dj-stripe Documentation

Release 1.1.0

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Getting Started

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- Subscription management
- Designed for easy implementation of post-registration subscription forms
- Single-unit purchases
- Works with Django >= 1.10
- Works with Python 3.6, 3.5, 3.4, 2.7
- Built-in migrations
- Dead-Easy installation
- Leverages the best of the 3rd party Django package ecosystem
- djstripe namespace so you can have more than one payments related app
- Documented
- 100% Tested
- Current API version (2017-06-05), in progress of being updated

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2 Getting Started

CHAPTER 1

Contents

1.1 Installation

1.1.1 Get the distribution

At the command line:

```
$ pip install dj-stripe
```

1.1.2 Configuration

Add djstripe to your INSTALLED_APPS:

```
INSTALLED_APPS += [
    'django.contrib.sites',
    # ...,
    "djstripe",
]
```

Add your Stripe keys and set the operating mode:

Add some payment plans via the Stripe.com dashboard or the django ORM.

Add the following to the *urlpatterns* in your *urls.py* to expose the webhook endpoint:

```
url(r'^payments/', include('djstripe.urls', namespace="djstripe")),
```

Then tell Stripe about the webhook (Stripe webhook docs can be found here) using the full URL of your endpoint from the urls.py step above (e.g. https://yourwebsite.com/payments/webhook).

Run the commands:

```
python manage.py migrate

python manage.py djstripe_init_customers
```

1.1.3 Running Tests

Assuming the tests are run against PostgreSQL:

```
createdb djstripe tox
```

1.2 Checking if a customer has a subscription

No content... yet

1.3 Subscribing a customer to a plan

No content... yet

1.4 Creating a one-off charge for a customer

No content... yet

1.5 Restricting access to only active subscribers

dj-stripe provides three methods to support constraining views to be only accessible to users with active subscriptions:

- Middleware approach to constrain entire projects easily.
- Class-Based View mixin to constrain individual views.
- View decoration to constrain Function-based views.

Warning: anonymous users always raise a ImproperlyConfigured exception.

When anonymous users encounter these components they will raise a django.core.exceptions. ImproperlyConfigured exception. This is done because dj-stripe is not an authentication system, so it does a hard error to make it easier for you to catch where content may not be behind authentication systems.

Any project can use one or more of these methods to control access.

1.5.1 Constraining Entire Sites

If you want to quickly constrain an entire site, the djstripe.middleware. SubscriptionPaymentMiddleware middleware does the following to user requests:

- authenticated users are redirected to djstripe.views.SubscribeFormView unless they:
 - have a valid subscription -or-
 - are superusers (user.is_superuser==True) -or-
 - are staff members (user.is_staff==True).
- anonymous users always raise a django.core.exceptions.ImproperlyConfigured exception when they encounter these systems. This is done because dj-stripe is not an authentication system.

Example:

Step 1: Add the middleware:

```
MIDDLEWARE_CLASSES = (
    ...
    'djstripe.middleware.SubscriptionPaymentMiddleware',
    ...
)
```

Step 2: Specify exempt URLS:

```
# sample only - customize to your own needs!
# djstripe pages are automatically exempt!
DJSTRIPE_SUBSCRIPTION_REQUIRED_EXCEPTION_URLS = (
    'home',
    'about',
    "[spam]", # Anything in the dj-spam namespace
)
```

Using this example any request on this site that isn't on the homepage, about, spam, or djstripe pages is redirected to djstripe.views.SubscribeFormView.

Note: The extensive list of rules for this feature can be found at https://github.com/dj-stripe/dj-stripe/blob/master/djstripe/middleware.py.

See also:

• Settings

1.5.2 Constraining Class-Based Views

If you want to quickly constrain a single Class-Based View, the djstripe.decorators. subscription_payment_required decorator does the following to user requests:

- authenticated users are redirected to djstripe.views.SubscribeFormView unless they:
 - have a valid subscription -or-
 - are superusers (user.is_superuser==True) -or-
 - are staff members (user.is_staff==True).

• anonymous users always raise a django.core.exceptions.ImproperlyConfigured exception when they encounter these systems. This is done because dj-stripe is not an authentication system.

Example:

```
# import necessary Diango stuff
from django.http import HttpResponse
from django.views.generic import View
from django.contrib.auth.decorators import login_required
# import the wonderful decorator
from djstripe.decorators import subscription_payment_required
# import method_decorator which allows us to use function
# decorators on Class-Based View dispatch function.
from django.utils.decorators import method_decorator
class MyConstrainedView(View):
   def get(self, request, *args, **kwargs):
        return HttpResponse("I like cheese")
    @method_decorator(login_required)
    @method_decorator(subscription_payment_required)
    def dispatch(self, *args, **kwargs):
        return super(MyConstrainedView, self).dispatch(*args, **kwargs)
```

If you are unfamiliar with this technique please read the following documentation here.

1.5.3 Constraining Function-Based Views

If you want to quickly constrain a single Function-Based View, the djstripe.decorators. subscription_payment_required decorator does the following to user requests:

- authenticated users are redirected to djstripe.views.SubscribeFormView unless they:
 - have a valid subscription -or-
 - are superusers (user.is_superuser==True) -or-
 - are staff members (user.is_staff==True).
- anonymous users always raise a django.core.exceptions.ImproperlyConfigured exception when they encounter these systems. This is done because dj-stripe is not an authentication system.

Example:

```
# import necessary Django stuff
from django.contrib.auth.decorators import login_required
from django.http import HttpResponse

# import the wonderful decorator
from djstripe.decorators import subscription_payment_required
```

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```
@login_required
@subscription_payment_required
def my_constrained_view(request):
    return HttpResponse("I like cheese")
```

1.5.4 Don't do this!

Described is an anti-pattern. View logic belongs in views.py, not urls.py.

```
# DON'T DO THIS!!!
from django.conf.urls import patterns, url
from django.contrib.auth.decorators import login_required
from djstripe.decorators import subscription_payment_required
from contents import views
urlpatterns = patterns("",
    # Class-Based View anti-pattern
   url(
        r"^content/$",
        # Not using decorators as decorators
        # Harder to see what's going on
        login_required(
            subscription_payment_required(
                views.ContentDetailView.as_view()
        ),
        name="content_detail"
   ),
    # Function-Based View anti-pattern
    url(
        r"^content/$",
        # Example with function view
        login_required(
            subscription_payment_required(
                views.content_list_view
        ),
        name="content_detail"
    ),
```

1.6 Managing subscriptions and payment sources

1.6.1 Extending subscriptions

```
Subscription.extend(*delta*)
```

Subscriptions can be extended by using the Subscription.extend method, which takes a positive timedelta as its only property. This method is useful if you want to offer time-cards, gift-cards, or some other external way of

subscribing users or extending subscriptions, while keeping the billing handling within Stripe.

Warning: Subscription extensions are achieved by manipulating the trial_end of the subscription instance, which means that Stripe will change the status to trialing.

1.7 Creating invoices

No content... yet

1.7.1 Adding line items to invoices

No content... yet

1.8 Running reports

No content... yet

1.9 Webhooks

No content... yet

1.10 Manually syncing data with Stripe

No content... yet

1.11 Cookbook

This is a list of handy recipes that fall outside the domain of normal usage.

1.11.1 Customer User Model has active subscription property

Very useful for working inside of templates or other places where you need to check the subscription status repeatedly. The *cached_property* decorator caches the result of *has_active_subscription* for a object instance, optimizing it for reuse.

```
# -*- coding: utf-8 -*-
from django.contrib.auth.models import AbstractUser
from django.db import models
from django.utils.functional import cached_property
from djstripe.utils import subscriber_has_active_subscription
```

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```
class User(AbstractUser):
    """ Custom fields go here """

    def __str__(self):
        return self.username

    def __unicode__(self):
        return self.username

    @cached_property
    def has_active_subscription(self):
        """Checks if a user has an active subscription."""
        return subscriber_has_active_subscription(self)
```

Usage:

```
class="actions">
<h2>{{ object }}</h2>
<!-- first use of request.user.has_active_subscription -->
<p>
       <small>
          <a href="{% url 'things:update' %}">edit</a>
       </small>
   { % endif % }
{{ object.description }}
<!-- second use of request.user.has_active_subscription -->
{% if request.user.has_active_subscription %}
   <1i>>
      <a href="{% url 'places:create' %}">Add Place</a>
      <a href="{% url 'places:list' %}">View Places</a>
   { % endif % }
```

1.11.2 Making individual purchases

On the subscriber's customer object, use the charge method to generate a Stripe charge. In this example, we're using the user with ID=1 as the subscriber.

```
from decimal import Decimal
from django.contrib.auth import get_user_model
from djstripe.models import Customer

user = get_user_model().objects.get(id=1)
customer, created = Customer.get_or_create(subscriber=user)
```

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```
amount = Decimal(10.00)
customer.charge(amount)
```

Source code for the Customer.charge method is at https://github.com/dj-stripe/dj-stripe/blob/master/djstripe/models.py

1.11.3 **REST API**

The subscriptions can be accessed through a REST API. Make sure you have Django Rest Framework installed (https://github.com/tomchristie/django-rest-framework).

The REST API endpoints require an authenticated user. GET will provide the current subscription of the user. POST will create a new current subscription. DELETE will cancel the current subscription, based on the settings.

```
• /subscription/ (GET)
```

```
- input
```

- * None
- output (200)
 - * id (int)
 - * created (date)
 - * modified (date)
 - * plan (string)
 - * quantity (int)
 - * start (date)
 - * status (string)
 - * cancel_at_period_end (boolean)
 - * canceled_at (date)
 - * current_period_end (date)
 - * current_period_start (date)
 - * ended_at (date)
 - * trial_end (date)
 - * trial_start (date)
 - * amount (float)
 - * customer (int)

• /subscription/ (POST)

- input

- * stripe_token (string)
- * plan (string)
- * charge_immediately (boolean, optional) Does not send an invoice to the Customer immediately

- output (201)

- * stripe_token (string)
- * plan (string)
- /subscription/ (DELETE)
 - input
 - * None
 - Output (204)
 - * None

1.12 Context Managers

Last Updated 2018-05-24

1.12.1 Temporary API Version

```
context_managers.stripe_temporary_api_version(validate=True)
```

Temporarily replace the global api_version used in stripe API calls with the given value.

The original value is restored as soon as context exits.

1.13 Decorators

Last Updated 2018-05-24

1.13.1 Standard Decorators

Payment Required

This couldn't be autodoc'd for some reason. See djstripe.decorators.subscription_payment_required

1.13.2 Event Handling Decorators

More documentation coming on these soon. For now, see our implementations in djstripe.event_handlers

Specific Event(s) Handler

```
webhooks.handler()
```

Decorator that registers a function as a webhook handler.

Functions can be registered for event types (e.g. 'customer') or fully qualified event sub-types (e.g. 'customer.subscription.deleted').

If an event type is specified, the handler will receive callbacks for ALL webhook events of that type. For example, if 'customer' is specified, the handler will receive events for 'customer.subscription.created', 'customer.subscription.updated', etc.

Parameters event_types (str.) – The event type(s) that should be handled.

All Events Handler

```
webhooks.handler_all()
```

Decorator that registers a function as a webhook handler for ALL webhook events.

Handles all webhooks regardless of event type or sub-type.

1.14 Enumerations

Last Updated 2018-05-24

1.14.1 ApiErrorCode

```
class djstripe.enums.ApiErrorCode
    Charge failure error codes.
    https://stripe.com/docs/api#error-codes
    card_declined = 'card_declined'
    choices = (('card_declined', 'Card was declined'), ('expired_card', 'Expired card'), (
    expired_card = 'expired_card'
    incorrect_cvc = 'incorrect_cvc'
    incorrect_number = 'incorrect_number'
    incorrect_zip = 'incorrect_zip'
    invalid cvc = 'invalid cvc'
    invalid_expiry_month = 'invalid_expiry_month'
    invalid_expiry_year = 'invalid_expiry_year'
    invalid_number = 'invalid_number'
    invalid_swipe_data = 'invalid_swipe_data'
    missing = 'missing'
    processing_error = 'processing_error'
1.14.2 BankAccountHolderType
class djstripe.enums.BankAccountHolderType
```

```
choices = (('company', 'Company'), ('individual', 'Individual'))
company = 'company'
individual = 'individual'
```

1.14.3 BankAccountStatus

```
class djstripe.enums.BankAccountStatus
    choices = (('errored', 'Errored'), ('new', 'New'), ('validated', 'Validated'), ('verif
    errored = 'errored'
    new = 'new'
    validated = 'validated'
    verification_failed = 'verification_failed'
    verified = 'verified'
1.14.4 CardCheckResult
class djstripe.enums.CardCheckResult
    choices = (('fail', 'Fail'), ('pass', 'Pass'), ('unavailable', 'Unavailable'), ('unche
    fail = 'fail'
    pass_ = 'pass'
    unavailable = 'unavailable'
    unchecked = 'unchecked'
1.14.5 CardBrand
class djstripe.enums.CardBrand
    AmericanExpress = 'American Express'
    DinersClub = 'Diners Club'
    Discover = 'Discover'
    JCB = 'JCB'
    MasterCard = 'MasterCard'
    Unknown = 'Unknown'
    Visa = 'Visa'
    choices = (('American Express', 'American Express'), ('Diners Club', 'Diners Club'), (
1.14.6 CardFundingType
class djstripe.enums.CardFundingType
    choices = (('credit', 'Credit'), ('debit', 'Debit'), ('prepaid', 'Prepaid'), ('unknown
    credit = 'credit'
```

1.14. Enumerations

```
debit = 'debit'
    prepaid = 'prepaid'
    unknown = 'unknown'
1.14.7 CardTokenizationMethod
class djstripe.enums.CardTokenizationMethod
    android_pay = 'android_pay'
    apple_pay = 'apple_pay'
    choices = (('android_pay', 'Android Pay'), ('apple_pay', 'Apple Pay'))
1.14.8 ChargeStatus
class djstripe.enums.ChargeStatus
    choices = (('failed', 'Failed'), ('pending', 'Pending'), ('succeeded', 'Succeeded'))
    failed = 'failed'
    pending = 'pending'
    succeeded = 'succeeded'
1.14.9 CouponDuration
class djstripe.enums.CouponDuration
    choices = (('forever', 'Forever'), ('once', 'Once'), ('repeating', 'Multi-month'))
    forever = 'forever'
    once = 'once'
    repeating = 'repeating'
1.14.10 DisputeReason
class djstripe.enums.DisputeReason
    bank_cannot_process = 'bank_cannot_process'
    choices = (('bank_cannot_process', 'Bank cannot process'), ('credit_not_processed', 'C
    credit_not_processed = 'credit_not_processed'
    customer_initiated = 'customer_initiated'
    debit_not_authorized = 'debit_not_authorized'
    duplicate = 'duplicate'
```

