill in your registration details. Provide your name, address and the password you would like to use along with this shipping account. Make sure you opt to create a FedEx account. Click “Continue”:



fedex.com Registration

① Enter registration information ② Enter account information ③ Registration confirmation

* Denotes required field

Enter Your Registration Information [② Help](#)

| | |
|---|---|
| Contact Information <p>Enter the shipping address you want associated with your login.</p> <p>* First name <input type="text" value="Kevin"/> Initial <input type="text"/></p> <p>* Last name <input type="text" value="Smith"/></p> <p>* E-mail <input type="text" value="kevin.smith@redcrackle.com"/></p> <p>* Re-enter e-mail <input type="text" value="kevin.smith@redcrackle.com"/></p> <p>* Address 1 <input type="text" value="Parks Avenue"/></p> <p>Address 2 <input type="text"/></p> <p>* City <input type="text" value="Mountain View"/></p> <p>* State/province <input type="text" value="California(CA)"/></p> <p>* ZIP/postal <input type="text" value="94039"/></p> <p>* Country <input type="text" value="U.S.A."/></p> <p>* Phone no. <input type="text" value="512....."/></p> | Login Information <p>* Create a user ID <input type="text" value="kevin....."/></p> <p>Use at least 6 characters.</p> <p>* Create a password <input type="password"/> <input type="password"/></p> <p>Password must use at least 8 characters and contain one upper case letter, one lower case letter and one numeric character.</p> <p>* Re-enter password <input type="password"/></p> <p>* Secret question <input type="text" value="What is your place of birth?"/></p> <p>* Secret answer <input type="text"/></p> |
| Terms and Conditions <p><input checked="" type="checkbox"/> I have read, understood and agree to be bound by the fedex.com Terms of Use. I also understand how FedEx intends to use my information. Privacy Policy</p> <p><input checked="" type="checkbox"/> I would like to receive information about FedEx via e-mail, including special offers and promotions. (You can withdraw your consent at any time.)</p> | |
| Confirm Your Selected Account Option <p><input checked="" type="radio"/> Open a FedEx account Get access to the full array of shipping, billing and tracking services on fedex.com.</p> <p><input type="radio"/> Use my account online Set up your existing FedEx account number for online access.</p> <p><input type="radio"/> Create a user ID only Ship right away using your credit card, no account needed.</p> <p>More information ② More information ② More information ②</p> | |
| Cancel Continue | |

Figure 8.77:

In the next screen, you will have to provide the credit card information you want associated with this account. At the bottom of the screen, you will come across some routine shipping-related questions that have dropdown answers:



| Account Info | | Help |
|--|--|----------------------|
| <p>Account Type</p> <p><input type="checkbox"/> This is a business account</p> <p>Shipping location</p> <p>Verify the shipping location address for your FedEx account.</p> <p>Kevin [REDACTED] Parks Avenue Mountain View CA 94039 Ph: 512 [REDACTED] Edit</p> | | |
| <p>Credit Card Information</p> <p>Enter the credit card information for the card you want to associate with this FedEx account. A credit card is required for billing purposes.</p> <p>* Credit card type <input type="text" value="Visa"/> </p> <p>* Credit card number <input type="text" value="XXXXXXXXXXXXXX"/></p> <p>* Credit card ID number <input type="text" value="234"/> </p> <p>* Expiration date <input type="text" value="03"/>  <input type="text" value="19"/> </p> <p>Credit card billing address</p> <p>! IMPORTANT</p> <p>Verify the Credit Card billing address that exactly matches the billing address for the credit card you provided.</p> <p>Kevin [REDACTED] Parks Avenue Mountain View CA 94039 Ph: 512 [REDACTED] Edit</p> | | |
| <p>Credit Card Authorization</p> <p>! IMPORTANT</p> <p>You acknowledge and agree that it may be necessary from time to time for FEDEX to confirm the validity of the credit card information you provided to open your FedEx account. When this occurs, FedEx may request a temporary authorization hold for a nominal amount on your card. This authorization hold does not result in actual charges to your card. These authorizations will automatically expire based on guidelines established by your card issuer.</p> | | |
| <p>To better serve you, please tell us about your shipping needs.</p> <p>* How soon do you plan to make your first shipment using this account? <input type="text" value="More than a week"/> </p> <p>* Have you shipped with FedEx before? <input type="text" value="Yes"/> </p> <p>* Will others ship using this account? <input type="text" value="No"/> </p> | | |

