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MARTIN BROCHHAUS

ENTREPRENEUR, SOFTWARE ENGINEER, FREELANCE WEBDESIGNER,
HOUSE DJ, PHOTOGRAPHER NOOB, WORLD TRAVELER

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19TH MAY 2011 | 3 NOTES

DJANGO-SHOP ADVENTURES: SHIPPING AND PAYMENT

After we have implemented the **model and admin** for our shop's products in the last post on this series, we are going to deal with shipping and payment next.

Adding FlatRateShipping and PayOnDelivery

This is the first time where we have to leave the **getting started** document which is a pity, because I feel that instructions for a very simple shipping backend and a very simple payments processor should be in there as well.

The **plugins** document gives us some hints on how to proceed. While the instructions are quite clear, I don't seem to get the big picture. Browsing the code a bit reveals that an example implementation for a shipping backend comes with the shop: The **FlatRateShipping backend**.

Let's just press that fancy big red button and see what happens. So we will add the shipping backend to our settings.py:

```
1 SHOP_SHIPPING_FLAT_RATE = '-30'
2 SHOP_SHIPPING_BACKENDS = [
3     'shop.shipping.backends.flat_rate.FlatRateShipping',
4 ]
5 SHOP_PAYMENT_BACKENDS = [
6     'shop.payment.backends.pay_on_delivery.PayOnDeliveryBackend'
7 ]
```

gistfile1.py hosted with ❤ by [GitHub](#)

[view raw](#)

I also added the shipping fee. Notes on the available settings can be found in the **settings**

document. And when we are at it I also added the setting for the payment backend.

Enjoying our newly available views

Now we can proceed to checkout. We will be presented a page where we can chose our shipping backend:

Shipping

Please select a shipping option:

[Flat rate](#)

After chosing “Flat rate shipping” we see a page that tells us how much the shipping will be. This is mainly a demonstration to show that the shipping backend can have it’s own views and URLs and therefore the backend maintainer is able to create a little application within the shop application.

You will be charged -30 for shipping

[Proceed](#)

When clicking at “Proceed” we get redirected to the payment selection page:

Payment

Please select a payment option:

[Pay On Delivery](#)

After choosing “Pay On Delivery” the order is complete and we see a thank-you-page. Sweet!

Thank you for your order!

Your order has been placed

[Back to the main page](#)

So far setting up the shop was simple and straightforward. There still is no magic involved and once there are enough shipping backends and payment processors available, it will be relatively easy to quickly setup a new shop and start templating right away which should be awesome for agile projects.

Let's have a look what we got in the admin so far:

Django administration Welcome, bitmazzk. Documentation / Change password / Log out

Home > Shop > Orders

Select Order to change

Filter

By Status
 All
 Processing
 Selecting payment
 Confirmed
 Completed
 Shipped
 Cancelled

By Payment method
 All
 (None)

ID	User	Shipping name	Status	Order total	Payment method	Created
2	(None)	(None)	Completed	438.00	(None)	May 19, 2011, 4 a.m.
1	bitmazzk	(None)	Completed	204.00	(None)	May 19, 2011, 3:16 a.m.

2 Orders

The list view for orders does show the orders in our system which is great but some things look wrong here:

- Why is “Shipping name” = “(None)”?. Shouldn’t it be “Flat rate”?
- Why is “Payment method” = “(None)”?. Shouldn’t it be “Pay on delivery”?

Let’s have a look at a single order. First we get general information about the order. Again I wonder why “Payment method” is empty.

Django administration Welcome, bitmazzk. Documentation / Change password / Log out

Home > Shop > Orders > Order ID: 2

Change Order

History View on site

User: [dropdown] +

Status: Completed [dropdown]

Order total: 438

Order subtotal: 468

Payment method: [text input]

Created: May 19, 2011, 4 a.m.

Updated: May 19, 2011, 4:01 a.m.

After that we have a fieldset for Shipping information. How can we gather these information from the user? I guess we would need to extend the views of our shipping backend and add some nice forms. This will probably be the next important step for setting up our shop and will be covered in the next post.

Shipping

Shipping name: [text input]

Shipping address: [text input]

Shipping address 2: [text input]

Shipping City: [text input]

Shipping zip code: [text input]

Shipping state: [text input]

Shipping country: [text input]

Shipping address and billing address often differ, therefore we have another address fieldset here. Again, how to fill this should be covered in my next post.

Billing	
Billing name:	<input type="text"/>
Billing address:	<input type="text"/>
Billing address 2:	<input type="text"/>
Billing city:	<input type="text"/>
Billing zip code:	<input type="text"/>
Billing state:	<input type="text"/>
Billing country:	<input type="text"/>

Finally we get an overview of the items ordered. Interesting is the last part about “Order payments”. This seems to tell me that a payment of 438 € has been made through “Pay on delivery”. However, the user has just ordered the item and certainly has not paid it already. This is due to the simplicity of the example backends that ship with the shop. We will have to invent something smarter here, soon.

Order items						
Product reference	Product name	Unit price	Quantity	Line subtotal	Line total	Delete?
OrderItem object	1	product name 2	234	2	468	468
Add another Order Item						
Order extra info						
Extra info						Delete?
Add another Order Extra Info						
Extra order price fields						
Label					Amount	Delete?
ExtraOrderPriceField object						
Flat shipping					-30	
Add another Extra Order Price Field						
Order payments						
Amount	Transaction ID		Payment method		Delete?	
OrderPayment object	438		None		Pay On Delivery	
Add another Order Payment						
Delete						
Save and add another						
Save and continue editing						
Save						

So far, so good. I think in the next post I will create our first own backends and make sure that we can gather the customer’s address information.



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« Previous Next »