```
fraudulent = 'fraudulent'
    general = 'general'
    incorrect_account_details = 'incorrect_account_details'
    insufficient_funds = 'insufficient_funds'
    product_not_received = 'product_not_received'
    product_unacceptable = 'product_unacceptable'
    subscription_canceled = 'subscription_canceled'
    unrecognized = 'unrecognized'
1.14.11 DisputeStatus
class djstripe.enums.DisputeStatus
    charge_refunded = 'charge_refunded'
    choices = (('charge_refunded', 'Charge refunded'), ('lost', 'Lost'), ('needs_response'
    lost = 'lost'
    needs_response = 'needs_response'
    under_review = 'under_review'
    warning_closed = 'warning_closed'
    warning_needs_response = 'warning_needs_response'
    warning_under_review = 'warning_under_review'
    won = 'won'
1.14.12 PayoutFailureCode
class djstripe.enums.PayoutFailureCode
    Payout failure error codes.
    https://stripe.com/docs/api#payout_failures
    account_closed = 'account_closed'
    account_frozen = 'account_frozen'
    bank_account_restricted = 'bank_account_restricted'
    bank_ownership_changed = 'bank_ownership_changed'
    choices = (('account_closed', 'Bank account has been closed.'), ('account_frozen', 'Bank account has been closed.')
    could_not_process = 'could_not_process'
    debit_not_authorized = 'debit_not_authorized'
    insufficient_funds = 'insufficient_funds'
    invalid_account_number = 'invalid_account_number'
```

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invalid_currency = 'invalid_currency'

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```
no_account = 'no_account'
    unsupported_card = 'unsupported_card'
1.14.13 PayoutMethod
class djstripe.enums.PayoutMethod
    choices = (('instant', 'Instant'), ('standard', 'Standard'))
    instant = 'instant'
    standard = 'standard'
1.14.14 PayoutStatus
class djstripe.enums.PayoutStatus
    canceled = 'canceled'
    choices = (('canceled', 'Canceled'), ('failed', 'Failed'), ('in_transit', 'In transit'
    failed = 'failed'
    in_transit = 'in_transit'
    paid = 'paid'
    pending = 'pending'
1.14.15 PayoutType
class djstripe.enums.PayoutType
    bank_account = 'bank_account'
    card = 'card'
    choices = (('bank_account', 'Bank account'), ('card', 'Card'))
1.14.16 PlanInterval
class djstripe.enums.PlanInterval
    choices = (('day', 'Day'), ('month', 'Month'), ('week', 'Week'), ('year', 'Year'))
    day = 'day'
    month = 'month'
    week = 'week'
    year = 'year'
```

1.14.17 SourceFlow

sofort = 'sofort'

three_d_secure = 'three_d_secure'

```
class djstripe.enums.SourceFlow
              choices = (('code_verification', 'Code verification'), ('none', 'None'), ('receiver',
              code_verification = 'code_verification'
              none = 'none'
              receiver = 'receiver'
              redirect = 'redirect'
1.14.18 SourceStatus
class djstripe.enums.SourceStatus
              canceled = 'canceled'
              chargeable = 'chargeable'
              choices = (('canceled', 'Canceled'), ('chargeable', 'Chargeable'), ('consumed', 'Consumed', 'Cons
              consumed = 'consumed'
              failed = 'failed'
              pending = 'pending'
1.14.19 SourceType
class djstripe.enums.SourceType
              ach_credit_transfer = 'ach_credit_transfer'
              alipay = 'alipay'
              bancontact = 'bancontact'
              bitcoin = 'bitcoin'
              card = 'card'
              choices = (('ach_credit_transfer', 'ACH Credit Transfer'), ('alipay', 'Alipay'), ('ban
              giropay = 'giropay'
              ideal = 'ideal'
              p24 = 'p24'
              sepa_debit = 'sepa_debit'
```

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1.14.20 LegacySourceType

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```
class djstripe.enums.LegacySourceType
    alipay_account = 'alipay_account'
    bank_account = 'bank_account'
    bitcoin_receiver = 'bitcoin_receiver'
    card = 'card'
    choices = (('alipay_account', 'Alipay account'), ('bank_account', 'Bank account'), ('bank_account')
1.14.21 SourceUsage
class djstripe.enums.SourceUsage
    choices = (('reusable', 'Reusable'), ('single_use', 'Single-use'))
    reusable = 'reusable'
    single_use = 'single_use'
1.14.22 SourceCodeVerificationStatus
class djstripe.enums.SourceCodeVerificationStatus
    choices = (('failed', 'Failed'), ('pending', 'Pending'), ('succeeded', 'Succeeded'))
    failed = 'failed'
    pending = 'pending'
    succeeded = 'succeeded'
1.14.23 SourceRedirectFailureReason
class djstripe.enums.SourceRedirectFailureReason
    choices = (('declined', 'Declined'), ('processing_error', 'Processing error'), ('user_
    declined = 'declined'
    processing_error = 'processing_error'
    user_abort = 'user_abort'
1.14.24 SourceRedirectStatus
class djstripe.enums.SourceRedirectStatus
    choices = (('failed', 'Failed'), ('not_required', 'Not required'), ('pending', 'Pendin
```

```
failed = 'failed'
not_required = 'not_required'
pending = 'pending'
succeeded = 'succeeded'
```

1.14.25 SubscriptionStatus

```
class djstripe.enums.SubscriptionStatus

active = 'active'

canceled = 'canceled'

choices = (('active', 'Active'), ('canceled', 'Canceled'), ('past_due', 'Past due'), (
   past_due = 'past_due'

trialing = 'trialing'

unpaid = 'unpaid'
```

1.15 Managers

Last Updated 2018-05-24

1.15.1 SubscriptionManager

```
class djstripe.managers.SubscriptionManager
     Manager used in models. Subscription.
     started_during (year, month)
          Return Subscriptions not in trial status between a certain time range.
     active()
          Return active Subscriptions.
     canceled()
          Return canceled Subscriptions.
     canceled_during (year, month)
          Return Subscriptions canceled during a certain time range.
     started_plan_summary_for (year, month)
          Return started_during Subscriptions with plan counts annotated.
     active_plan_summary()
          Return active Subscriptions with plan counts annotated.
     canceled_plan_summary_for (year, month)
          Return Subscriptions canceled within a time range with plan counts annotated.
     churn()
          Return number of canceled Subscriptions divided by active Subscriptions.
```

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1.15.2 TransferManager

```
class djstripe.managers.TransferManager
    Manager used by models.Transfer.

during (year, month)
    Return Transfers between a certain time range.

paid_totals_for (year, month)
    Return paid Transfers during a certain year, month with total amounts annotated.
```

1.15.3 ChargeManager

```
class djstripe.managers.ChargeManager
    Manager used by models.Charge.

during (year, month)
    Return Charges between a certain time range based on created.

paid_totals_for (year, month)
    Return paid Charges during a certain year, month with total amount, fee and refunded annotated.
```

1.16 Middleware

Last Updated 2018-05-24

1.16.1 SubscriptionPaymentMiddleware

```
class djstripe.middleware.SubscriptionPaymentMiddleware(get_response=None) Used to redirect users from subcription-locked request destinations.
```

Rules:

- "(app_name)" means everything from this app is exempt
- "[namespace]" means everything with this name is exempt
- "namespace:name" means this namespaced URL is exempt
- "name" means this URL is exempt
- The entire distripe namespace is exempt
- If settings.DEBUG is True, then django-debug-toolbar is exempt
- A 'fn:' prefix means the rest of the URL is fnmatch'd.

Example:

```
DJSTRIPE_SUBSCRIPTION_REQUIRED_EXCEPTION_URLS = (
    "[blogs]", # Anything in the blogs namespace
    "products:detail", # A ProductDetail view you want shown to non-payers
    "home", # Site homepage
    "fn:/accounts*", # anything in the accounts/ URL path
)
```

1.17 Models

Models hold the bulk of the functionality included in the dj-stripe package. Each model is tied closely to its corresponding object in the stripe dashboard. Fields that are not implemented for each model have a short reason behind the decision in the docstring for each model.

Last Updated 2018-05-24

1.17.1 Charge

```
class djstripe.models.Charge(*args, **kwargs)
```

To charge a credit or a debit card, you create a charge object. You can retrieve and refund individual charges as well as list all charges. Charges are identified by a unique random ID. (Source: https://stripe.com/docs/api/python#charges)

= Mapping the values of this field isn't currently on our roadmap. Please use the stripe dashboard to check the value of this field instead.

Fields not implemented:

- object Unnecessary. Just check the model name.
- application_fee #. Coming soon with stripe connect functionality
- balance transaction #
- order #
- · refunds #
- source_transfer #

Attention: Stripe API_VERSION: model fields audited to 2016-06-05 - @jleclanche

Parameters

- djstripe_id (BigAutoField) Id
- stripe_id (StripeIdField) Stripe id
- **livemode** (StripeNullBooleanField) Null here indicates that the livemode status is unknown or was previously unrecorded. Otherwise, this field indicates whether this record comes from Stripe test mode or live mode operation.
- **created** (StripeDateTimeField) The datetime this object was created in stripe.
- metadata (StripeJSONField) A set of key/value pairs that you can attach to an object. It can be useful for storing additional information about an object in a structured format.
- **description** (StripeTextField) A description of this object.
- **djstripe_created** (DateTimeField) Djstripe created
- djstripe_updated (DateTimeField) Djstripe updated
- amount (StripeCurrencyField) Amount charged.
- amount_refunded (StripeCurrencyField) Amount refunded (can be less than the amount attribute on the charge if a partial refund was issued).

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- **captured** (StripeBooleanField) If the charge was created without capturing, this boolean represents whether or not it is still uncaptured or has since been captured.
- **currency** (StripeCharField) Three-letter ISO currency code representing the currency in which the charge was made.
- **customer** (ForeignKey to *Customer*) The customer associated with this charge.
- account (ForeignKey to Account) The account the charge was made on behalf of. Null here indicates that this value was never set.
- **dispute** (ForeignKey to *Dispute*) Details about the dispute if the charge has been disputed.
- **failure_code** (StripeEnumField) Error code explaining reason for charge failure if available.
- **failure_message** (StripeTextField) Message to user further explaining reason for charge failure if available.
- **fraud_details** (StripeJSONField) Hash with information on fraud assessments for the charge.
- **invoice** (ForeignKey to *Invoice*) The invoice this charge is for if one exists.
- **outcome** (*StripeJSONField*) Details about whether or not the payment was accepted, and why.
- **paid** (StripeBooleanField) True if the charge succeeded, or was successfully authorized for later capture, False otherwise.
- receipt_email (StripeCharField) The email address that the receipt for this charge was sent to.
- **receipt_number** (StripeCharField) The transaction number that appears on email receipts sent for this charge.
- **refunded** (StripeBooleanField) Whether or not the charge has been fully refunded. If the charge is only partially refunded, this attribute will still be false.
- **shipping** (StripeJSONField) **Shipping** information for the charge
- **source** (PaymentMethodForeignKey to PaymentMethod) The source used for this charge.
- **statement_descriptor** (StripeCharField) An arbitrary string to be displayed on your customer's credit card statement. The statement description may not include <>" characters, and will appear on your customer's statement in capital letters. Non-ASCII characters are automatically stripped. While most banks display this information consistently, some may display it incorrectly or not at all.
- **status** (*StripeEnumField*) The status of the payment.
- **transfer** (ForeignKey to *Transfer*) The transfer to the destination account (only applicable if the charge was created using the destination parameter).
- **transfer_group** (*StripeCharField*) A string that identifies this transaction as part of a group.
- **fee** (StripeCurrencyField) Fee
- **fee_details** (StripeJSONField) Fee details

- **source_type** (StripeEnumField) The payment source type. If the payment source is supported by dj-stripe, a corresponding model is attached to this Charge via a foreign key matching this field.
- source_stripe_id (StripeIdField) The payment source id.
- **fraudulent** (StripeBooleanField) Whether or not this charge was marked as fraudulent.
- receipt_sent (BooleanField) Whether or not a receipt was sent for this charge.

classmethod api_list(api_key=", **kwargs)

Call the stripe API's list operation for this model.

Parameters api_key (*string*) – The api key to use for this request. Defualts to djstripe_settings.STRIPE_SECRET_KEY.

See Stripe documentation for accepted kwargs for each object.

Returns an iterator over all items in the query

api_retrieve (api_key=None)

Call the stripe API's retrieve operation for this model.

Parameters api_key (string) – The api key to use for this request. Defaults to settings.STRIPE SECRET KEY.

get_stripe_dashboard_url()

Get the stripe dashboard url for this object.

disputed