Figure 8.78:

Save your profile. After you are done with the registration, go to fedex.com/developer and click “**FedEx Office Web Services**”. This is where you can access the credentials required to test and use FedEx’s web services on your site.



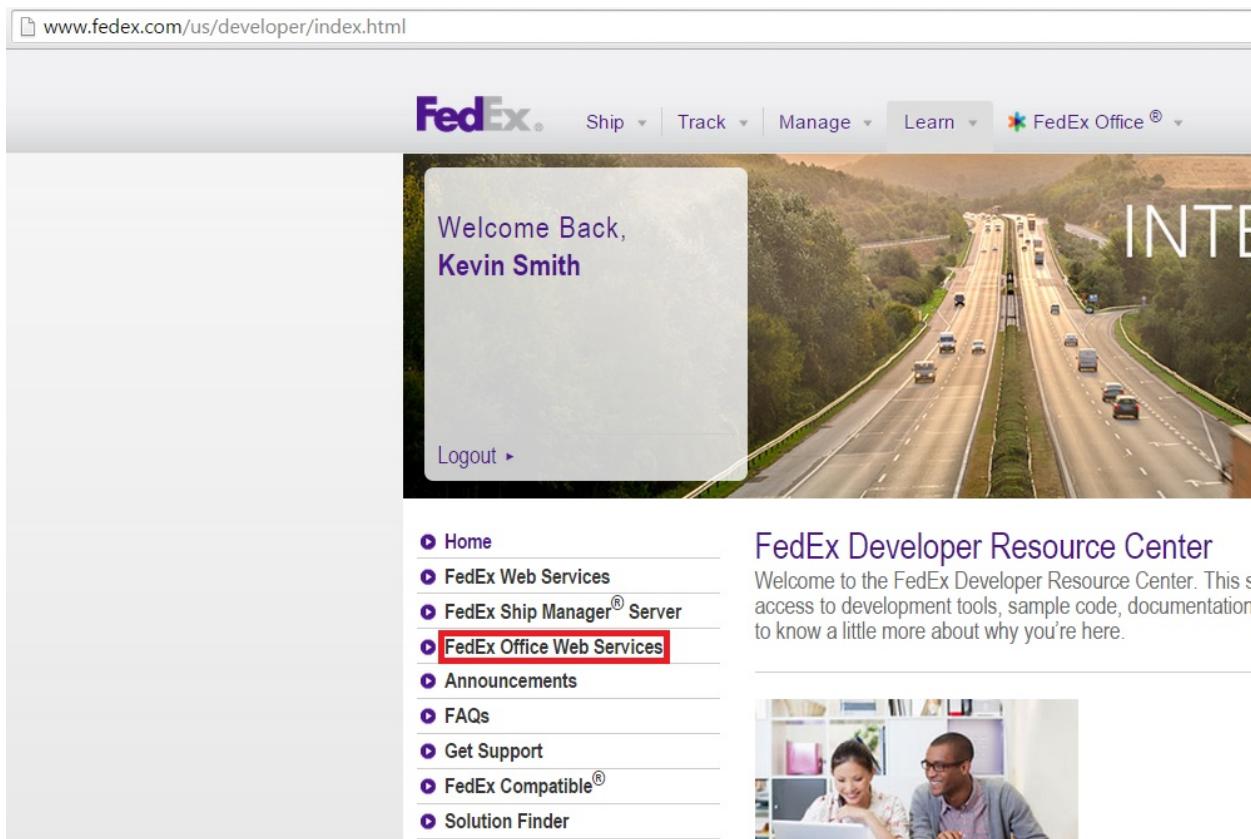


Figure 8.79:

FedEx provides you with 2 environments to experience its shipping functionality: testing and production.

