django-payments

Release 0.14.0.post27+g9d7513e

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Installation

1. Install django-payments

```
$ pip install django-payments
```

Note that some providers have additional dependencies. For example, if using stripe, you should run:

```
$ pip install "django-payments[stripe]"
```

- $1. \ Add \ {\tt payments} \ to \ your \ {\tt INSTALLED_APPS}.$
- 2. Add the callback processor to your URL router:

```
# urls.py
from django.conf.urls import include, path

urlpatterns = [
   path('payments/', include('payments.urls')),
]
```

3. Define a Payment model by subclassing payments.models.BasePayment:

```
# mypaymentapp/models.py
from decimal import Decimal

from payments import PurchasedItem
from payments.models import BasePayment

class Payment (BasePayment):
    def get_failure_url(self):
        return 'http://example.com/failure/'

    def get_success_url(self):
        return 'http://example.com/success/'
```

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The get_purchased_items() method should return an iterable yielding instances of payments. PurchasedItem.

4. Write a view that will handle the payment. You can obtain a form instance by passing POST data to payment. get_form():

Note: Please note that Payment.get_form() may raise a RedirectNeeded exception.

5. Prepare a template that displays the form using its *action* and *method*:

6. Configure your settings.py:

```
# settings.py
INSTALLED_APPS = [
    # ...
    'payments']

PAYMENT_HOST = 'localhost:8000'
PAYMENT_USES_SSL = False
PAYMENT_USES_SSL = False
PAYMENT_MODEL = 'mypaymentapp.Payment'
PAYMENT_VARIANTS = {
    'default': ('payments.dummy.DummyProvider', {})}
```

Variants are named pairs of payment providers and their configuration.

Note: Variant names are used in URLs so it's best to stick to ASCII.

Note: PAYMENT_HOST can also be a callable object.

Making a payment

1. Create a Payment instance:

```
from decimal import Decimal
from payments import get_payment_model
Payment = get_payment_model()
payment = Payment.objects.create(
   variant='default', # this is the variant from PAYMENT_VARIANTS
   description='Book purchase',
   total=Decimal(120),
   tax=Decimal(20),
   currency='USD',
   delivery=Decimal(10),
   billing_first_name='Sherlock',
   billing_last_name='Holmes',
   billing_address_1='221B Baker Street',
   billing_address_2='',
   billing_city='London',
   billing_postcode='NW1 6XE',
   billing_country_code='GB',
   billing_country_area='Greater London',
    customer_ip_address='127.0.0.1')
```

2. Redirect the user to your payment handling view.

2.1 Payment amounts

The Payment instance provides two fields that let you check the total charged amount and the amount actually captured:

```
>>> payment.total
Decimal('181.38')
>>> payment.captured_amount
Decimal('0')
```

2.2 Payment statuses

A payment may have one of several statuses, that indicates its current state. The status is stored in status field of your Payment instance. Possible statuses are:

waiting Payment is waiting for confirmation. This is the first status, which is assigned to the payment after creating it.

input Customer requested the payment form and is providing the payment data.

preauth Customer has authorized the payment and now it can be captured. Please remember, that this status is only possible when the capture flag is set to False (see *Authorization and capture* for details).

confirmed Payment has been finalized or the the funds were captured (when using capture=False).

rejected The payment was rejected by the payment gateway. Inspect the contents of the payment.message and payment.extra_data fields to see the gateway response.

refunded Payment has been successfully refunded to the customer (see *Refunding a payment* for details).

error An error occurred during the communication with the payment gateway. Inspect the contents of the payment.message and payment.extra_data fields to see the gateway response.

2.3 Fraud statuses

Some gateways provide services used for fraud detection. You can check the fraud status of your payment by accessing payment.fraud_status and payment.fraud_message fields. The possible fraud statuses are:

unknown The fraud status is unknown. This is the default status for gateways, that do not involve fraud detection.

accept Fraud was not detected.

reject Fraud service detected some problems with the payment. Inspect the details by accessing the payment. fraud_message field.

review The payment was marked for review.