```
refund(amount=None, reason=None)
```

Initiate a refund. If amount is not provided, then this will be a full refund.

Parameters

- amount A positive decimal amount representing how much of this charge to refund. Can only refund up to the unrefunded amount remaining of the charge.
- reason String indicating the reason for the refund. If set, possible values are duplicate, fraudulent, and requested_by_customer. Specifying fraudulent as the reason when you believe the charge to be fraudulent will help Stripe improve their fraud detection algorithms.

Trye amount Decimal

Returns Stripe charge object

Return type dict

capture()

Capture the payment of an existing, uncaptured, charge. This is the second half of the two-step payment flow, where first you created a charge with the capture option set to False.

See https://stripe.com/docs/api#capture_charge

str_parts()

Extend this to add information to the string representation of the object

Return type list of str

${\tt classmethod sync_from_stripe_data} \ (\textit{data})$

Syncs this object from the stripe data provided.

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Parameters data (dict) - stripe object

1.17.2 Customer

class djstripe.models.Customer(*args, **kwargs)

Customer objects allow you to perform recurring charges and track multiple charges that are associated with the same customer. (Source: https://stripe.com/docs/api/python#customers)

= Mapping the values of this field isn't currently on our roadmap. Please use the stripe dashboard to check the value of this field instead.

Fields not implemented:

- **object** Unnecessary. Just check the model name.
- discount #

Attention: Stripe API_VERSION: model fields and methods audited to 2017-06-05 - @jleclanche

Parameters

- djstripe_id (BigAutoField) Id
- stripe id (StripeIdField) Stripe id
- **livemode** (StripeNullBooleanField) Null here indicates that the livemode status is unknown or was previously unrecorded. Otherwise, this field indicates whether this record comes from Stripe test mode or live mode operation.
- **created** (StripeDateTimeField) The datetime this object was created in stripe.
- metadata (StripeJSONField) A set of key/value pairs that you can attach to an object. It can be useful for storing additional information about an object in a structured format.
- **description** (StripeTextField) A description of this object.
- djstripe_created (DateTimeField) Djstripe created
- djstripe_updated (DateTimeField) Djstripe updated
- account_balance (StripeIntegerField) Current balance, if any, being stored on the customer's account. If negative, the customer has credit to apply to the next invoice. If positive, the customer has an amount owed that will be added to thenext invoice. The balance does not refer to any unpaid invoices; it solely takes into account amounts that have yet to be successfullyapplied to any invoice. This balance is only taken into account for recurring billing purposes (i.e., subscriptions, invoices, invoice items).
- business_vat_id (StripeCharField) The customer's VAT identification number.
- **currency** (*StripeCharField*) The currency the customer can be charged in for recurring billing purposes (subscriptions, invoices, invoice items).
- default_source (PaymentMethodForeignKey to PaymentMethod) Default source
- delinquent (StripeBooleanField) Whether or not the latest charge for the customer's latest invoice has failed.
- coupon (ForeignKey to Coupon) Coupon

- **coupon_start** (StripeDateTimeField) If a coupon is present, the date at which it was applied.
- **coupon_end** (StripeDateTimeField) If a coupon is present and has a limited duration, the date that the discount will end.
- email (StripeTextField) Email
- **shipping** (StripeJSONField) Shipping information associated with the customer.
- subscriber (ForeignKey to User) Subscriber
- date_purged (DateTimeField) Date purged

classmethod api_list(api_key=", **kwargs)

Call the stripe API's list operation for this model.

Parameters api_key (*string*) – The api key to use for this request. Defualts to djstripe_settings.STRIPE_SECRET_KEY.

See Stripe documentation for accepted kwargs for each object.

Returns an iterator over all items in the query

api_retrieve (api_key=None)

Call the stripe API's retrieve operation for this model.

Parameters api_key (string) – The api key to use for this request. Defaults to settings.STRIPE_SECRET_KEY.

get stripe dashboard url()

Get the stripe dashboard url for this object.

classmethod get_or_create (subscriber, livemode=False)

Get or create a dj-stripe customer.

Parameters

- subscriber (User) The subscriber model instance for which to get or create a customer.
- **livemode** (bool) Whether to get the subscriber in live or test mode.

legacy_cards

Transitional property for Customer.sources. Use this instead of Customer.sources if you want to access the legacy Card queryset.

credits

The customer is considered to have credits if their account balance is below 0.

pending_charges

The customer is considered to have pending charges if their account_balance is above 0.

subscribe (plan, charge_immediately=True, application_fee_percent=None, coupon=None, quantity=None, metadata=None, tax_percent=None, trial_end=None)
Subscribes this customer to a plan.

Parameters not implemented:

• **source** - Subscriptions use the customer's default source. Including the source parameter creates a new source for this customer and overrides the default source. This functionality is not desired; add a source to the customer before attempting to add a subscription.

Parameters

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- plan (Plan or string (plan ID)) The plan to which to subscribe the customer.
- application_fee_percent (Decimal. Precision is 2; anything more will be ignored. A positive decimal between 1 and 100.)

 This represents the percentage of the subscription invoice subtotal that will be transferred to the application owner's Stripe account. The request must be made with an OAuth key in order to set an application fee percentage.
- **coupon** (string) The code of the coupon to apply to this subscription. A coupon applied to a subscription will only affect invoices created for that particular subscription.
- quantity (integer) The quantity applied to this subscription. Default is 1.
- metadata (dict) A set of key/value pairs useful for storing additional information.
- tax_percent (Decimal. Precision is 2; anything more will be ignored. A positive decimal between 1 and 100.) This represents the percentage of the subscription invoice subtotal that will be calculated and added as tax to the final amount each billing period.
- trial_end (datetime) The end datetime of the trial period the customer will get before being charged for the first time. If set, this will override the default trial period of the plan the customer is being subscribed to. The special value now can be provided to end the customer's trial immediately.
- **charge_immediately** (boolean) Whether or not to charge for the subscription upon creation. If False, an invoice will be created at the end of this period.

charge (amount, currency=None, application_fee=None, capture=None, description=None, destination=None, metadata=None, shipping=None, source=None, statement_descriptor=None)
Creates a charge for this customer.

Parameters not implemented:

• receipt_email - Since this is a charge on a customer, the customer's email address is used.

Parameters

- amount (Decimal. Precision is 2; anything more will be ignored.) The amount to charge.
- currency (string) 3-letter ISO code for currency
- application_fee (Decimal. Precision is 2; anything more will be ignored.) A fee that will be applied to the charge and transfered to the platform owner's account.
- **capture** (bool) Whether or not to immediately capture the charge. When false, the charge issues an authorization (or pre-authorization), and will need to be captured later. Uncaptured charges expire in 7 days. Default is True
- description (string) An arbitrary string.
- **destination** (Account) An account to make the charge on behalf of.
- metadata (dict) A set of key/value pairs useful for storing additional information.
- **shipping** (dict) Shipping information for the charge.
- **source** (*string*, Source) The source to use for this charge. Must be a source attributed to this customer. If None, the customer's default source is used. Can be either the id of the source or the source object itself.

• **statement_descriptor** (*string*) – An arbitrary string to be displayed on the customer's credit card statement.

Adds an arbitrary charge or credit to the customer's upcoming invoice. Different than creating a charge. Charges are separate bills that get processed immediately. Invoice items are appended to the customer's next invoice. This is extremely useful when adding surcharges to subscriptions.

Parameters

- amount (Decimal. Precision is 2; anything more will be ignored.) The amount to charge.
- currency (string) 3-letter ISO code for currency
- description (string) An arbitrary string.
- **discountable** (boolean) Controls whether discounts apply to this invoice item. Defaults to False for prorations or negative invoice items, and True for all other invoice items.
- invoice (Invoice or string (invoice ID)) An existing invoice to add this invoice item to. When left blank, the invoice item will be added to the next upcoming scheduled invoice. Use this when adding invoice items in response to an invoice. created webhook. You cannot add an invoice item to an invoice that has already been paid, attempted or closed.
- metadata (dict) A set of key/value pairs useful for storing additional information.
- **subscription** (Subscription or string (subscription ID))—A subscription to add this invoice item to. When left blank, the invoice item will be be added to the next upcoming scheduled invoice. When set, scheduled invoices for subscriptions other than the specified subscription will ignore the invoice item. Use this when you want to express that an invoice item has been accrued within the context of a particular subscription.

add_card (source, set_default=True)

Adds a card to this customer's account.

Parameters

- **source** (*string*, *dict*) Either a token, like the ones returned by our Stripe.js, or a dictionary containing a user's credit card details. Stripe will automatically validate the card.
- **set_default** (boolean) Whether or not to set the source as the customer's default source

purge()

has_active_subscription(plan=None)

Checks to see if this customer has an active subscription to the given plan.

Parameters plan (Plan or string (plan ID)) – The plan for which to check for an active subscription. If plan is None and there exists only one active subscription, this method will check if that subscription is valid. Calling this method with no plan and multiple valid subscriptions for this customer will throw an exception.

Returns True if there exists an active subscription, False otherwise.

Throws TypeError if plan is None and more than one active subscription exists for this customer.

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has_any_active_subscription()

Checks to see if this customer has an active subscription to any plan.

Returns True if there exists an active subscription, False otherwise.

Throws TypeError if plan is None and more than one active subscription exists for this customer.

active_subscriptions

Returns active subscriptions (subscriptions with an active status that end in the future).

valid_subscriptions

Returns this cusotmer's valid subscriptions (subscriptions that aren't cancelled.

subscription

Shortcut to get this customer's subscription.

Returns None if the customer has no subscriptions, the subscription if the customer has a subscription.

Raises MultipleSubscriptionException - Raised if the customer has multiple subscriptions. In this case, use Customer.subscriptions instead.

can_charge()

Determines if this customer is able to be charged.

send_invoice()

Pay and send the customer's latest invoice.

Returns True if an invoice was able to be created and paid, False otherwise (typically if there was nothing to invoice).

retry_unpaid_invoices()

Attempt to retry collecting payment on the customer's unpaid invoices.

has_valid_source()

Check whether the customer has a valid payment source.

add_coupon (coupon, idempotency_key=None)

Add a coupon to a Customer.

The coupon can be a Coupon object, or a valid Stripe Coupon ID.

upcoming_invoice(**kwargs)

Gets the upcoming preview invoice (singular) for this customer.

See Invoice.upcoming().

The customer argument to the upcoming () call is automatically set by this method.

str_parts()

Extend this to add information to the string representation of the object

Return type list of str

classmethod sync_from_stripe_data(data)

Syncs this object from the stripe data provided.

Parameters data (dict) – stripe object

1.17.3 Dispute

Parameters

- djstripe_id(BigAutoField) Id
- stripe_id (StripeIdField) Stripe id
- **livemode** (*StripeNullBooleanField*) Null here indicates that the livemode status is unknown or was previously unrecorded. Otherwise, this field indicates whether this record comes from Stripe test mode or live mode operation.
- **created** (StripeDateTimeField) The datetime this object was created in stripe.
- metadata (StripeJSONField) A set of key/value pairs that you can attach to an
 object. It can be useful for storing additional information about an object in a structured
 format.
- **description** (StripeTextField) A description of this object.
- djstripe created (DateTimeField) Djstripe created
- djstripe_updated (DateTimeField) Djstripe updated
- amount (StripeIntegerField) Disputed amount. Usually the amount of the charge, but can differ (usually because of currency fluctuation or because only part of the order is disputed).
- currency (StripeCharField) Three-letter ISO currency code.
- evidence (StripeJSONField) Evidence provided to respond to a dispute.
- evidence_details (StripeJSONField) Information about the evidence submission.
- **is_charge_refundable** (StripeBooleanField) If true, it is still possible to refund the disputed payment. Once the payment has been fully refunded, no further funds will be withdrawn from your Stripe account as a result of this dispute.
- reason (StripeEnumField) Reason
- **status** (StripeEnumField) Status

classmethod api_list(api_key=", **kwargs)

Call the stripe API's list operation for this model.

Parameters api_key (*string*) – The api key to use for this request. Defualts to djstripe_settings.STRIPE_SECRET_KEY.

See Stripe documentation for accepted kwargs for each object.

Returns an iterator over all items in the query

api_retrieve (api_key=None)

Call the stripe API's retrieve operation for this model.

Parameters api_key (string) – The api key to use for this request. Defaults to settings.STRIPE_SECRET_KEY.

get_stripe_dashboard_url()

Get the stripe dashboard url for this object.

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```
str parts()
```

Extend this to add information to the string representation of the object

Return type list of str

classmethod sync_from_stripe_data(data)

Syncs this object from the stripe data provided.

Parameters data (dict) – stripe object

1.17.4 Event

```
class djstripe.models.Event(*args, **kwargs)
```

Events are POSTed to our webhook url. They provide information about a Stripe event that just happened. Events are processed in detail by their respective models (charge events by the Charge model, etc).

API VERSIONING

This is a tricky matter when it comes to webhooks. See the discussion here.

In this discussion, it is noted that Webhooks are produced in one API version, which will usually be different from the version supported by Stripe plugins (such as djstripe). The solution, described there, is:

- validate the receipt of a webhook event by doing an event get using the API version of the received hook event.
- 2. retrieve the referenced object (e.g. the Charge, the Customer, etc) using the plugin's supported API version.
- 3. process that event using the retrieved object which will, only now, be in a format that you are certain to understand
- **# = Mapping the values of this field isn't currently on our roadmap.** Please use the stripe dashboard to check the value of this field instead.

Fields not implemented:

- **object** Unnecessary. Just check the model name.
- pending_webhooks Unnecessary. Use the dashboard.

Attention: Stripe API_VERSION: model fields and methods audited to 2016-03-07 - @kavdev

Parameters

- $\bullet \ \, \textbf{djstripe_id} \, (\textit{BigAutoField}) Id \\$
- stripe id (StripeIdField) Stripe id
- **livemode** (StripeNullBooleanField) Null here indicates that the livemode status is unknown or was previously unrecorded. Otherwise, this field indicates whether this record comes from Stripe test mode or live mode operation.
- **created** (StripeDateTimeField) The datetime this object was created in stripe.
- metadata (StripeJSONField) A set of key/value pairs that you can attach to an object. It can be useful for storing additional information about an object in a structured format.
- **description** (StripeTextField) A description of this object.
- djstripe_created (DateTimeField) Djstripe created

- djstripe_updated (DateTimeField) Djstripe updated
- api_version (StripeCharField) the API version at which the event data was rendered. Blank for old entries only, all new entries will have this value
- data (StripeJSONField) data received at webhook. data should be considered to be garbage until validity check is run and valid flag is set
- request_id (StripeCharField) Information about the request that triggered this event, for traceability purposes. If empty string then this is an old entry without that data. If Null then this is not an old entry, but a Stripe 'automated' event with no associated request.
- idempotency_key (StripeTextField) Idempotency key
- type (StripeCharField) Stripe's event description code

classmethod api_list(api_key=", **kwargs)

Call the stripe API's list operation for this model.

Parameters api_key (*string*) – The api key to use for this request. Defualts to djstripe_settings.STRIPE_SECRET_KEY.

See Stripe documentation for accepted kwargs for each object.

Returns an iterator over all items in the query

```
api_retrieve (api_key=None)
```

Call the stripe API's retrieve operation for this model.

Parameters api_key (string) – The api key to use for this request. Defaults to settings.STRIPE SECRET KEY.

classmethod process (data)

```
invoke_webhook_handlers()
```

Invokes any webhook handlers that have been registered for this event based on event type or event subtype.

See event handlers registered in the djstripe.event_handlers module (or handlers registered in djstripe plugins or contrib packages).

parts

Gets the event category/verb as a list of parts.

category

Gets the event category string (e.g. 'customer').

verb

Gets the event past-tense verb string (e.g. 'updated').

customer

str_parts()

Extend this to add information to the string representation of the object

Return type list of str

classmethod StripeObject.sync_from_stripe_data(data)

Syncs this object from the stripe data provided.

Parameters data (dict) – stripe object

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1.17.5 Payout

Parameters

- djstripe_id (BigAutoField) Id
- stripe_id (StripeIdField) Stripe id
- **livemode** (StripeNullBooleanField) Null here indicates that the livemode status is unknown or was previously unrecorded. Otherwise, this field indicates whether this record comes from Stripe test mode or live mode operation.
- **created** (StripeDateTimeField) The datetime this object was created in stripe.
- metadata (StripeJSONField) A set of key/value pairs that you can attach to an object. It can be useful for storing additional information about an object in a structured format.
- **description** (StripeTextField) A description of this object.
- djstripe_created (DateTimeField) Djstripe created
- djstripe_updated (DateTimeField) Djstripe updated
- amount (StripeCurrencyField) Amount to be transferred to your bank account or debit card.
- **arrival_date** (StripeDateTimeField) Date the payout is expected to arrive in the bank. This factors in delays like weekends or bank holidays.
- **currency** (StripeCharField) Three-letter ISO currency code.
- **destination** (ForeignKey to *BankAccount*) ID of the bank account or card the payout was sent to.
- **failure_code** (StripeEnumField) Error code explaining reason for transfer failure if available. See https://stripe.com/docs/api/python#transfer_failures.
- **failure_message** (StripeTextField) Message to user further explaining reason for payout failure if available.
- **method** (StripeEnumField) The method used to send this payout. *instant* is only supported for payouts to debit cards.
- **statement_descriptor** (*StripeCharField*) Extra information about a payout to be displayed on the user's bank statement.
- **status** (StripeEnumField) Current status of the payout. A payout will be *pending* until it is submitted to the bank, at which point it becomes *in_transit*. It will then change to paid if the transaction goes through. If it does not go through successfully, its status will change to *failed* or *canceled*.
- type (StripeEnumField) Type

classmethod api_list (api_key=", **kwargs)

Call the stripe API's list operation for this model.

Parameters api_key (string) - The api key to use for this request. Defualts to djstripe_settings.STRIPE_SECRET_KEY.

See Stripe documentation for accepted kwargs for each object.

Returns an iterator over all items in the query

api_retrieve (api_key=None)

Call the stripe API's retrieve operation for this model.

Parameters api_key (string) – The api key to use for this request. Defaults to settings.STRIPE SECRET KEY.

get stripe dashboard url()

Get the stripe dashboard url for this object.

str_parts()

Extend this to add information to the string representation of the object

Return type list of str

classmethod sync_from_stripe_data(data)

Syncs this object from the stripe data provided.

Parameters data (dict) – stripe object

1.17.6 BankAccount

Parameters

- djstripe_id(BigAutoField) Id
- **stripe_id** (StripeIdField) Stripe id
- **livemode** (*StripeNullBooleanField*) Null here indicates that the livemode status is unknown or was previously unrecorded. Otherwise, this field indicates whether this record comes from Stripe test mode or live mode operation.
- created (StripeDateTimeField) The datetime this object was created in stripe.
- metadata (StripeJSONField) A set of key/value pairs that you can attach to an object. It can be useful for storing additional information about an object in a structured format.
- **description** (StripeTextField) A description of this object.
- djstripe_created (DateTimeField) Djstripe created
- djstripe_updated (DateTimeField) Djstripe updated
- account (ForeignKey to Account) The account the charge was made on behalf of. Null here indicates that this value was never set.
- account_holder_name (StripeCharField) The name of the person or business that owns the bank account.
- account_holder_type (StripeEnumField) The type of entity that holds the account.
- bank_name (StripeCharField) Name of the bank associated with the routing number (e.g., WELLS FARGO).

- **country** (StripeCharField) Two-letter ISO code representing the country the bank account is located in.
- currency (StripeCharField) Three-letter ISO currency code
- **customer** (ForeignKey to Customer) Customer
- **default_for_currency** (StripeNullBooleanField) Whether this external account is the default account for its currency.
- **fingerprint** (StripeCharField) Uniquely identifies this particular bank account. You can use this attribute to check whether two bank accounts are the same.
- last4 (StripeCharField) Last4
- routing_number (StripeCharField) The routing transit number for the bank account.
- status (StripeEnumField) Status

```
classmethod api_list(api_key=", **kwargs)
```

Call the stripe API's list operation for this model.

Parameters api_key (*string*) – The api key to use for this request. Defualts to djstripe_settings.STRIPE_SECRET_KEY.

See Stripe documentation for accepted kwargs for each object.

Returns an iterator over all items in the query

```
api_retrieve (api_key=None)
```

Call the stripe API's retrieve operation for this model.