Click “Move to development” under **Develop and Test** if you want to work with the testing environment.

OR

Click “Move to production” under **Move to production** if you want to work with the production environment.



Your Application Is for Internal Company Use Only:

Click the steps below to get started.



Figure 8.80:

You will have to perform the following steps:

1. Based on your choice, you will have to click either “**Obtain Production Key**” or “**Obtain Developer Test Key**” in the resulting page.
2. A License Agreement is then displayed. Tick the boxes and click “**I Accept**”.
3. The final page will feature the following values:
 - **Developer Test Key**
 - **Test Account Number**
 - **Test Meter Number**

Save these details. You will also be sent an email with these values.

Let's now configure the Drupal store to ensure that integration with FedEx is done in the right manner. Download and unzip the following modules in sites/all/modules folder:

- **Physical Fields:** This module is essential to help Drupal Commerce feature weight-related fields such as kg., pounds, etc.
- **Commerce Physical Product:** This module allows you to create custom product types that can contain weight-related fields for your products.
- **Commerce FedEx:** This module allows you to extend FedEx's functionality.

Let's get started. Click “**Modules**”:



Figure 8.81:



Search for “Physical Fields” and enable it. Click “Save configuration”:

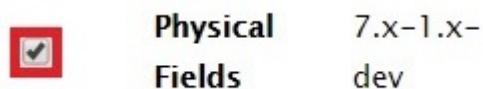


Figure 8.82:

Search for “Physical Product” and enable it. Click “Save configuration”:

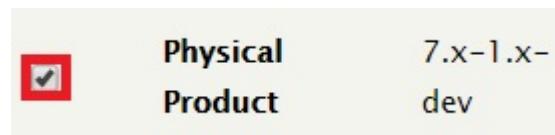


Figure 8.83:

Search for “FedEx” and enable it. Click “Save configuration”:



Figure 8.84:

Let's configure FedEx settings. Click “Store”:



Figure 8.85:

Click “Configuration”:



Figure 8.86:



Click “Shipping”:



Figure 8.87:

You are now on the “**SHIPPING SERVICES**” page for FedEx. Click “**SHIPPING METHODS**” on the top-right corner:

Click “Edit” in the new page:

| TITLE | OPERATIONS |
|--|--|
| FedEx (Machine name: fedex) Quote rates from FedEx | edit configure rule view services |
| Flat rate (Machine name: flat_rate) Lets you create flat rate services, specifying their base rates and using Rules to apply additional rate calculation logic. | configure rule add a flat rate service view services |

Figure 8.88:

The new page has a lot of fields that need to be filled.

The first section is “**FEDEX WEB AUTHENTICATION**”. Select “**Testing**” if you want to work with FedEx’s testing environment first. Fill in the following details received in your email:

- FedEx Key
- FedEx Password
- FedEx Account Number
- FedEx Meter Number



FedEx •

▼ FEDEX WEB AUTHENTICATION

FedEx Request Mode

Testing

Production

If switching to production mode, make sure that you have acquired productio

► PRODUCTION SETTINGS

▼ TEST SETTINGS

FedEx Key *

FedEx Password *

FedEx Account Number *

FedEx Meter Number *

Figure 8.89:



Select “**Production**” if you want to use FedEx’s production environment. Note that testing credentials cannot be used to access the production environment:

▼ FEDEX WEB AUTHENTICATION

FedEx Request Mode

Testing

Production

If switching to production mode, make sure that you have acquired production credentials.

▼ PRODUCTION SETTINGS

FedEx Key *

FedEx Password *

FedEx Account Number *

FedEx Meter Number *

Figure 8.90:

Under “**SHIP FROM ADDRESS**”, provide your primary shipping address:



▼ SHIP FROM ADDRESS

Name

Company Name

Address *

Address (Additional)

City *

State or Province

If shipping from USA or Canada, enter the 2 character abbreviation for the shipping State or Province.