Refunding a payment

If you need to refund a payment, you can do this by calling the refund() method on your Payment instance:

```
>>> from payments import get_payment_model
>>> Payment = get_payment_model()
>>> payment = Payment.objects.get()
>>> payment.refund()
```

By default, the total amount would be refunded. You can perform a partial refund, by providing the amount parameter:

```
>>> from decimal import Decimal
>>> payment.refund(amount=Decimal(10.0))
```

Note: Only payments with the confirmed status can be refunded.

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Authorization and capture

Some gateways offer a two-step payment method known as Authorization & Capture, which allows you to collect the payment manually after the buyer has authorized it. To enable this payment type, you have to set the capture parameter to False in the configuration of payment backend:

```
# settings.py
PAYMENT_VARIANTS = {
   'default': ('payments.dummy.DummyProvider', {'capture': False})}
```

4.1 Capturing the payment

To capture the payment from the buyer, call the capture () method on the Payment instance:

```
>>> from payments import get_payment_model
>>> Payment = get_payment_model()
>>> payment = Payment.objects.get()
>>> payment.capture()
```

By default, the total amount will be captured. You can capture a lower amount, by providing the amount parameter:

```
>>> from decimal import Decimal
>>> payment.capture(amount=Decimal(10.0))
```

Note: Only payments with the preauth status can be captured.

4.2 Releasing the payment

To release the payment to the buyer, call the release () method on your Payment instance:

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```
>>> from payments import get_payment_model
>>> Payment = get_payment_model()
>>> payment = Payment.objects.get()
>>> payment.release()
```

Note: Only payments with the preauth status can be released.

Provided backends

These are the payment provider implementations included in this package. Note that you should not usually instantiate these yourself, but use provider_factory() instead.

5.1 Dummy

```
class payments.dummy.DummyProvider(capture=True)
    Dummy payment provider.
```

This is a dummy backend suitable for testing your store without contacting any payment gateways. Instead of using an external service it will simply show you a form that allows you to confirm or reject the payment.

Example:

```
PAYMENT_VARIANTS = {
   'dummy': ('payments.dummyProvider', {})}
```

5.2 Authorize.Net

Payment provider for Authorize.Net.

This backend implements payments using the Advanced Integration Method (AIM) from Authorize.Net.

This backend does not support fraud detection.

Parameters

- login_id Your API Login ID assigned by Authorize.net
- transaction_key Your unique Transaction Key assigned by Authorize.net

• endpoint - The API endpoint to use. For the production environment, use 'https://secure.authorize.net/gateway/transact.dll'instead.

Example:

```
# use staging environment
PAYMENT_VARIANTS = {
    'authorizenet': ('payments.authorizenet.AuthorizeNetProvider', {
        'login_id': '1234login',
        'transaction_key': '1234567890abcdef',
        'endpoint': 'https://test.authorize.net/gateway/transact.dll'})}
```

5.3 Braintree

Example:

```
# use sandbox
PAYMENT_VARIANTS = {
    'braintree': ('payments.braintree.BraintreeProvider', {
        'merchant_id': '112233445566',
        'public_key': '1234567890abcdef',
        'private_key': 'abcdef123456',
        'sandbox': True})}
```

5.4 Coinbase

Payment provider for coinbase.

This backend implements payments using Coinbase.

This backend does not support fraud detection.

Parameters

- key Api key generated by Coinbase
- secret Api secret generated by Coinbase
- endpoint Coinbase endpoint domain to use. For the production environment, use 'coinbase.com' instead

```
__init__ (key, secret, endpoint='sandbox.coinbase.com', **kwargs)

Create a new provider instance.
```

This method should not be called directly; use provider_factory() instead.

Example:

```
# use sandbox
PAYMENT_VARIANTS = {
    'coinbase': ('payments.coinbaseProvider', {
        'key': '123abcd',
        'secret': 'abcd1234',
        'endpoint': 'sandbox.coinbase.com'})}
```

5.5 Cybersource

Example:

```
# use sandbox
PAYMENT_VARIANTS = {
   'cybersource': ('payments.cybersource.CyberSourceProvider', {
        'merchant_id': 'example',
        'password': '1234567890abcdef',
        'capture': False,
        'sandbox': True})}
```

5.5.1 Merchant-Defined Data

Cybersource allows you to pass Merchant-Defined Data, which is additional information about the payment or the order, such as an order number, additional customer information, or a special comment or request from the customer. This can be accomplished by passing your data to the Payment instance:

```
>>> payment.attrs.merchant_defined_data = {'01': 'foo', '02': 'bar'}
```

5.6 Dotpay

Payment provider for dotpay.pl

This backend implements payments using a popular Polish gateway, Dotpay.pl.

Due to API limitations there is no support for transferring purchased items.

This backend does not support fraud detection.

Parameters

- seller id Seller ID assigned by Dotpay
- pin PIN assigned by Dotpay
- channel Default payment channel (consult reference guide). Ignored if channel_groups is set
- channel_groups Payment channels to choose from (consult reference guide). Overrides channel.
- lang UI language
- lock Whether to disable channels other than the default selected above
- **endpoint** The API endpoint to use. For the production environment, use 'https://ssl.dotpay.pl/' instead
- ignore_last_payment_channel Display default channel or channel groups instead of last used channel.
- **type** Determines what should be displayed after payment is completed (consult reference guide).

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Example:

```
# use defaults for channel and lang but lock available channels
PAYMENT_VARIANTS = {
    'dotpay': ('payments.dotpay.DotpayProvider', {
        'seller_id': '123',
        'pin': '0000',
        'lock': True,
        'endpoint': 'https://ssl.dotpay.pl/test_payment/'})}
```

5.7 PayPal

Payment provider for Paypal, redirection-based.

This backend implements payments using PayPal.com.

Parameters

- client_id Client ID assigned by PayPal or your email address
- secret Secret assigned by PayPal
- **endpoint** The API endpoint to use. For the production environment, use 'https://api.paypal.com' instead
- **capture** Whether to capture the payment automatically. See *Authorization and capture* for more details.

Example:

```
# use sandbox
PAYMENT_VARIANTS = {
    'paypal': ('payments.paypal.PaypalProvider', {
        'client_id': 'user@example.com',
        'secret': 'iseedeadpeople',
        'endpoint': 'https://api.sandbox.paypal.com',
        'capture': False})}
```

```
 \begin{array}{llll} \textbf{class} & \texttt{payments.paypal.PaypalCardProvider} (\textit{client\_id}, & \textit{secret}, & \textit{end-point='https://api.sandbox.paypal.com'}, & \textit{capture=True}) \end{array}
```

Payment provider for Paypal, form-based.

This backend implements payments using PayPal.com but the credit card data is collected by your site.

Parameters are the same as PaypalProvider.

This backend does not support fraud detection.

Example:

```
PAYMENT_VARIANTS = {
    'paypal': ('payments.paypal.PaypalCardProvider', {
        'client_id': 'user@example.com',
        'secret': 'iseedeadpeople'})}
```

5.8 Sage Pay

Example:

```
# use simulator
PAYMENT_VARIANTS = {
    'sage': ('payments.sagepay.SagepayProvider', {
        'vendor': 'example',
        'encryption_key': '1234567890abcdef',
        'endpoint': 'https://test.sagepay.com/Simulator/VSPFormGateway.asp'})}
```

5.9 Sofort / Klarna

Example:

```
PAYMENT_VARIANTS = {
    'sage': ('payments.sofort.SofortProvider', {
        'id': '123456',
        'key': '1234567890abcdef',
        'project_id': '654321',
        'endpoint': 'https://api.sofort.com/api/xml'})}
```

5.10 Stripe

Example:

```
# use sandbox
PAYMENT_VARIANTS = {
   'stripe': ('payments.stripe.StripeProvider', {
        'secret_key': 'sk_test_123456',
        'public_key': 'pk_test_123456'})}
```

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