Parameters api_key (string) – The api key to use for this request. Defaults to settings.STRIPE_SECRET_KEY.

get_stripe_dashboard_url()

Get the stripe dashboard url for this object.

```
str_parts()
```

Extend this to add information to the string representation of the object

Return type list of str

classmethod sync_from_stripe_data(data)

Syncs this object from the stripe data provided.

Parameters data (dict) - stripe object

1.17.7 Card

```
class djstripe.models.Card(*args, **kwargs)
```

You can store multiple cards on a customer in order to charge the customer later. (Source: https://stripe.com/docs/api/python#cards)

= Mapping the values of this field isn't currently on our roadmap. Please use the stripe dashboard to check the value of this field instead.

Fields not implemented:

- **object** Unnecessary. Just check the model name.
- recipient On Stripe's deprecation path.
- account #

- currency #
- default_for_currency #

Attention: Stripe API VERSION: model fields and methods audited to 2016-03-07 - @kavdev

Parameters

- djstripe_id (BigAutoField) Id
- stripe_id (StripeIdField) Stripe id
- **livemode** (StripeNullBooleanField) Null here indicates that the livemode status is unknown or was previously unrecorded. Otherwise, this field indicates whether this record comes from Stripe test mode or live mode operation.
- **created** (StripeDateTimeField) The datetime this object was created in stripe.
- **metadata** (StripeJSONField) A set of key/value pairs that you can attach to an object. It can be useful for storing additional information about an object in a structured format.
- **description** (StripeTextField) A description of this object.
- djstripe_created (DateTimeField) Djstripe created
- djstripe updated (DateTimeField) Djstripe updated
- address_city (StripeTextField) Billing address city.
- address_country (StripeTextField) Billing address country.
- address_line1 (StripeTextField) Billing address (Line 1).
- address_line1_check (StripeEnumField) If address_line1 was provided, results of the check.
- address_line2 (StripeTextField) Billing address (Line 2).
- address_state (StripeTextField) Billing address state.
- address_zip (StripeTextField) Billing address zip code.
- address_zip_check (StripeEnumField) If address_zip was provided, results of the check.
- brand (StripeEnumField) Card brand.
- **country** (StripeCharField) Two-letter ISO code representing the country of the card.
- cvc_check (StripeEnumField) If a CVC was provided, results of the check.
- **dynamic_last4** (*StripeCharField*) (For tokenized numbers only.) The last four digits of the device account number.
- exp month (StripeIntegerField) Card expiration month.
- **exp_year** (StripeIntegerField) Card expiration year.
- **fingerprint** (StripeTextField) Uniquely identifies this particular card number.
- **funding** (StripeEnumField) Card funding type.
- last4 (StripeCharField) Last four digits of Card number.

- name (StripeTextField) Cardholder name.
- **tokenization_method** (StripeEnumField) If the card number is tokenized, this is the method that was used.
- customer (ForeignKey to Customer) Customer

classmethod api list(api key=", **kwargs)

Call the stripe API's list operation for this model.

Parameters api_key (string) - The api key to use for this request. Defualts to djstripe_settings.STRIPE_SECRET_KEY.

See Stripe documentation for accepted kwargs for each object.

Returns an iterator over all items in the query

api_retrieve (api_key=None)

Call the stripe API's retrieve operation for this model.

Parameters api_key (string) – The api key to use for this request. Defaults to settings.STRIPE SECRET KEY.

get_stripe_dashboard_url()

Get the stripe dashboard url for this object.

remove()

Removes a card from this customer's account.

classmethod create_token (number, exp_month, exp_year, cvc, api_key=", **kwargs)

Creates a single use token that wraps the details of a credit card. This token can be used in place of a credit card dictionary with any API method. These tokens can only be used once: by creating a new charge object, or attaching them to a customer. (Source: https://stripe.com/docs/api/python#create_card_token)

Parameters

- exp_month (Two digit int) The card's expiration month.
- exp_year (Two or Four digit int) The card's expiration year.
- number(string without any separators (no spaces))-The card number
- **cvc** (*string*) Card security code.

str_parts()

Extend this to add information to the string representation of the object

Return type list of str

```
classmethod StripeObject.sync_from_stripe_data(data)
```

Syncs this object from the stripe data provided.

Parameters data (dict) – stripe object

1.17.8 Source

- djstripe_id (BigAutoField) Id
- **stripe_id** (StripeIdField) Stripe id
- **livemode** (StripeNullBooleanField) Null here indicates that the livemode status is unknown or was previously unrecorded. Otherwise, this field indicates whether this record comes from Stripe test mode or live mode operation.
- **created** (StripeDateTimeField) The datetime this object was created in stripe.
- **metadata** (StripeJSONField) A set of key/value pairs that you can attach to an object. It can be useful for storing additional information about an object in a structured format.
- **description** (StripeTextField) A description of this object.
- djstripe_created (DateTimeField) Djstripe created
- djstripe_updated (DateTimeField) Djstripe updated
- **amount** (StripeCurrencyField) Amount associated with the source. This is the amount for which the source will be chargeable once ready. Required for *single_use* sources.
- **client_secret** (*StripeCharField*) The client secret of the source. Used for client-side retrieval using a publishable key.
- currency (StripeCharField) Three-letter ISO currency code
- **flow** (*StripeEnumField*) The authentication flow of the source.
- **owner** (StripeJSONField) Information about the owner of the payment instrument that may be used or required by particular source types.
- **statement_descriptor** (StripeCharField) Extra information about a source. This will appear on your customer's statement every time you charge the source.
- **status** (*StripeEnumField*) The status of the source. Only *chargeable* sources can be used to create a charge.
- type (StripeEnumField) The type of the source.
- **usage** (StripeEnumField) Whether this source should be reusable or not. Some source types may or may not be reusable by construction, while other may leave the option at creation.
- **code_verification** (StripeJSONField) Information related to the code verification flow. Present if the source is authenticated by a verification code (flow is code verification).
- **receiver** (*StripeJSONField*) Information related to the receiver flow. Present if the source is a receiver (*flow* is *receiver*).
- **redirect** (StripeJSONField) Information related to the redirect flow. Present if the source is authenticated by a redirect (flow is redirect).
- **source_data** (*StripeJSONField*) The data corresponding to the source type.
- customer (ForeignKey to Customer) Customer

classmethod api_list (api_key=", **kwargs)

Call the stripe API's list operation for this model.

Parameters api_key (*string*) – The api key to use for this request. Defualts to distripe settings.STRIPE SECRET KEY.

See Stripe documentation for accepted kwargs for each object.

Returns an iterator over all items in the query

api_retrieve (api_key=None)

Call the stripe API's retrieve operation for this model.

Parameters api_key (string) – The api key to use for this request. Defaults to settings.STRIPE_SECRET_KEY.

get_stripe_dashboard_url()

Get the stripe dashboard url for this object.

detach()

Detach the source from its customer.

str_parts()

Extend this to add information to the string representation of the object

Return type list of str

classmethod sync_from_stripe_data(data)

Syncs this object from the stripe data provided.

Parameters data (dict) - stripe object

1.17.9 Coupon

- djstripe_id(BigAutoField) Id
- **livemode** (StripeNullBooleanField) Null here indicates that the livemode status is unknown or was previously unrecorded. Otherwise, this field indicates whether this record comes from Stripe test mode or live mode operation.
- created (StripeDateTimeField) The datetime this object was created in stripe.
- **metadata** (StripeJSONField) A set of key/value pairs that you can attach to an object. It can be useful for storing additional information about an object in a structured format.
- **description** (StripeTextField) A description of this object.
- djstripe_created (DateTimeField) Djstripe created
- djstripe_updated (DateTimeField) Djstripe updated
- **stripe_id** (StripeIdField) Stripe id
- amount_off (StripeCurrencyField) Amount that will be taken off the subtotal of any invoices for this customer.
- currency (StripeCharField) Three-letter ISO currency code
- duration (StripeEnumField) Describes how long a customer who applies this coupon will get the discount.
- duration_in_months (StripePositiveIntegerField) If duration is repeating, the number of months the coupon applies.

- max_redemptions (StripePositiveIntegerField) Maximum number of times this coupon can be redeemed, in total, before it is no longer valid.
- percent_off (StripePositiveIntegerField) Percent off
- **redeem_by** (StripeDateTimeField) Date after which the coupon can no longer be redeemed. Max 5 years in the future.
- **times_redeemed** (StripePositiveIntegerField) Number of times this coupon has been applied to a customer.

```
classmethod api_list(api_key=", **kwargs)
```

Call the stripe API's list operation for this model.

Parameters api_key (*string*) – The api key to use for this request. Defualts to djstripe_settings.STRIPE_SECRET_KEY.

See Stripe documentation for accepted kwargs for each object.

Returns an iterator over all items in the query

```
api retrieve(api key=None)
```

Call the stripe API's retrieve operation for this model.

Parameters api_key (string) – The api key to use for this request. Defaults to settings.STRIPE SECRET KEY.

```
get_stripe_dashboard_url()
```

Get the stripe dashboard url for this object.

human readable amount

human_readable

```
str_parts()
```

Extend this to add information to the string representation of the object

Return type list of str

classmethod sync_from_stripe_data(data)

Syncs this object from the stripe data provided.

Parameters data (dict) – stripe object

1.17.10 Invoice

```
class djstripe.models.Invoice(*args, **kwargs)
```

Invoices are statements of what a customer owes for a particular billing period, including subscriptions, invoice items, and any automatic proration adjustments if necessary.

Once an invoice is created, payment is automatically attempted. Note that the payment, while automatic, does not happen exactly at the time of invoice creation. If you have configured webhooks, the invoice will wait until one hour after the last webhook is successfully sent (or the last webhook times out after failing).

Any customer credit on the account is applied before determining how much is due for that invoice (the amount that will be actually charged). If the amount due for the invoice is less than 50 cents (the minimum for a charge), we add the amount to the customer's running account balance to be added to the next invoice. If this amount is negative, it will act as a credit to offset the next invoice. Note that the customer account balance does not include unpaid invoices; it only includes balances that need to be taken into account when calculating the amount due for the next invoice. (Source: https://stripe.com/docs/api/python#invoices)

= Mapping the values of this field isn't currently on our roadmap. Please use the stripe dashboard to check the value of this field instead.

Fields not implemented:

- **object** Unnecessary. Just check the model name.
- · discount #
- lines Unnecessary. Check Subscription and InvoiceItems directly.
- webhooks delivered at #

Attention: Stripe API_VERSION: model fields audited to 2017-06-05 - @jleclanche

- djstripe_id (BigAutoField) Id
- **stripe_id** (StripeIdField) Stripe id
- **livemode** (*StripeNullBooleanField*) Null here indicates that the livemode status is unknown or was previously unrecorded. Otherwise, this field indicates whether this record comes from Stripe test mode or live mode operation.
- **created** (StripeDateTimeField) The datetime this object was created in stripe.
- metadata (StripeJSONField) A set of key/value pairs that you can attach to an object. It can be useful for storing additional information about an object in a structured format.
- **description** (StripeTextField) A description of this object.
- djstripe_created (DateTimeField) Djstripe created
- djstripe_updated (DateTimeField) Djstripe updated
- amount_due (StripeCurrencyField) Final amount due at this time for this invoice. If the invoice's total is smaller than the minimum charge amount, for example, or if there is account credit that can be applied to the invoice, the amount_due may be 0. If there is a positive starting_balance for the invoice (the customer owes money), the amount_due will also take that into account. The charge that gets generated for the invoice will be for the amount specified in amount_due.
- amount_paid (StripeCurrencyField) The amount, in cents, that was paid.
- amount_remaining (StripeCurrencyField) The amount, in cents, that was paid.
- application_fee (StripeCurrencyField) The fee in cents that will be applied to the invoice and transferred to the application owner's Stripe account when the invoice is paid.
- attempt_count (StripeIntegerField) Number of payment attempts made for this invoice, from the perspective of the payment retry schedule. Any payment attempt counts as the first attempt, and subsequently only automatic retries increment the attempt count. In other words, manual payment attempts after the first attempt do not affect the retry schedule.
- attempted (StripeBooleanField) Whether or not an attempt has been made to pay the invoice. An invoice is not attempted until 1 hour after the invoice.created webhook, for example, so you might not want to display that invoice as unpaid to your users.

- **billing** (StripeEnumField) When charging automatically, Stripe will attempt to pay this invoiceusing the default source attached to the customer. When sending an invoice, Stripe will email this invoice to the customer with payment instructions.
- charge (OneToOneField to Charge) The latest charge generated for this invoice, if any.
- **closed** (StripeBooleanField) Whether or not the invoice is still trying to collect payment. An invoice is closed if it's either paid or it has been marked closed. A closed invoice will no longer attempt to collect payment.
- **currency** (StripeCharField) Three-letter ISO currency code.
- **customer** (ForeignKey to *Customer*) The customer associated with this invoice.
- date (StripeDateTimeField) The date on the invoice.
- **due_date** (StripeDateTimeField) The date on which payment for this invoice is due. This value will be null for invoices where billing=charge_automatically.
- ending_balance (StripeIntegerField) Ending customer balance after attempting to pay invoice. If the invoice has not been attempted yet, this will be null.
- **forgiven** (StripeBooleanField) Whether or not the invoice has been forgiven. Forgiving an invoice instructs us to update the subscription status as if the invoice were successfully paid. Once an invoice has been forgiven, it cannot be unforgiven or reopened.
- hosted_invoice_url (StripeCharField) The URL for the hosted invoice page, which allows customers to view and pay an invoice. If the invoice has not been frozen yet, this will be null.
- **invoice_pdf** (StripeCharField) The link to download the PDF for the invoice. If the invoice has not been frozen yet, this will be null.
- next_payment_attempt (StripeDateTimeField) The time at which payment will next be attempted.
- **number** (StripeCharField) A unique, identifying string that appears on emails sent to the customer for this invoice. This starts with the customer's unique invoice_prefix if it is specified.
- paid (StripeBooleanField) The time at which payment will next be attempted.
- **period_end** (StripeDateTimeField) End of the usage period during which invoice items were added to this invoice.
- **period_start** (StripeDateTimeField) Start of the usage period during which invoice items were added to this invoice.
- receipt_number (StripeCharField) This is the transaction number that appears on email receipts sent for this invoice.
- **starting_balance** (StripeIntegerField) Starting customer balance before attempting to pay invoice. If the invoice has not been attempted yet, this will be the current customer balance.
- **statement_descriptor** (StripeCharField) An arbitrary string to be displayed on your customer's credit card statement. The statement description may not include <>" characters, and will appear on your customer's statement in capital letters. Non-ASCII characters are automatically stripped. While most banks display this information consistently, some may display it incorrectly or not at all.
- **subscription** (ForeignKey to *Subscription*) The subscription that this invoice was prepared for, if any.

- **subscription_proration_date** (StripeDateTimeField) Only set for upcoming invoices that preview prorations. The time used to calculate prorations.
- **subtotal** (*StripeCurrencyField*) Only set for upcoming invoices that preview prorations. The time used to calculate prorations.
- tax (StripeCurrencyField) The amount of tax included in the total, calculated from tax_percent and the subtotal. If no tax_percent is defined, this value will be null.
- tax_percent (StripePercentField) This percentage of the subtotal has been added to the total amount of the invoice, including invoice line items and discounts. This field is inherited from the subscription's tax_percent field, but can be changed before the invoice is paid. This field defaults to null.
- total (StripeCurrencyField) Total after discount.
- webhooks_delivered_at (StripeDateTimeField) The time at which webhooks for this invoice were successfully delivered (if the invoice had no webhooks to deliver, this will match date). Invoice payment is delayed until webhooks are delivered, or until all webhook delivery attempts have been exhausted.

```
classmethod api_list(api_key=", **kwargs)
```

Call the stripe API's list operation for this model.

Parameters api_key (string) – The api key to use for this request. Defualts to djstripe_settings.STRIPE_SECRET_KEY.

See Stripe documentation for accepted kwargs for each object.

Returns an iterator over all items in the query

```
api_retrieve (api_key=None)
```

Call the stripe API's retrieve operation for this model.