Postal Code

Enter your postal code if available.

Country *

Figure 8.91:

You should then select the kind of FedEx shipping services you want enabled for your site:



▼ ENABLED FEDEX SHIPPING SERVICES

- FedEx Ground
- FedEx 2 Day
- FedEx 2 Day AM
- FedEx Express Saver
- FedEx First Overnight
- FedEx Ground Home Delivery
- FedEx International Economy
- FedEx International First
- FedEx International Priority
- FedEx Priority Overnight
- FedEx Smart Post
- FedEx Standard Overnight

Figure 8.92:

You should then provide details about kind of default packaging (whether custom or FedEx) and package sizes:



▼ FEDEX PACKAGING

Default package type

Customer Supplied Packaging ▾

FedEx package types are only for Express usage. If you want to use (

▼ DEFAULT PACKAGE SIZE (INCHES)

FedEx requires a package size when determining estimates.

Length *

Width *

Height *

Figure 8.93:

And finally, choose your pricing preference, shipping destination preference (ideally residential) and dropoff/pickup preferences. Click “**Save configuration**”:



▼ OTHER FEDEX OPTIONS

Pricing options

Standard pricing (LIST) ▾

Select the pricing option to use when requesting a rate quote. Note that disco

Ship to destination type

Residential ▾

Leave this set as residential unless you only ship to commercial addresses.

Default dropoff/pickup location for your FedEx shipments

Regularly scheduled Pickup from your location ▾

Include insurance value of shippable line items in FedEx rate requests

Display FedEx Logo next to FedEx services.

Log the following messages for debugging

API request messages

API response messages

Save configuration

Figure 8.94:

You have now performed a basic FedEx configuration for your Drupal site. You can customize your site's FedEx capabilities further by adding conditions and rules of your choice.



8.4.2 UPS

In this section, we will go through the basic steps required to integrate UPS functionality on the site.

The first step would be to create an account with www.ups.com/upsdeveloperkit. You need access to UPS' API functionality. Your objective should be to get an Access Key that will have to be used as an input at your store's back-end to configure UPS' settings. Let's register with UPS:

The screenshot shows the UPS Developer Kit homepage. At the top, there is a navigation bar with links for 'New User', 'Log-In', 'Contact UPS', 'The UPS Store', and a search bar. Below the navigation bar, there is a main content area titled 'UPS Developer Kit'. On the left side of this area, there is a sidebar with links for 'Shipment', 'Report', 'Support', and 'Info Center'. The main content area has two main sections: 'Announcements and API Updates' and 'How to Get Started'. The 'How to Get Started' section contains five steps: 'Step 1: Register with My UPS.', 'Step 2: Log-in.', 'Step 3: Select an API.', 'Step 4: Download the API documentation.', and 'Step 5: Request an access key.' The link 'Register with My UPS.' is highlighted with a red box. To the right of this section is another box titled 'Access and Administration' containing links for 'Manage Access Keys', 'Administration', and 'UPS Developer Resource Center'. A small photo of a woman is also visible on the left side of the main content area.

Figure 8.95:

Fill in your account details. Specify a User ID and password of your choice. Tick the box at the bottom of the page to accept the Technology Agreement. Click “Next”:



Register

Progress:

1 Login Settings 2 Profile Address 3 Registration Complete

What's Next?
My Profile

Create Login Settings

Please use the form below to create a User ID and password. Required fields are indicated with ♦.

| |
|---|
| User ID and Password |
| Full Name: Kevin ██████████ ♦ E-mail: kevin.██████████ ♦ Re-enter E-mail: kevin.██████████ ♦ User ID: kevin██████████ ♦ Password: •••••••••• ♦ Re-enter Password: •••••••••• ♦ |

Technology Agreement ♦

UPS TECHNOLOGY AGREEMENT
Version UTA05072014

PLEASE CAREFULLY READ THE FOLLOWING TERMS AND CONDITIONS OF THIS UPS TECHNOLOGY AGREEMENT. BY INDICATING BELOW THAT YOU AGREE TO BE BOUND BY THE TERMS AND CONDITIONS OF THIS AGREEMENT, YOU HAVE ENTERED INTO A LEGALLY BINDING AGREEMENT WITH UPS MARKET DRIVER, INC. ("UPS").