Parameters api_key (string) – The api key to use for this request. Defaults to settings.STRIPE_SECRET_KEY.

get_stripe_dashboard_url()

Get the stripe dashboard url for this object.

```
classmethod upcoming (api_key=", customer=None, coupon=None, subscription=None, subscription_plan=None, subscription_prorate=None, subscription_prorate=None, subscription_quantity=None, subscription_trial_end=None, **kwargs)
```

Gets the upcoming preview invoice (singular) for a customer.

At any time, you can preview the upcoming invoice for a customer. This will show you all the charges that are pending, including subscription renewal charges, invoice item charges, etc. It will also show you any discount that is applicable to the customer. (Source: https://stripe.com/docs/api#upcoming_invoice)

Important: Note that when you are viewing an upcoming invoice, you are simply viewing a preview.

- **customer** (Customer or string (customer ID)) The identifier of the customer whose upcoming invoice you'd like to retrieve.
- **coupon** (*str*) The code of the coupon to apply.

- **subscription** (Subscription or string (subscription ID)) The identifier of the subscription to retrieve an invoice for.
- **subscription_plan** (Plan or string (plan ID)) If set, the invoice returned will preview updating the subscription given to this plan, or creating a new subscription to this plan if no subscription is given.
- **subscription_prorate** (bool) If previewing an update to a subscription, this decides whether the preview will show the result of applying prorations or not.
- **subscription_proration_date** (*datetime*) If previewing an update to a subscription, and doing proration, subscription_proration_date forces the proration to be calculated as though the update was done at the specified time.
- **subscription_quantity** (*int*) If provided, the invoice returned will preview updating or creating a subscription with that quantity.
- **subscription_trial_end** (*datetime*) If provided, the invoice returned will preview updating or creating a subscription with that trial end.

Returns The upcoming preview invoice.

Return type *UpcomingInvoice*

retry()

Retry payment on this invoice if it isn't paid, closed, or forgiven.

status

Attempts to label this invoice with a status. Note that an invoice can be more than one of the choices. We just set a priority on which status appears.

plan

Gets the associated plan for this invoice.

In order to provide a consistent view of invoices, the plan object should be taken from the first invoice item that has one, rather than using the plan associated with the subscription.

Subscriptions (and their associated plan) are updated by the customer and represent what is current, but invoice items are immutable within the invoice and stay static/unchanged.

In other words, a plan retrieved from an invoice item will represent the plan as it was at the time an invoice was issued. The plan retrieved from the subscription will be the currently active plan.

Returns The associated plan for the invoice.

Return type djstripe.Plan

str parts()

Extend this to add information to the string representation of the object

Return type list of str

classmethod sync_from_stripe_data(data)

Syncs this object from the stripe data provided.

Parameters data (dict) - stripe object

1.17.11 UpcomingInvoice

class djstripe.models.UpcomingInvoice (djstripe_id, stripe_id, livemode, created, metadata, description, djstripe_created, djstripe_updated,
amount_due, amount_paid, amount_remaining, application_fee, attempt_count, attempted, billing,
charge, closed, currency, customer, date, due_date,
ending_balance, forgiven, hosted_invoice_url, invoice_pdf, next_payment_attempt, number, paid,
period_end, period_start, receipt_number, starting_balance, statement_descriptor, subscription, subscription_proration_date, subtotal, tax, tax_percent,
total, webhooks_delivered_at, invoice_ptr)

- djstripe_id (BigAutoField) Id
- **stripe_id** (StripeIdField) Stripe id
- **livemode** (StripeNullBooleanField) Null here indicates that the livemode status is unknown or was previously unrecorded. Otherwise, this field indicates whether this record comes from Stripe test mode or live mode operation.
- **created** (StripeDateTimeField) The datetime this object was created in stripe.
- metadata (StripeJSONField) A set of key/value pairs that you can attach to an
 object. It can be useful for storing additional information about an object in a structured
 format.
- **description** (StripeTextField) A description of this object.
- djstripe_created (DateTimeField) Djstripe created
- djstripe_updated (DateTimeField) Djstripe updated
- amount_due (StripeCurrencyField) Final amount due at this time for this invoice. If the invoice's total is smaller than the minimum charge amount, for example, or if there is account credit that can be applied to the invoice, the amount_due may be 0. If there is a positive starting_balance for the invoice (the customer owes money), the amount_due will also take that into account. The charge that gets generated for the invoice will be for the amount specified in amount_due.
- amount_paid (StripeCurrencyField) The amount, in cents, that was paid.
- amount_remaining (StripeCurrencyField) The amount, in cents, that was paid.
- application_fee (StripeCurrencyField) The fee in cents that will be applied to the invoice and transferred to the application owner's Stripe account when the invoice is paid.
- attempt_count (StripeIntegerField) Number of payment attempts made for this invoice, from the perspective of the payment retry schedule. Any payment attempt counts as the first attempt, and subsequently only automatic retries increment the attempt count. In other words, manual payment attempts after the first attempt do not affect the retry schedule.
- attempted (StripeBooleanField) Whether or not an attempt has been made to pay the invoice. An invoice is not attempted until 1 hour after the invoice.created webhook, for example, so you might not want to display that invoice as unpaid to your users.

- **billing** (StripeEnumField) When charging automatically, Stripe will attempt to pay this invoiceusing the default source attached to the customer. When sending an invoice, Stripe will email this invoice to the customer with payment instructions.
- **charge** (OneToOneField to *Charge*) The latest charge generated for this invoice, if any.
- **closed** (StripeBooleanField) Whether or not the invoice is still trying to collect payment. An invoice is closed if it's either paid or it has been marked closed. A closed invoice will no longer attempt to collect payment.
- **currency** (StripeCharField) Three-letter ISO currency code.
- **customer** (ForeignKey to *Customer*) The customer associated with this invoice.
- date (StripeDateTimeField) The date on the invoice.
- **due_date** (StripeDateTimeField) The date on which payment for this invoice is due. This value will be null for invoices where billing=charge_automatically.
- **ending_balance** (StripeIntegerField) Ending customer balance after attempting to pay invoice. If the invoice has not been attempted yet, this will be null.
- **forgiven** (StripeBooleanField) Whether or not the invoice has been forgiven. Forgiving an invoice instructs us to update the subscription status as if the invoice were successfully paid. Once an invoice has been forgiven, it cannot be unforgiven or reopened.
- hosted_invoice_url (StripeCharField) The URL for the hosted invoice page, which allows customers to view and pay an invoice. If the invoice has not been frozen yet, this will be null.
- **invoice_pdf** (StripeCharField) The link to download the PDF for the invoice. If the invoice has not been frozen yet, this will be null.
- next_payment_attempt (StripeDateTimeField) The time at which payment will next be attempted.
- **number** (StripeCharField) A unique, identifying string that appears on emails sent to the customer for this invoice. This starts with the customer's unique invoice_prefix if it is specified.
- paid (StripeBooleanField) The time at which payment will next be attempted.
- **period_end** (StripeDateTimeField) End of the usage period during which invoice items were added to this invoice.
- **period_start** (StripeDateTimeField) Start of the usage period during which invoice items were added to this invoice.
- receipt_number (StripeCharField) This is the transaction number that appears on email receipts sent for this invoice.
- **starting_balance** (StripeIntegerField) Starting customer balance before attempting to pay invoice. If the invoice has not been attempted yet, this will be the current customer balance.
- **statement_descriptor** (StripeCharField) An arbitrary string to be displayed on your customer's credit card statement. The statement description may not include <>" characters, and will appear on your customer's statement in capital letters. Non-ASCII characters are automatically stripped. While most banks display this information consistently, some may display it incorrectly or not at all.
- **subscription** (ForeignKey to *Subscription*) The subscription that this invoice was prepared for, if any.

- **subscription_proration_date** (StripeDateTimeField) Only set for upcoming invoices that preview prorations. The time used to calculate prorations.
- **subtotal** (StripeCurrencyField) Only set for upcoming invoices that preview prorations. The time used to calculate prorations.
- tax (StripeCurrencyField) The amount of tax included in the total, calculated from tax_percent and the subtotal. If no tax_percent is defined, this value will be null.
- tax_percent (StripePercentField) This percentage of the subtotal has been added to the total amount of the invoice, including invoice line items and discounts. This field is inherited from the subscription's tax_percent field, but can be changed before the invoice is paid. This field defaults to null.
- total (StripeCurrencyField) Total after discount.
- webhooks_delivered_at (StripeDateTimeField) The time at which webhooks for this invoice were successfully delivered (if the invoice had no webhooks to deliver, this will match date). Invoice payment is delayed until webhooks are delivered, or until all webhook delivery attempts have been exhausted.
- invoice_ptr (OneToOneField to Invoice) Invoice ptr

classmethod api_list(api_key=", **kwargs)

Call the stripe API's list operation for this model.

Parameters api_key (string) - The api key to use for this request. Defualts to distripe_settings.STRIPE_SECRET_KEY.

See Stripe documentation for accepted kwargs for each object.

Returns an iterator over all items in the query

```
api retrieve(api key=None)
```

Call the stripe API's retrieve operation for this model.

Parameters api_key (string) - The api key to use for this request. Defaults to settings.STRIPE_SECRET_KEY.

get_stripe_dashboard_url()

Get the stripe dashboard url for this object.

invoiceitems

Gets the invoice items associated with this upcoming invoice.

This differs from normal (non-upcoming) invoices, in that upcoming invoices are in-memory and do not persist to the database. Therefore, all of the data comes from the Stripe API itself.

Instead of returning a normal queryset for the invoiceitems, this will return a mock of a queryset, but with the data fetched from Stripe - It will act like a normal queryset, but mutation will silently fail.

str_parts()

Extend this to add information to the string representation of the object

Return type list of str

classmethod sync_from_stripe_data(data)

Syncs this object from the stripe data provided.

Parameters data (dict) – stripe object

1.17.12 InvoiceItem

class djstripe.models.InvoiceItem(*args, **kwargs)

Sometimes you want to add a charge or credit to a customer but only actually charge the customer's card at the end of a regular billing cycle. This is useful for combining several charges to minimize per-transaction fees or having Stripe tabulate your usage-based billing totals. (Source: https://stripe.com/docs/api/python#invoiceitems)

= Mapping the values of this field isn't currently on our roadmap. Please use the stripe dashboard to check the value of this field instead.

Fields not implemented:

• **object** - Unnecessary. Just check the model name.

Attention: Stripe API_VERSION: model fields audited to 2017-06-05 - @jleclanche

Parameters

- djstripe_id(BigAutoField) Id
- **stripe_id** (StripeIdField) Stripe id
- **livemode** (StripeNullBooleanField) Null here indicates that the livemode status is unknown or was previously unrecorded. Otherwise, this field indicates whether this record comes from Stripe test mode or live mode operation.
- created (StripeDateTimeField) The datetime this object was created in stripe.
- metadata (StripeJSONField) A set of key/value pairs that you can attach to an object. It can be useful for storing additional information about an object in a structured format.
- **description** (StripeTextField) A description of this object.
- djstripe_created (DateTimeField) Djstripe created
- djstripe_updated (DateTimeField) Djstripe updated
- amount (StripeCurrencyField) Amount invoiced.
- **currency** (StripeCharField) Three-letter ISO currency code.
- **customer** (ForeignKey to *Customer*) The customer associated with this invoiceitem.
- date (StripeDateTimeField) The date on the invoiceitem.
- **discountable** (StripeBooleanField) If True, discounts will apply to this invoice item. Always False for prorations.
- invoice (ForeignKey to Invoice) The invoice to which this invoiceitem is attached.
- **period** (StripeJSONField) Period
- period_end (StripeDateTimeField) Might be the date when this invoiceitem's invoice was sent.
- **period_start** (StripeDateTimeField) Might be the date when this invoiceitem was added to the invoice
- plan (ForeignKey to Plan) If the invoice item is a proration, the plan of the subscription for which the proration was computed.

- **proration** (*StripeBooleanField*) Whether or not the invoice item was created automatically as a proration adjustment when the customer switched plans.
- **quantity** (StripeIntegerField) If the invoice item is a proration, the quantity of the subscription for which the proration was computed.
- **subscription** (ForeignKey to *Subscription*) The subscription that this invoice item has been created for, if any.

classmethod api_list(api_key=", **kwargs)

Call the stripe API's list operation for this model.

Parameters api_key (*string*) – The api key to use for this request. Defualts to djstripe_settings.STRIPE_SECRET_KEY.

See Stripe documentation for accepted kwargs for each object.

Returns an iterator over all items in the query

```
api_retrieve (api_key=None)
```

Call the stripe API's retrieve operation for this model.

Parameters api_key (string) – The api key to use for this request. Defaults to settings.STRIPE_SECRET_KEY.

get_stripe_dashboard_url()

Get the stripe dashboard url for this object.

str_parts()

Extend this to add information to the string representation of the object

Return type list of str

classmethod sync_from_stripe_data(data)

Syncs this object from the stripe data provided.

Parameters data (dict) - stripe object

1.17.13 Plan

```
class djstripe.models.Plan(*args, **kwargs)
```

A subscription plan contains the pricing information for different products and feature levels on your site. (Source: https://stripe.com/docs/api/python#plans)

= Mapping the values of this field isn't currently on our roadmap. Please use the stripe dashboard to check the value of this field instead.

Fields not implemented:

• **object** - Unnecessary. Just check the model name.

Attention: Stripe API_VERSION: model fields and methods audited to 2016-03-07 - @kavdev

- djstripe_id(BigAutoField) Id
- stripe_id (StripeIdField) Stripe id

- **livemode** (StripeNullBooleanField) Null here indicates that the livemode status is unknown or was previously unrecorded. Otherwise, this field indicates whether this record comes from Stripe test mode or live mode operation.
- **created** (StripeDateTimeField) The datetime this object was created in stripe.
- **metadata** (StripeJSONField) A set of key/value pairs that you can attach to an object. It can be useful for storing additional information about an object in a structured format.
- **description** (StripeTextField) A description of this object.
- djstripe_created (DateTimeField) Djstripe created
- djstripe_updated (DateTimeField) Djstripe updated
- aggregate_usage (StripeEnumField) Specifies a usage aggregation strategy for plans of usage_type=metered. Allowed values are *sum* for summing up all usage during a period, *last_during_period* for picking the last usage record reported within a period, *last_ever* for picking the last usage record ever (across period bounds) or max which picks the usage record with the maximum reported usage during a period. Defaults to *sum*.
- amount (StripeCurrencyField) Amount to be charged on the interval specified.
- billing_scheme (StripeEnumField) Describes how to compute the price per period. Either per_unit or tiered. per_unit indicates that the fixed amount (specified in amount) will be charged per unit in quantity (for plans with usage_type=licensed), or per unit of total usage (for plans with usage_type=metered). tiered indicates that the unit pricing will be computed using a tiering strategy as defined using the tiers and tiers_mode attributes.
- currency (StripeCharField) Three-letter ISO currency code
- interval (StripeEnumField) The frequency with which a subscription should be billed.
- interval_count (StripeIntegerField) The number of intervals (specified in the interval property) between each subscription billing.
- nickname (StripeCharField) A brief description of the plan, hidden from customers.
- product (ForeignKey to Product) The product whose pricing this plan determines.
- **tiers** (*StripeJSONField*) Each element represents a pricing tier. This parameter requires *billing_scheme* to be set to *tiered*.
- **tiers_mode** (StripeEnumField) Defines if the tiering price should be graduated or volume based. In volume-based tiering, the maximum quantity within a period determines the per unit price, in graduated tiering pricing can successively change as the quantity grows.
- **transform_usage** (StripeJSONField) Apply a transformation to the reported usage or set quantity before computing the billed price. Cannot be combined with *tiers*.
- **trial_period_days** (StripeIntegerField) Number of trial period days granted when subscribing a customer to this plan. Null if the plan has no trial period.
- usage_type (StripeEnumField) Configures how the quantity per period should be determined, can be either metered or licensed. licensed will automatically bill the quantity set for a plan when adding it to a subscription, metered will aggregate the total usage based on usage records. Defaults to licensed.
- name (StripeTextField) Name of the plan, to be displayed on invoices and in the
 web interface.

• **statement_descriptor** (StripeCharField) – An arbitrary string to be displayed on your customer's credit card statement. The statement description may not include <>" characters, and will appear on your customer's statement in capital letters. Non-ASCII characters are automatically stripped. While most banks display this information consistently, some may display it incorrectly or not at all.

```
classmethod api_list(api_key=", **kwargs)
```

Call the stripe API's list operation for this model.

Parameters api_key (*string*) – The api key to use for this request. Defualts to djstripe_settings.STRIPE_SECRET_KEY.

See Stripe documentation for accepted kwargs for each object.

Returns an iterator over all items in the query

```
api_retrieve (api_key=None)
```

Call the stripe API's retrieve operation for this model.

Parameters api_key (string) – The api key to use for this request. Defaults to settings.STRIPE SECRET KEY.

```
get_stripe_dashboard_url()
```

Get the stripe dashboard url for this object.

```
classmethod get_or_create(**kwargs)
```

Get or create a Plan.

amount_in_cents

human_readable_price

str_parts()

Extend this to add information to the string representation of the object

Return type list of str

```
classmethod sync_from_stripe_data(data)
```

Syncs this object from the stripe data provided.

Parameters data (dict) – stripe object

1.17.14 Subscription

```
class djstripe.models.Subscription(*args, **kwargs)
```

Subscriptions allow you to charge a customer's card on a recurring basis. A subscription ties a customer to a particular plan you've created.

A subscription still in its trial period is trialing and moves to active when the trial period is over. When payment to renew the subscription fails, the subscription becomes past_due. After Stripe has exhausted all payment retry attempts, the subscription ends up with a status of either canceled or unpaid depending on your retry settings. Note that when a subscription has a status of unpaid, no subsequent invoices will be attempted (invoices will be created, but then immediately automatically closed. Additionally, updating customer card details will not lead to Stripe retrying the latest invoice.). After receiving updated card details from a customer, you may choose to reopen and pay their closed invoices. (Source: https://stripe.com/docs/api/python# subscriptions)

= Mapping the values of this field isn't currently on our roadmap. Please use the stripe dashboard to check the value of this field instead.

Fields not implemented:

- **object** Unnecessary. Just check the model name.
- discount #

Attention: Stripe API VERSION: model fields and methods audited to 2016-03-07 - @kavdev

Parameters

- djstripe_id (BigAutoField) Id
- stripe_id (StripeIdField) Stripe id
- **livemode** (StripeNullBooleanField) Null here indicates that the livemode status is unknown or was previously unrecorded. Otherwise, this field indicates whether this record comes from Stripe test mode or live mode operation.
- created (StripeDateTimeField) The datetime this object was created in stripe.
- **metadata** (StripeJSONField) A set of key/value pairs that you can attach to an object. It can be useful for storing additional information about an object in a structured format.
- **description** (StripeTextField) A description of this object.
- djstripe_created (DateTimeField) Djstripe created
- djstripe updated (DateTimeField) Djstripe updated
- application_fee_percent (StripePercentField) A positive decimal that represents the fee percentage of the subscription invoice amount that will be transferred to the application owner's Stripe account each billing period.
- **billing** (StripeEnumField) Either charge_automatically, or send_invoice. When charging automatically, Stripe will attempt to pay this subscription at the end of the cycle using the default source attached to the customer. When sending an invoice, Stripe will email your customer an invoice with payment instructions.
- billing_cycle_anchor (StripeDateTimeField) Determines the date of the first full invoice, and, for plans with month or year intervals, the day of the month for subsequent invoices.
- cancel_at_period_end (StripeBooleanField) If the subscription has been canceled with the at_period_end flag set to true, cancel_at_period_end on the subscription will be true. You can use this attribute to determine whether a subscription that has a status of active is scheduled to be canceled at the end of the current period.
- canceled_at (StripeDateTimeField) If the subscription has been canceled, the date of that cancellation. If the subscription was canceled with cancel_at_period_end, canceled_at will still reflect the date of the initial cancellation request, not the end of the subscription period when the subscription is automatically moved to a canceled state.
- **current_period_end** (StripeDateTimeField) End of the current period for which the subscription has been invoiced. At the end of this period, a new invoice will be created.
- **current_period_start** (StripeDateTimeField) Start of the current period for which the subscription has been invoiced.
- **customer** (ForeignKey to Customer) The customer associated with this subscription.

- days_until_due (StripeIntegerField) Number of days a customer has to pay invoices generated by this subscription. This value will be *null* for subscriptions where billing=charge_automatically.
- **ended_at** (StripeDateTimeField) If the subscription has ended (either because it was canceled or because the customer was switched to a subscription to a new plan), the date the subscription ended.
- plan (ForeignKey to Plan) The plan associated with this subscription.
- quantity (StripeIntegerField) The quantity applied to this subscription.
- **start** (StripeDateTimeField) Date the subscription started.
- **status** (StripeEnumField) The status of this subscription.
- tax_percent (StripePercentField) A positive decimal (with at most two decimal places) between 1 and 100. This represents the percentage of the subscription invoice subtotal that will be calculated and added as tax to the final amount each billing period.
- trial_end (StripeDateTimeField) If the subscription has a trial, the end of that trial
- trial_start (StripeDateTimeField) If the subscription has a trial, the beginning of that trial.

classmethod api_list(api_key=", **kwargs)

Call the stripe API's list operation for this model.

Parameters api_key (string) - The api key to use for this request. Defualts to djstripe_settings.STRIPE_SECRET_KEY.

See Stripe documentation for accepted kwargs for each object.

Returns an iterator over all items in the query

api_retrieve (api_key=None)

Call the stripe API's retrieve operation for this model.

Parameters api_key (*string*) – The api key to use for this request. Defaults to settings.STRIPE_SECRET_KEY.

get_stripe_dashboard_url()

Get the stripe dashboard url for this object.

update (plan=None, application_fee_percent=None, coupon=None, prorate=False, proration_date=None, metadata=None, quantity=None, tax_percent=None, trial_end=None) See Customer.subscribe()

- plan (Plan or string (plan ID)) The plan to which to subscribe the customer.
- prorate (boolean) Whether or not to prorate when switching plans. Default is True.
- **proration_date** (datetime) If set, the proration will be calculated as though the subscription was updated at the given time. This can be used to apply exactly the same proration that was previewed with upcoming invoice endpoint. It can also be used to implement custom proration logic, such as prorating by day instead of by second, by providing the time that you wish to use for proration calculations.

Note: The default value for prorate is the DJSTRIPE_PRORATION_POLICY setting.

Important: Updating a subscription by changing the plan or quantity creates a new Subscription in Stripe (and dj-stripe).

extend(delta)

Extends this subscription by the provided delta.

Parameters delta (timedelta) – The timedelta by which to extend this subscription.

cancel(at period end=True)

Cancels this subscription. If you set the at_period_end parameter to true, the subscription will remain active until the end of the period, at which point it will be canceled and not renewed. By default, the subscription is terminated immediately. In either case, the customer will not be charged again for the subscription. Note, however, that any pending invoice items that you've created will still be charged for at the end of the period unless manually deleted. If you've set the subscription to cancel at period end, any pending prorations will also be left in place and collected at the end of the period, but if the subscription is set to cancel immediately, pending prorations will be removed.

By default, all unpaid invoices for the customer will be closed upon subscription cancellation. We do this in order to prevent unexpected payment retries once the customer has canceled a subscription. However, you can reopen the invoices manually after subscription cancellation to have us proceed with automatic retries, or you could even re-attempt payment yourself on all unpaid invoices before allowing the customer to cancel the subscription at all.

Parameters at_period_end (boolean) – A flag that if set to true will delay the cancellation of the subscription until the end of the current period. Default is False.

Important: If a subscription is cancelled during a trial period, the at_period_end flag will be overridden to False so that the trial ends immediately and the customer's card isn't charged.

reactivate()

Reactivates this subscription.

If a customer's subscription is canceled with at_period_end set to True and it has not yet reached the end of the billing period, it can be reactivated. Subscriptions canceled immediately cannot be reactivated. (Source: https://stripe.com/docs/subscriptions/canceling-pausing)

Warning: Reactivating a fully canceled Subscription will fail silently. Be sure to check the returned Subscription's status.

is_period_current()

Returns True if this subscription's period is current, false otherwise.

is_status_current()

Returns True if this subscription's status is current (active or trialing), false otherwise.

is_status_temporarily_current()

A status is temporarily current when the subscription is canceled with the at_period_end flag. The subscription is still active, but is technically canceled and we're just waiting for it to run out.

You could use this method to give customers limited service after they've canceled. For example, a video on demand service could only allow customers to download their libraries and do nothing else when their

subscription is temporarily current.

is_valid()

Returns True if this subscription's status and period are current, false otherwise.

str parts()

Extend this to add information to the string representation of the object

Return type list of str

classmethod sync_from_stripe_data(data)

Syncs this object from the stripe data provided.

Parameters data (dict) – stripe object

1.17.15 Account

class djstripe.models.Account (djstripe_id, stripe_id, livemode, created, metadata, descripdjstripe_created, djstripe_updated, tion, business_logo, business_name, business_primary_color, business_url, debit negative balances, charges enabled, country, decline_charge_on, default_currency, details_submitted, dispayout_schedule, payplay name, email, legal_entity, out_statement_descriptor, payouts_enabled, product_description, statement_descriptor, support_email, support_phone, support_url, timezone, type, tos_acceptance, verification)

- djstripe_id (BigAutoField) Id
- **stripe_id** (StripeIdField) Stripe id
- **livemode** (StripeNullBooleanField) Null here indicates that the livemode status is unknown or was previously unrecorded. Otherwise, this field indicates whether this record comes from Stripe test mode or live mode operation.
- **created** (StripeDateTimeField) The datetime this object was created in stripe.
- **metadata** (StripeJSONField) A set of key/value pairs that you can attach to an object. It can be useful for storing additional information about an object in a structured format.
- **description** (StripeTextField) A description of this object.
- djstripe_created (DateTimeField) Djstripe created
- djstripe_updated (DateTimeField) Djstripe updated
- business_logo (ForeignKey to FileUpload) Business logo
- business name (StripeCharField) The publicly visible name of the business
- business_primary_color (StripeCharField) A CSS hex color value representing the primary branding color for this account
- business_url (StripeCharField) The publicly visible website of the business
- **charges_enabled** (StripeBooleanField) Whether the account can create live charges
- country (StripeCharField) The country of the account

- **debit_negative_balances** (StripeNullBooleanField) A Boolean indicating if Stripe should try to reclaim negative balances from an attached bank account.
- **decline_charge_on** (StripeJSONField) Account-level settings to automatically decline certain types of charges regardless of the decision of the card issuer
- **default_currency** (StripeCharField) The currency this account has chosen to use as the default
- **details_submitted** (StripeBooleanField) Whether account details have been submitted. Standard accounts cannot receive payouts before this is true.
- **display_name** (StripeCharField) The display name for this account. This is used on the Stripe Dashboard to differentiate between accounts.
- email (StripeCharField) The primary user's email address.
- **legal_entity** (StripeJSONField) Information about the legal entity itself, including about the associated account representative
- payout_schedule (StripeJSONField) Details on when funds from charges are available, and when they are paid out to an external account.
- **payout_statement_descriptor** (StripeCharField) The text that appears on the bank account statement for payouts.
- payouts_enabled (StripeBooleanField) Whether Stripe can send payouts to this account
- **product_description** (StripeCharField) Internal-only description of the product sold or service provided by the business. It's used by Stripe for risk and underwriting purposes.
- **statement_descriptor** (*StripeCharField*) The default text that appears on credit card statements when a charge is made directly on the account
- **support_email** (StripeCharField) A publicly shareable support email address for the business
- **support_phone** (StripeCharField) A publicly shareable support phone number for the business
- **support_url** (StripeCharField) A publicly shareable URL that provides support for this account
- timezone (StripeCharField) The timezone used in the Stripe Dashboard for this account.
- **type** (StripeEnumField) The Stripe account type.
- tos_acceptance (StripeJSONField) Details on the acceptance of the Stripe Services Agreement
- **verification** (StripeJSONField) Information on the verification state of the account, including what information is needed and by when

classmethod api_list(api_key=", **kwargs)

Call the stripe API's list operation for this model.

Parameters api_key (*string*) – The api key to use for this request. Defualts to djstripe_settings.STRIPE_SECRET_KEY.

See Stripe documentation for accepted kwargs for each object.

Returns an iterator over all items in the query

```
api retrieve(api key=None)
```

Call the stripe API's retrieve operation for this model.

Parameters api_key (string) – The api key to use for this request. Defaults to settings.STRIPE_SECRET_KEY.

```
get_stripe_dashboard_url()
```

Get the stripe dashboard url for this object.

```
classmethod get_connected_account_from_token(access_token)
```

```
classmethod get_default_account()
```

```
str_parts()
```

Extend this to add information to the string representation of the object

Return type list of str

classmethod sync_from_stripe_data(data)

Syncs this object from the stripe data provided.

Parameters data (dict) – stripe object

1.17.16 Transfer

```
class djstripe.models.Transfer(*args, **kwargs)
```

When Stripe sends you money or you initiate a transfer to a bank account, debit card, or connected Stripe account, a transfer object will be created. (Source: https://stripe.com/docs/api/python#transfers)

= Mapping the values of this field isn't currently on our roadmap. Please use the stripe dashboard to check the value of this field instead.

Fields not implemented:

- **object** Unnecessary. Just check the model name.
- application_fee #
- balance_transaction #
- · reversals #

Attention: Stripe API_VERSION: model fields and methods audited to 2016-03-07 - @kavdev

- djstripe_id (BigAutoField) Id
- stripe_id (StripeIdField) Stripe id
- **livemode** (StripeNullBooleanField) Null here indicates that the livemode status is unknown or was previously unrecorded. Otherwise, this field indicates whether this record comes from Stripe test mode or live mode operation.
- **created** (StripeDateTimeField) The datetime this object was created in stripe.
- **metadata** (StripeJSONField) A set of key/value pairs that you can attach to an object. It can be useful for storing additional information about an object in a structured format.
- **description** (StripeTextField) A description of this object.

- djstripe_created (DateTimeField) Djstripe created
- djstripe_updated (DateTimeField) Djstripe updated
- amount (StripeCurrencyField) The amount transferred
- amount_reversed (StripeCurrencyField) The amount reversed (can be less than the amount attribute on the transfer if a partial reversal was issued).
- **currency** (StripeCharField) Three-letter ISO currency code.
- **destination** (StripeIdField) ID of the bank account, card, or Stripe account the transfer was sent to.
- **destination_payment** (StripeIdField) If the destination is a Stripe account, this will be the ID of the payment that the destination account received for the transfer.
- **reversed** (StripeBooleanField) Whether or not the transfer has been fully reversed. If the transfer is only partially reversed, this attribute will still be false.
- **source_transaction** (*StripeIdField*) ID of the charge (or other transaction) that was used to fund the transfer. If null, the transfer was funded from the available balance.
- **source_type** (StripeEnumField) The source balance from which this transfer came.
- **transfer_group** (StripeCharField) A string that identifies this transaction as part of a group.
- **date** (StripeDateTimeField) Date the transfer is scheduled to arrive in the bank. This doesn't factor in delays like weekends or bank holidays.
- $destination_type$ (StripeCharField) The type of the transfer destination.
- **failure_code** (StripeEnumField) Error code explaining reason for transfer failure if available. See https://stripe.com/docs/api/python#transfer_failures.
- **failure_message** (StripeTextField) Message to user further explaining reason for transfer failure if available.
- **statement_descriptor** (StripeCharField) An arbitrary string to be displayed on your customer's credit card statement. The statement description may not include <>" characters, and will appear on your customer's statement in capital letters. Non-ASCII characters are automatically stripped. While most banks display this information consistently, some may display it incorrectly or not at all.
- **status** (StripeEnumField) The current status of the transfer. A transfer will be pending until it is submitted to the bank, at which point it becomes in_transit. It will then change to paid if the transaction goes through. If it does not go through successfully, its status will change to failed or canceled.
- **fee** (StripeCurrencyField) Fee
- **fee_details** (StripeJSONField) Fee details

classmethod api_list(api_key=", **kwargs)

Call the stripe API's list operation for this model.