This Agreement comprises (1) these [General Terms and Conditions](#) (including its attached [Exhibit A](#) (Definitions - General Terms and Conditions) and [Exhibit B](#) (Country Specific Amendment to the General Terms and Conditions); (2) the [End User Rights](#) (including its attached [Exhibit A](#) (Definitions - End User Rights), [Exhibit B](#) (UPS Technology), and [Exhibit C](#) (Permitted Territory)) available at [www.ups.com](#).

By selecting this box and the Next button, I agree to the UPS Technology Agreement above. View and download the [UPS Technology Agreement](#).

Cancel **Next»**

Figure 8.96:

In the new page, specify whether you want to use the account for personal or business purposes. Provide an address to associate with your account. Click “**Submit**”:



The screenshot shows the UPS Register process at step 2: Profile Address. The top navigation bar includes links for My UPS, Shipping, Tracking, Freight, Locations, Support, and UPS Solutions. A progress bar indicates three steps: 1. Login Settings, 2. Profile Address (the current step), and 3. Registration Complete. To the right, a 'What's Next?' box offers a 'My Profile' link. The main form area is titled 'Create Profile' and contains instructions to use the form to create My UPS profile data, noting required fields with a yellow asterisk. It shows a User ID (kevininthesat) and a Contact Information section with fields for Name (Kevin Smith), E-mail (kevin.smith@redcrackle.com), and various address fields (Address Line 1: Burns Avenue, Address Line 2: [redacted], Address Line 3: [redacted], City: MOUNTAIN VIEW, State: California, ZIP Code: 94039). Buttons for 'Cancel' and 'Submit' are at the bottom.

Figure 8.97:

Your account has now been created:



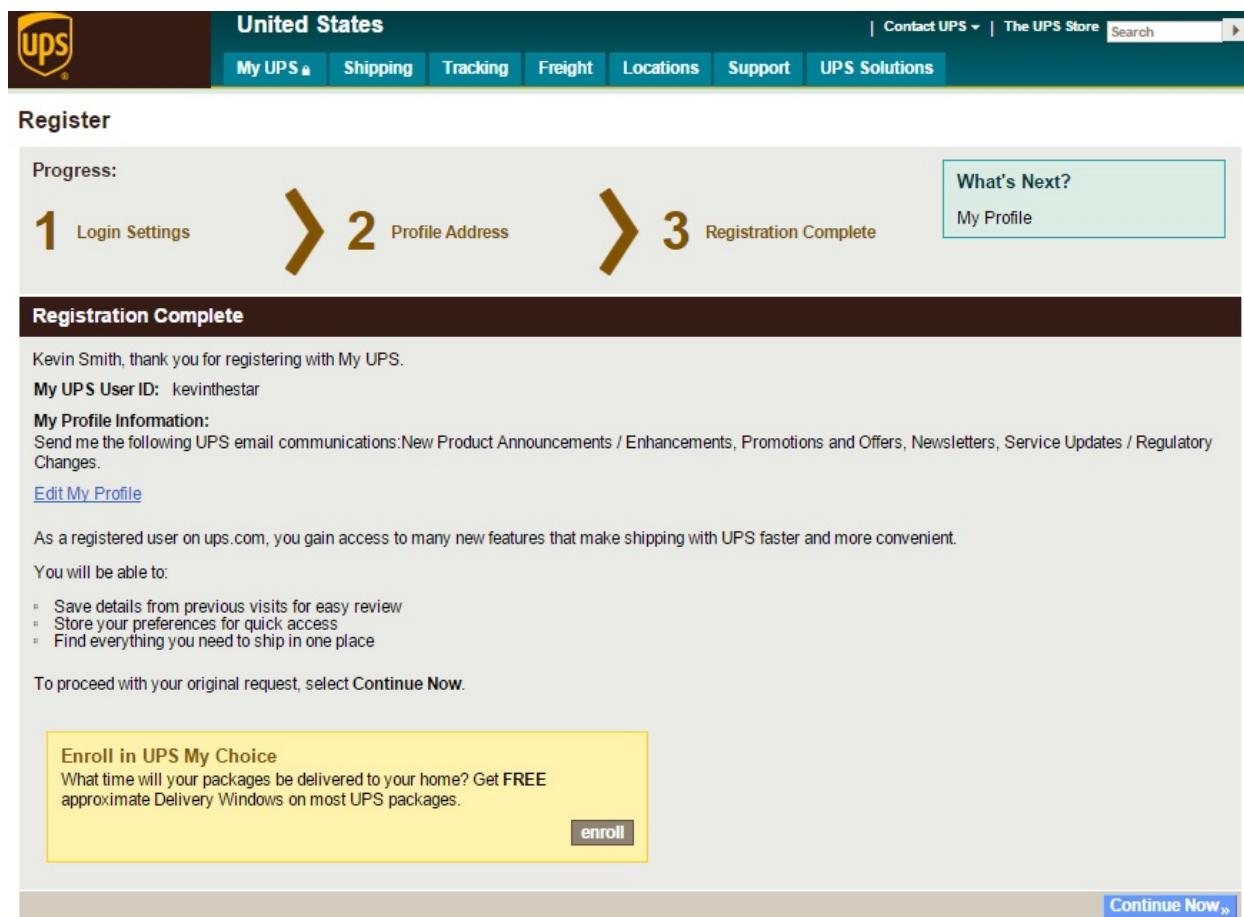


Figure 8.98:

You can now request for an Access Key by going to the following path:

“Support” -> “Technology Support” -> “UPS Developer Kit”

Under “How to Get Started”, click “Request an access key”:



The screenshot shows the UPS Developer Kit page. On the left sidebar under 'Support', the 'UPS Developer Kit' link is highlighted with a red box. In the main content area, under 'How to Get Started', the fifth step, 'Step 5: Request an access key', is also highlighted with a red box. The page includes sections for Announcements and API Updates, How to Get Started, Access and Administration, and various developer APIs like Shipping/Rating, Visibility, and International Trade.

Figure 8.99:

An email will be sent to you with the Access Key and other details associated with your account. This data will come in handy while configuring your store's back-end.

Let's now set up the modules required for UPS integration. Download and unzip the following modules to your sites/all/modules folder:

- **Commerce UPS**
- **AES encryption**

Start by clicking “**Modules**” on the top-level menu:



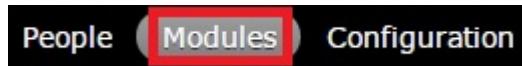


Figure 8.100:

Search for “**UPS**” and enable it. Click “**Save configuration**” at the bottom of the page:



Figure 8.101:

Search for “**AES**” and enable it. Click “**Save configuration**” at the bottom of the page:



Figure 8.102:

Let's now configure the UPS settings. Click “**Store**”:



Figure 8.103:

Click “**Configuration**”:



Figure 8.104:

A new “**UPS**” tab appears on the top-right. Click “**Shipping Methods**”:





Figure 8.105:

In the new page, click “Edit” against “UPS”:

| TITLE | OPERATIONS |
|--|--|
| FedEx (Machine name: fedex) Quote rates from FedEx | edit configure rule view services |
| Flat rate (Machine name: flat_rate) Lets you create flat rate services, specifying their base rates and using Rules to apply additional rate calculation logic. | configure rule add a flat rate service view services |
| UPS (Machine name: ups) Quote rates from UPS | edit configure rule view services |

Figure 8.106:

You will need to fill in a lot of details. Here are the fields you will come across:

- Under “**UPS API CREDENTIALS**”, provide your UPS account along with the Access Key associated with it:



▼ UPS API CREDENTIALS

In order to obtain shipping rate estimates, you must have an account with UPS.