Parameters api_key (string) – The api key to use for this request. Defualts to djstripe_settings.STRIPE_SECRET_KEY.

See Stripe documentation for accepted kwargs for each object.

Returns an iterator over all items in the query

```
api retrieve(api key=None)
```

Call the stripe API's retrieve operation for this model.

Parameters api_key (string) – The api key to use for this request. Defaults to settings.STRIPE_SECRET_KEY.

get_stripe_dashboard_url()

Get the stripe dashboard url for this object.

str parts()

Extend this to add information to the string representation of the object

Return type list of str

classmethod sync_from_stripe_data(data)

Syncs this object from the stripe data provided.

Parameters data (dict) - stripe object

1.17.17 WebhookEventTrigger

```
class djstripe.models.WebhookEventTrigger(*args, **kwargs)
```

An instance of a request that reached the server endpoint for Stripe webhooks.

Webhook Events are initially **UNTRUSTED**, as it is possible for any web entity to post any data to our webhook url. Data posted may be valid Stripe information, garbage, or even malicious. The 'valid' flag in this model monitors this.

Parameters

- id (BigAutoField) Id
- remote_ip (GenericIPAddressField) IP address of the request client.
- headers (JSONField) Headers
- body (TextField) Body
- valid (BooleanField) Whether or not the webhook event has passed validation
- **processed** (BooleanField) Whether or not the webhook event has been successfully processed
- exception (CharField) Exception
- traceback (TextField) Traceback if an exception was thrown during processing
- event (ForeignKey to Event) Event object contained in the (valid) Webhook
- djstripe_version (CharField) The version of dj-stripe when the webhook was received
- created (DateTimeField) Created
- updated (DateTimeField) Updated

json_body

```
is_test_event
```

${\tt classmethod\ from_request}\,(\textit{request})$

Create, validate and process a WebhookEventTrigger given a Django request object.

The process is three-fold: 1. Create a WebhookEventTrigger object from a Django request. 2. Validate the WebhookEventTrigger as a Stripe event using the API. 3. If valid, process it into an Event object (and child resource).

1.18 Settings

1.18.1 STRIPE_API_VERSION (='2017-02-14')

The API version used to communicate with the Stripe API is configurable, and defaults to the latest version that has been tested as working. Using a value other than the default is allowed, as a string in the format of YYYY-MM-DD.

For example, you can specify '2017-01-27' to use that API version:

```
STRIPE_API_VERSION = '2017-01-27'
```

However you do so at your own risk, as using a value other than the default might result in incompatibilities between Stripe and this library, especially if Stripe has labelled the differences between API versions as "Major". Even small differences such as a new enumeration value might cause issues.

For this reason it is best to assume that only the default version is supported.

For more information on API versioning, see the stripe documentation.

1.18.2 DJSTRIPE_IDEMPOTENCY_KEY_CALLBACK (=djstripe.settings._get_idempotency_key)

A function which will return an idempotency key for a particular object_type and action pair. By default, this is set to a function which will create a djstripe. IdempotencyKey object and return its uuid. You may want to customize this if you want to give your idempotency keys a different lifecycle than they normally would get.

The function takes the following signature:

```
def get_idempotency_key(object_type: str, action: str, livemode: bool):
    return "<idempotency key>"
```

The function MUST return a string suitably random for the object_type/action pair, and usable in the Stripe Idempotency-Key HTTP header. For more information, see the stripe documentation.

1.18.3 DJSTRIPE PRORATION POLICY (=False)

By default, plans are not prorated in dj-stripe. Concretely, this is how this translates:

- 1. If a customer cancels their plan during a trial, the cancellation is effective right away.
- 2. If a customer cancels their plan outside of a trial, their subscription remains active until the subscription's period end, and they do not receive a refund.
- 3. If a customer switches from one plan to another, the new plan becomes effective right away, and the customer is billed for the new plan's amount.

Assigning True to DJSTRIPE_PRORATION_POLICY reverses the functioning of item 2 (plan cancellation) by making a cancellation effective right away and refunding the unused balance to the customer, and affects the functioning of item 3 (plan change) by prorating the previous customer's plan towards their new plan's amount.

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1.18.4 DJSTRIPE SUBSCRIPTION REQUIRED EXCEPTION URLS (=())

 $Used\ by\ {\tt djstripe.middleware.SubscriptionPaymentMiddleware}$

Rules:

- "(app_name)" means everything from this app is exempt
- "[namespace]" means everything with this name is exempt
- "namespace:name" means this namespaced URL is exempt
- "name" means this URL is exempt
- The entire distripe namespace is exempt
- If settings.DEBUG is True, then django-debug-toolbar is exempt

Example:

```
DJSTRIPE_SUBSCRIPTION_REQUIRED_EXCEPTION_URLS = (
    "(allauth)", # anything in the django-allauth URLConf
    "[blogs]", # Anything in the blogs namespace
    "products:detail", # A ProductDetail view you want shown to non-payers
    "home", # Site homepage
)
```

Note: Adding app_names to applications.

To make the (allauth) work, you may need to define an app_name in the include() function in the URLConf. For example:

```
# in urls.py
url(r'^accounts/', include('allauth.urls', app_name="allauth")),
```

1.18.5 DJSTRIPE_SUBSCRIBER_MODEL (=settings.AUTH_USER_MODEL)

If the AUTH_USER_MODEL doesn't represent the object your application's subscription holder, you may define a subscriber model to use here. It should be a string in the form of 'app.model'.

Rules:

- DJSTRIPE_SUBSCRIBER_MODEL must have an email field. If your existing model has no email field, add an email property that defines an email address to use.
- You must also implement DJSTRIPE_SUBSCRIBER_MODEL_REQUEST_CALLBACK.

Example Model:

1.18.6 DJSTRIPE_SUBSCRIBER_MODEL_MIGRATION_DEPENDENCY (="__first__")

If the model referenced in DJSTRIPE_SUBSCRIBER_MODEL is not created in the ___first__ migration of an app you can specify the migration name to depend on here. For example: "0003_here_the_subscriber_model_was_added"

1.18.7 DJSTRIPE SUBSCRIBER MODEL REQUEST CALLBACK (=None)

If you choose to use a custom subscriber model, you'll need a way to pull it from request. That's where this callback comes in. It must be a callable or importable string to a callable that takes a request object and returns an instance of DJSTRIPE SUBSCRIBER MODEL

Examples:

middleware.py

```
class DynamicOrganizationIDMiddleware(object):
    """ Adds the current organization's ID based on the subdomain."""

def process_request(self, request):
    subdomain = parse_subdomain(request.get_host())

try:
    organization = Organization.objects.get(subdomain=subdomain)
    except Organization.DoesNotExist:
        return TemplateResponse(request=request, template='404.html', status=404)
    else:
        organization_id = organization.id
```

settings.py

Note: This callback only becomes active when <code>DJSTRIPE_SUBSCRIBER_MODEL</code> is set.

1.18.8 DJSTRIPE USE NATIVE JSONFIELD (=False)

Setting this to True will make the various dj-stripe JSON fields use django.contrib.postgres.fields. JSONField instead of the jsonfield library (which internally uses text fields).

The native Django JSONField uses the postgres jsonb column type, which efficiently stores JSON and can be queried far more conveniently. Django also supports querying JSONField with the ORM.

Note: This is only supported on Postgres databases.

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Note: Migrating between native and non-native must be done manually.

1.18.9 DJSTRIPE WEBHOOK URL (=r"^webhook/\$")

This is where you can set *Stripe.com* to send webhook response. You can set this to what you want to prevent unnecessary hijinks from unfriendly people.

As this is embedded in the URLConf, this must be a resolvable regular expression.

1.18.10 DJSTRIPE_WEBHOOK_EVENT_CALLBACK (=None)

Webhook event callbacks allow an application to take control of what happens when an event from Stripe is received. It must be a callable or importable string to a callable that takes an event object.

One suggestion is to put the event onto a task queue (such as celery) for asynchronous processing.

Examples:

callbacks.py

```
def webhook_event_callback(event):
    """ Dispatches the event to celery for processing. """
    from . import tasks
    # Ansychronous hand-off to celery so that we can continue immediately
    tasks.process_webhook_event.s(event).apply_async()
```

tasks.py

```
from stripe.error import StripeError

@shared_task(bind=True)
def process_webhook_event(self, event):
    """ Processes events from Stripe asynchronously. """
    logger.info("Processing Stripe event: %s", str(event))
    try:
        event.process(raise_exception=True)
    except StripeError as exc:
        logger.error("Failed to process Stripe event: %s", str(event))
        raise self.retry(exc=exc, countdown=60) # retry after 60 seconds
```

settings.py

```
DJSTRIPE_WEBHOOK_EVENT_CALLBACK = 'callbacks.webhook_event_callback'
```

1.18.11 STRIPE_API_HOST (= unset)

If set, this sets the base API host for Stripe. You may want to set this to, for example, "http://localhost:12111" if you are running stripe-mock.

If this is set in production (DEBUG=False), a warning will be raised on manage.py check.

1.19 Utilities

Last Updated 2018-05-24

1.19.1 Subscriber Has Active Subscription Check

utils.subscriber_has_active_subscription(plan=None)

Helper function to check if a subscriber has an active subscription.

Throws improperlyConfigured if the subscriber is an instance of AUTH_USER_MODEL and get_user_model().is_anonymous == True.

Activate subscription rules (or):

· customer has active subscription

If the subscriber is an instance of AUTH_USER_MODEL, active subscription rules (or):

- · customer has active subscription
- · user.is_superuser
- · user.is_staff

Parameters

- **subscriber** (*dj-stripe subscriber*) The subscriber for which to check for an active subscription.
- plan (Plan or string (plan ID)) The plan for which to check for an active subscription. If plan is None and there exists only one subscription, this method will check if that subscription is active. Calling this method with no plan and multiple subscriptions will throw an exception.

1.19.2 Supported Currency Choice Generator

```
utils.get_supported_currency_choices()
```

Pull a stripe account's supported currencies and returns a choices tuple of those supported currencies.

Parameters api_key (str) - The api key associated with the account from which to pull data.

1.19.3 Clear Expired Idempotency Keys

```
utils.clear expired idempotency keys()
```

1.19.4 Convert Stripe Timestamp to Datetime

```
utils.convert_tstamp()
```

Convert a Stripe API timestamp response (unix epoch) to a native datetime.

Return type datetime

1.19.5 Friendly Currency Amount String

```
utils.get_friendly_currency_amount(currency)
```

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1.20 Contributing

Contributions are welcome, and they are greatly appreciated! Every little bit helps, and credit will always be given.

You can contribute in many ways:

1.20.1 Types of Contributions

Report Bugs

Report bugs at https://github.com/dj-stripe/dj-stripe/issues.

If you are reporting a bug, please include:

- The version of python and Django you're running
- Detailed steps to reproduce the bug.

Fix Bugs

Look through the GitHub issues for bugs. Anything tagged with "bug" is open to whoever wants to implement it.

Implement Features

Look through the GitHub issues for features. Anything tagged with "feature" is open to whoever wants to implement it.

Write Documentation

dj-stripe could always use more documentation, whether as part of the official dj-stripe docs, in docstrings, or even on the web in blog posts, articles, and such.

If you are adding to dj-stripe's documentation, you can see your changes by running tox -e docs. The documentation will be generated in the docs/directory, and you can open docs/_build/html/index.html in a web browser.

Submit Feedback

The best way to send feedback is to file an issue at https://github.com/dj-stripe/dj-stripe/issues.

If you are proposing a feature:

- Explain in detail how it would work.
- Keep the scope as narrow as possible, to make it easier to implement.
- Remember that this is a volunteer-driven project, and that contributions are welcome:)

1.20.2 New Modules

As with Django we're aiming for future compatibility with Python 3.x. Please ensure that any new modules use the following future import statement:

```
`from __future__ import absolute_import, division, print_function, unicode_literals `
```

1.20.3 Get Started!

Ready to contribute? Here's how to set up *dj-stripe* for local development.

- 1. Fork the *dj-stripe* repo on GitHub.
- 2. Clone your fork locally:

```
$ git clone git@github.com:your_name_here/dj-stripe.git
```

3. Assuming the tests are run against PostgreSQL:

```
$ createdb djstripe
```

4. Install your local copy into a virtualenv. Assuming you have virtualenvwrapper installed, this is how you set up your fork for local development:

```
$ mkvirtualenv dj-stripe
$ cd dj-stripe/
$ python setup.py develop
```

5. Create a branch for local development:

```
$ git checkout -b name-of-your-bugfix-or-feature
```

Now you can make your changes locally.

6. When you're done making changes, check that your changes pass the tests, including testing other Python versions with tox. runtests will output both command line and html coverage statistics and will warn you if your changes caused code coverage to drop. Note that if your system time is not in UTC, some tests will fail. If you want to ignore those tests, the –skip-utc command line option is available on runtests.py.:

```
$ pip install -r tests/requirements.txt
$ tox
```

7. If your changes altered the models you may need to generate Django migrations:

```
$ python makemigrations.py
```

8. Commit your changes and push your branch to GitHub:

```
$ git add .
$ git commit -m "Your detailed description of your changes."
$ git push origin name-of-your-bugfix-or-feature
```

- 9. Submit a pull request through the GitHub website.
- 10. Congratulations, you're now a dj-stripe contributor! Have some <3 from us.

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1.20.4 Pull Request Guidelines

Before you submit a pull request, check that it meets these guidelines:

- 1. The pull request should include tests.
- 2. The pull request must not drop code coverage below the current level.
- 3. If the pull request adds functionality, the docs should be updated. Put your new functionality into a function with a docstring.
- 4. If the pull request makes changes to a model, include Django migrations (Django 1.7+).
- 5. The pull request should work for Python 2.7, 3.4, 3.5 and 3.6. Check https://travis-ci.org/dj-stripe/dj-stripe/pull requests and make sure that the tests pass for all supported Python versions.

1.21 Credits

1.21.1 Development Lead

- Alexander Kavanaugh (@kavdev)
- Daniel Greenfeld <pydanny@gmail.com>
- Jerome Leclanche (@jleclanche)
- Lee Skillen (@lskillen)

1.21.2 Contributors

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- Matt Shaw (@unformatt)
- Chris Trengove (@ctrengove)
- Caleb Hattingh (@cjrh)
- Nicolas Delaby (@ticosax)
- Michaël Krens (@michi88)
- Yuri Prezument (@yprez)
- Raphael Deem (@r0fls)
- Irfan Ahmad (@erfaan)
- Slava Kyrachevsky (@scream4ik)
- Alec Brunelle (@aleccool213)
- James Hiew (@jameshiew)
- Dan Koch (@dmkoch)
- Denis Orehovsky (@apirobot)

1.22 History

1.22.1 1.1.0 (2018-06-11)

In dj-stripe 1.1.0, we made a *lot* of changes to models in order to bring the dj-stripe model state much closer to the upstream API objects. If you are a current user of dj-stripe, you will most likely have to make changes in order to upgrade. Please read the full changelog below. If you are having trouble upgrading, you may ask for help by filing an issue on GitHub.

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1.22.2 Upgrade notes

Migration reset

The next version of dj-stripe, **1.2.0**, will reset all the migrations to 0001_initial. Migrations are currently in an unmaintainable state.

What this means is you will not be able to upgrade directly to dj-stripe 1.2.0. You must go through 1.1.0 first, run "manage.py migrate djstripe", then upgrade to 1.2.0.

Python 2.7 end-of-life

dj-stripe 1.1.0 drops support for Django 1.10 and adds support for Django 2.0. Django 1.11+ and Python 2.7+ or 3.4+ are required.