Account ID ***User ID *****Password ***

Please leave blank if you do not want to update your password at this time.

Access Key *

Figure 8.107:

- Under “SHIP FROM ADDRESS”, provide the address you want associated with the UPS account:



▼ SHIP FROM ADDRESS**Company Name****Address****Address (Additional)****City****State** Please Select ▼**Postal Code****Country** Please Select ▼

Figure 8.108:

- Under “ENABLE UPS SHIPPING SERVICES”, tick against the UPS services you want customers to choose from:



▼ ENABLE UPS SHIPPING SERVICES

- UPS Ground
- UPS Next Day Air
- UPS Next Day Air Saver
- UPS Next Day Early A.M.
- UPS 2nd Day Air
- UPS 2nd Day Air A.M.
- UPS 3 Day Select
- UPS Standard
- UPS Worldwide Express
- UPS Worldwide Expedited
- UPS Worldwide Express Plus
- UPS Worldwide Saver

Figure 8.109:

- Under “**PACKAGE SIZE (INCHES)**”, provide details of estimated package sizes. The numerical values provided by you here allows UPS to calculate shipping costs for orders placed on your site.



PACKAGE SIZE (INCHES)

UPS requires a package size when determining estimates.

Length *

Width *

Height *

The package size is used to determine the number of packages required. The logic implemented is **accurate**. The logic implemented works as:

- Assume each order requires at least one package.
 - Use the combined volume of all products in an order to calculate the shipping cost.
- This is a simple calculation that can get close to actual shipping costs.

UPS has a **maximum package size**.

Figure 8.110:

Click “**Save configuration**” if you are satisfied with the values provided for the fields.

You have now configured the basic UPS shipping settings for your site.



Chapter 9

Inventory Management

In this section, we will go through the steps required to set up inventory management on our site. You will learn how to manage the quantity of products in the store. You will also get to configure the store so that the buyers will be advised to reduce the quantity of a certain product in his cart if the store is out of stock.

Visit [Commerce Stock module page](#) to install and unzip the Commerce Stock to your Modules folder.

In the back-end, search for and enable the following modules as shown in the screenshot below:

- Commerce Simple Stock
- Commerce Simple Stock Rules
- Commerce Stock API
- Commerce Stock UI



▼ COMMERCE (STOCK)

| ENABLED | NAME |
|-------------------------------------|----------------------------------|
| <input checked="" type="checkbox"/> | Commerce Simple Stock |
| <input checked="" type="checkbox"/> | Commerce Simple Stock Rules |
| <input checked="" type="checkbox"/> | Commerce Stock API |
| <input type="checkbox"/> | Commerce Stock Decimal formatter |
| <input checked="" type="checkbox"/> | Commerce stock UI |

Figure 9.1:

Click “Save configuration”:



Save configuration

Figure 9.2:

Click “**Store**”:

Structure **Store** Appearance

Figure 9.3:

Click “**Configuration**”:

▶ **Create Coupon**
Create a new coupon

▶ **Configuration**
Configure settings and business rules for your store.

Figure 9.4:

In the next page, click the newly created link “**Stock management**”:

▶ **Stock management**
Configure stock management.

▶ **Taxes**
Manage tax rates and types.

Figure 9.5:

On this page, you will notice 4 tabs in the top right:

Click “**SIMPLE STOCK MANAGEMENT**”:





Figure 9.6:

Under “ENABLE STOCK MANAGEMENT FOR THESE PRODUCT TYPES”, tick the box against “Product (product)”. Click “Submit”. This step will activate the stock functionality for the products:

ENABLE STOCK MANAGEMENT FOR THESE PRODUCT TYPES

Note that disabling stock management removes the Stock field from the

Product (product)

Role 1 – License (role_1_license)

ENABLE STOCK MANAGEMENT OVERRIDE FOR THESE PRODUCT TYPES

Note that disabling stock management override removes the Stock overr

Submit

Figure 9.7:

You will see the following message. This indicates that all products in your inventory are now set to zero. Buyers won’t be able to purchase them unless you assign the quantity available for each product in the back-end:

-  Stock field has been added to the *product* product type.
- All stock levels have been initialized to zero

Figure 9.8:

To demonstrate this, we will go to a product in our inventory. Notice the “Out of stock” button below that prevents me from adding the product to the cart:



Flashlights for all seasons!

[View](#) [Edit](#)

Choose from our range of flashlights to have an impact on your marketing campaign!

Choose a Flashlight:

3-LED Flashlight ▾

Out of stock

Description:

These flashlights are perfect for all your outdoor and indoor needs! • Multi-mode electronic switch • Advanced focus system • Up to 625 lumens

Price: \$5.40

Figure 9.9:

Let's assign a quantity in the back-end for this product, the 3-LED Flashlight. Click "Store" -> "Products":



Figure 9.10:

These are the 3 products:



| SKU | ▲ | TITLE |
|--------------|---|------------------|
| RC-Prod-0001 | | 3-LED Flashlight |
| RC-Prod-0002 | | 6-LED Flashlight |
| RC-Prod-0003 | | 9-LED Flashlight |

Figure 9.11:

Click “Edit” on the right for 3-LED Flashlight. You will get the following screen. Specify a value for the “Stock” field. We entered “20”, which means buyers can purchase a maximum of 20 flashlights from the store:

Status *

Active

Disabled

Disabled products can

Stock *

Figure 9.12:

Click “Save product” at the bottom of the page:

Save product

Figure 9.13:

Now let’s try purchasing eleven 3-LED Flashlights from the store. Click “Checkout” and complete the purchase by filling in your shipping details:



Shopping cart

| Product | Price | Quantity | Remove | Total |
|-----------------------------|--------|--------------------------|------------------------|--------|
| 3-LED Flashlight | \$5.40 | 11 | Remove | \$5.40 |
| Total: \$5.40 | | | | |
| Update cart | | Checkout | | |

Figure 9.14:

You have now purchased 11 3-LED Flashlights out of a possible 20. Let's see if this action reduced the inventory on the back-end.

Click “Store” -> “Product” and access the fields for 3-LED Flashlight. You will notice that the “Stock” field has been updated. We had earlier typed in 20 as the quantity. It now displays 9 as the quantity after deducting 11 items that were purchased:

Status *

Active

Disabled

Disabled products can't

Stock *

9

Figure 9.15:

Let's now make one more purchase. As you can see here, we are trying to purchase 11 more of these flashlights when there are only 9 available. Click “Update cart”:



Shopping cart

| Product | Price | Quantity | Remove | Total |
|-----------------------------|--------|---------------------------------|------------------------|--------|
| 3-LED Flashlight | \$5.40 | <input type="text" value="11"/> | Remove | \$5.40 |
| Total: \$5.40 | | | | |
| Update cart | | Checkout | | |

Figure 9.16:

As seen in the screenshot below, the store prevents us from purchasing anything above a quantity of 9.

The screenshot shows a shopping cart interface. On the left, there's a sidebar with a search bar and a message: "The maximum quantity for 3-LED Flashlight that can be ordered is 9." The main area shows a single item in the cart: "1 x 3-LED Flashlight \$5.40". Below the cart summary, there's a table with the same data as Figure 9.16, but the quantity input field is highlighted with a red border. The total is listed as "Total: \$5.40". At the bottom are "Update cart" and "Checkout" buttons.

| Product | Price | Quantity | Remove | Total |
|------------------|--------|---------------------------------|------------------------|--------|
| 3-LED Flashlight | \$5.40 | <input type="text" value="11"/> | Remove | \$5.40 |

Figure 9.17:

We have now gone through the basic configuration required to set up inventory management for your store.