Support for Python versions older than 3.5, and Django versions older than 2.0, will be dropped in dj-stripe 1.3.0.

1.22.3 Backwards-incompatible changes and deprecations

Removal of polymorphic models

The model architecture of dj-stripe has been simplified. Polymorphic models have been dropped and the old base StripeCustomer, StripeCharge, StripeInvoice, etc models have all been merged into the top-level Customer, Charge, Invoice, etc models.

Importing those legacy models from djstripe.stripe_objects will yield the new ones. This is deprecated and support for this will be dropped in dj-stripe 1.3.0.

Full support for Stripe Sources (Support for v3 stripe.js)

Stripe sources (src_XXXX) are objects that can arbitrarily reference any of the payment method types that Stripe supports. However, the legacy Card object (with object IDs like card_XXXX or cc_XXXX) is not a Source object, and cannot be turned into a Source object at this time. In order to support both Card and Source objects in ForeignKeys, a new model PaymentMethod has been devised. That model can resolve into a Card, a Source, or a BankAccount object.

- The "default_source" attribute on "Customer" now refers to a "PaymentMethod" object. You will need to call .resolve() on it to get the Card or Source in question.
- References to Customer.sources expecting a queryset of Card objects should be updated to Customer. legacy_cards.
- The legacy StripeSource name refers to the Card model. This will be removed in dj-stripe 1.3.0. Update your references to either Card or Source.
- enums.SourceType has been renamed to enums.LegacySourceType. enums.SourceType now refers to the actual Stripe Source types enum.

Core fields renamed

• The numeric id field has been renamed to djstripe_id. This avoids a clash with the upstream stripe id. Accessing .id is deprecated and **will reference the upstream stripe_id in dj-stripe 1.3.0

1.22.4 1.0.0 (2017-08-12)

It's finally here! We've made significant changes to the codebase and are now compliant with stripe API version **2017-06-05**.

I want to give a huge thanks to all of our contributors for their help in making this happen, especially Bill Huneke (@wahuneke) for his impressive design work and @jleclanche for really pushing this release along.

I also want to welcome onboard two more maintainers, @jleclanche and @lskillen. They've stepped up and have graciously dedicated their resources to making dj-stripe such an amazing package.

Almost all methods now mimic the parameters of those same methods in the stripe API. Note that some methods do not have some parameters implemented. This is intentional. That being said, expect all method signatures to be different than those in previous versions of dj-stripe.

Finally, please note that there is still a bit of work ahead of us. Not everything in the Stripe API is currently supported by dj-stripe – we're working on it. That said, v1.0.0 has been thoroughly tested and is verified stable in production applications.

- Multiple subscription support (finally)
- Multiple sources support (currently limited to Cards)
- Idempotency support (See #455, #460 for discussion big thanks to @jleclanche)
- Full model documentation
- Objects that come through webhooks are now tied to the API version set in dj-stripe. No more errors if dj-stripe falls behind the newest stripe API version.
- Any create/update action on an object automatically syncs the object.
- Concurrent LIVE and TEST mode support (Thanks to @jleclanche). Note that you'll run into issues if livemode isn't set on your existing customer objects.
- All choices are now enum-based (Thanks @jleclanche, See #520). Access them from the new djstripe. enums module. The ability to check against model property based choices will be deprecated in 1.1
- Support for the Coupon model, and coupons on Customer objects.
- Support for the Payout/Transfer split from api version 2017-04-06.
- **Documentation**. Our original documentation was not very helpful, but it covered the important bits. It will be very out of date after this update and will need to be rewritten. If you feel like helping, we could use all the help we can get to get this pushed out asap.
- Master sync re-write. This sounds scary, but really isn't. The current management methods run sync methods on Customer that aren't very helpful and are due for removal. My plan is to write something that first updates local data (via api_retrieve and sync_from_stripe_data) and then pulls all objects from Stripe and populates the local database with any records that don't already exist there.

You might be wondering, "Why are they releasing this if there are only a few things left?" Well, that thinking turned this into a two year release... Trust me, this is a good thing.

- **Idempotency**. #460 introduces idempotency keys and implements idempotency for Customer. get or create(). Idempotency will be enabled for all calls that need it.
- **Improved Admin Interface**. This is almost complete. See #451 and #452.
- **Drop non-trivial endpoint views**. We're dropping everything except the webhook endpoint and the subscription cancel endpoint. See #428.
- Drop support for sending receipts. Stripe now handles this for you. See #478.

- **Drop support for plans as settings**, including custom plan hierarchy (if you want this, write something custom) and the dynamic trial callback. We've decided to gut having plans as settings. Stripe should be your source of truth; create your plans there and sync them down manually. If you need to create plans locally for testing, etc., simply use the ORM to create Plan models. The sync rewrite will make this drop less annoying.
- **Orphan Customer Sync**. We will now sync Customer objects from Stripe even if they aren't linked to local subscriber objects. You can link up subscribers to those Customers manually.
- Concurrent Live and Test Mode. dj-stripe now supports test-mode and live-mode Customer objects concurrently. As a result, the User.customer One-to-One reverse-relationship is now the User.djstripe_customers RelatedManager. (Thanks @jleclanche) #440. You'll run into some dj-stripe check issues if you don't update your KEY settings accordingly. Check our GitHub issue tracker for help on this.
- The PLAN_CHOICES, PLAN_LIST, and PAYMENT_PLANS objects are removed. Use Plan.objects.all() instead.
- The plan_from_stripe_id function is removed. Use Plan.objects.get(stripe_id=)
- sync_plans no longer takes an api_key
- sync methods no longer take a cu parameter
- All sync methods are now private. We're in the process of building a better syncing mechanism.
- dj-stripe decorators now take a plan argument. If you're passing in a custom test function to subscriber_passes_pay_test, be sure to account for this new argument.
- The context provided by dj-stripe's mixins has changed. PaymentsContextMixin now provides STRIPE_PUBLIC_KEY and plans (changed to Plan.objects.all()). SubscriptionMixin now provides customer and is_plans_plural.
- We've removed the SubscriptionPaymentRequiredMixin. Use @method_decorator("dispatch", subscription_payment_required) instead.
- dj-stripe middleware doesn't support multiple subscriptions.
- Local custom signals are deprecated in favor of Stripe webhooks:
- cancelled -> WEBHOOK_SIGNALS["customer.subscription.deleted"]
- card_changed -> WEBHOOK_SIGNALS["customer.source.updated"]
- subscription_made -> WEBHOOK_SIGNALS["customer.subscription.created"]
- The Event Handlers designed by @wahuneke are the new way to handle events that come through webhooks. Definitely take a look at event_handlers.py and webhooks.py.
- SubscriptionUpdateFailure and SubscriptionCancellationFailure exceptions are removed. There should no longer be a case where they would have been useful. Catch native stripe errors in their place instead.

CHARGE

- Charge.charge_created -> Charge.stripe_timestamp
- Charge.card_last_4 and Charge.card_kind are removed. Use Charge.source.last4 and Charge.source.brand (if the source is a Card)
- Charge.invoice is no longer a foreign key to the Invoice model. Invoice now has a OneToOne relationship with Charge. (Charge.invoice will still work, but will no longer be represented in the database).

CUSTOMER

- dj-stripe now supports test mode and live mode Customer objects concurrently (See #440). As a result, the <subscriber_model>.customer OneToOne reverse relationship is no longer a thing. You should now instead add a customer property to your subscriber model that checks whether you're in live or test mode (see djstripe.settings.STRIPE_LIVE_MODE as an example) and grabs the customer from <subscriber_model>.djstripe_customers with a simple livemode= filter.
- Customer no longer has a current_subscription property. We've added a subscription property that should suit your needs.
- With the advent of multiple subscriptions, the behavior of Customer.subscribe() has changed. Before, calling subscribe() when a customer was already subscribed to a plan would switch the customer to the new plan with an option to prorate. Now calling subscribe() simply subscribes that customer to a new plan in addition to it's current subscription. Use Subscription.update() to change a subscription's plan instead.
- Customer.cancel_subscription() is removed. Use Subscription.cancel() instead.
- The Customer.update_plan_quantity() method is removed. Use Subscription.update() instead.
- CustomerManager is now SubscriptionManager and works on the Subscription model instead of the Customer model.
- Customer.has_valid_card() is now Customer.has_valid_source().
- Customer.update_card() now takes an id. If the id is not supplied, the default source is updated.
- Customer.stripe_customer property is removed. Use Customer.api_retrieve() instead.
- The at_period_end parameter of Customer.cancel_subscription() now actually follows the DJSTRIPE PRORATION POLICY setting.
- Customer.card_fingerprint, Customer.card_last_4, Customer.card_kind, Customer.card_exp_month, Customer.card_exp_year are all removed. Check Customer. default_source (if it's a Card) or one of the sources in Customer.sources (again, if it's a Card) instead.
- The invoice_id parameter of Customer.add_invoice_item is now named invoice and can be either an Invoice object or the stripe_id of an Invoice.

EVENT

- Event.kind -> Event.type
- Removed Event.validated_message. Just check if the event is valid no need to double check (we do that for you)

TRANSFER

- Removed Transfer.update status()
- Removed Transfer.event
- TransferChargeFee is removed. It hasn't been used in a while due to a broken API version. Use Transfer.fee_details instead.

• Any fields that were in Transfer.summary no longer exist and are therefore deprecated (unused but not removed from the database). Because of this, TransferManager now only aggregates total sum

INVOICE

- Invoice.attempts -> Invoice.attempt count
- InvoiceItems are no longer created when Invoices are synced. You must now sync InvoiceItems directly.

INVOICEITEM

• Removed InvoiceItem.line_type

PLAN

- Plan no longer has a stripe_plan property. Use api_retrieve() instead.
- Plan.currency no longer uses choices. Use the get_supported_currency_choices() utility and create your own custom choices list instead.
- Plan interval choices are now in Plan.INTERVAL_TYPE_CHOICES

SUBSCRIPTION

• Subscription.is_period_current() now checks for a current trial end if the current period has ended. This change means subscriptions extended with Subscription.extend() will now be seen as valid.

We'll sync your current records with Stripe in a migration. It will take a while, but it's the only way we can ensure data integrity. There were some fields for which we needed to temporarily add placeholder defaults, so just make sure you have a customer with ID 1 and a plan with ID 1 and you shouldn't run into any issues (create dummy values for these if need be and delete them after the migration).

Subscription and InvoiceItem migration is not possible because old records don't have Stripe IDs (so we can't sync them). Our approach is to delete all local subscription and invoiceitem objects and re-sync them from Stripe.

We 100% recommend you create a backup of your database before performing this upgrade.

Other changes

- Postgres users now have access to the DJSTRIPE_USE_NATIVE_JSONFIELD setting. (Thanks @jleclanche) #517, #523
- Charge receipts now take DJSTRIPE_SEND_INVOICE_RECEIPT_EMAILS into account (Thanks @r0fls)
- Clarified/modified installation documentation (Thanks @pydanny)
- Corrected and revised ANONYMOUS_USER_ERROR_MSG (Thanks @pydanny)
- Added fnmatching to SubscriptionPaymentMiddleware (Thanks @pydanny)

- SubscriptionPaymentMiddleware.process_request() functionality broken up into multiple methods, making local customizations easier (Thanks @pydanny)
- Fully qualified events are now supported by event handlers as strings e.g. 'customer.subscription.deleted' (Thanks @lskillen) #316
- runtests now accepts positional arguments for declaring which tests to run (Thanks @lskillen) #317
- It is now possible to reprocess events in both code and the admin interface (Thanks @lskillen) #318
- The confirm page now checks that a valid card exists. (Thanks @scream4ik) #325
- Added support for viewing upcoming invoices (Thanks @lskillen) #320
- Event handler improvements and bugfixes (Thanks @lskillen) #321
- API list() method bugfixes (Thanks @lskillen) #322
- Added support for a custom webhook event handler (Thanks @lskillen) #323
- Django REST Framework contrib package improvements (Thanks @aleccool213) #334
- Added tax_percent to CreateSubscriptionSerializer (Thanks @aleccool213) #349
- Fixed incorrectly assigned application_fee in Charge calls (Thanks @kronok) #382
- Fixed bug caused by API change (Thanks @jessamynsmith) #353
- Added inline documentation to pretty much everything and enforced docsytle via flake8 (Thanks @aleccool213)
- Fixed outdated method call in template (Thanks @kandoio) #391
- Customer is correctly purged when subscriber is deleted, regardless of how the deletion happened (Thanks @lskillen) #396
- Test webhooks are now properly captured and logged. No more bounced requests to Stripe! (Thanks @jameshiew) #408
- CancelSubscriptionView redirect is now more flexible (Thanks @jleclanche) #418
- Customer.sync_cards() (Thanks @jleclanche) #438
- Many stability fixes, bugfixes, and code cleanup (Thanks @jleclanche)
- Support syncing cancelled subscriptions (Thanks @jleclanche) #443
- Improved admin interface (Thanks @jleclanche with @jameshiew) #451
- Support concurrent TEST + LIVE API keys (Fix webhook event processing for both modes) (Thanks @jleclanche) #461
- Added Stripe Dashboard link to admin change panel (Thanks @jleclanche) #465
- Implemented Plan.amount_in_cents (Thanks @jleclanche) #466
- Implemented Subscription.reactivate() (Thanks @jleclanche) #470
- Added Plan.human_readable_price (Thanks @jleclanche) #498
- (Re)attach the Subscriber when we find it's id attached to a customer on Customer sync (Thanks @jleclanche) #500
- Made API version configurable (with dj-stripe recommended default) (Thanks @lskillen) #504

1.22.5 0.8.0 (2015-12-30)

- better plan ordering documentation (Thanks @cjrh)
- added a confirmation page when choosing a subscription (Thanks @chrissmejia, @areski)
- setup.py reverse dependency fix (#258/#268) (Thanks @ticosax)
- Dropped official support for Django 1.7 (no code changes were made)
- Python 3.5 support, Django 1.9.1 support
- Migration improvements (Thanks @michi88)
- Fixed "Invoice matching query does not exist" bug (#263) (Thanks @mthornhill)
- Fixed duplicate content in account view (Thanks @areski)

1.22.6 0.7.0 (2015-09-22)

- dj-stripe now responds to the invoice.created event (Thanks @wahuneke)
- dj-stripe now cancels subscriptions and purges customers during sync if they were deleted from the stripe dashboard (Thanks @unformatt)
- dj-stripe now checks for an active stripe subscription in the update_plan_quantity call (Thanks @ctrengove)
- Event processing is now handled by "event handlers" functions outside of models that respond to various event types and subtypes. Documentation on how to tie into the event handler system coming soon. (Thanks @wahuneke)
- Experimental Python 3.5 support
- Support for Django 1.6 and lower is now officially gone.
- Much, much more!

1.22.7 0.6.0 (2015-07-12)

- Support for Django 1.6 and lower is now deprecated.
- Improved test harness now tests coverage and pep8
- SubscribeFormView and ChangePlanView no longer populate self.error with form errors
- InvoiceItems.plan can now be null (as it is with individual charges), resolving #140 (Thanks @awechsler and @MichelleGlauser for help troubleshooting)
- Email templates are now packaged during distribution.
- · sync_plans now takes an optional api_key
- 100% test coverage
- Stripe ID is now returned as part of each model's str method (Thanks @areski)
- Customer model now stores card expiration month and year (Thanks @jpadilla)
- Ability to extend subscriptions (Thanks @TigerDX)
- Support for plan heirarchies (Thanks @chrissmejia)
- Rest API endpoints for Subscriptions [contrib] (Thanks @philippeluickx)

• Admin interface search by email funtionality is removed (#221) (Thanks @jpadilla)

1.22.8 0.5.0 (2015-05-25)

- Began deprecation of support for Django 1.6 and lower.
- Added formal support for Django 1.8.
- Removed the StripeSubscriptionSignupForm
- Removed djstripe.safe_settings. Settings are now all located in djstripe.settings
- DJSTRIPE_TRIAL_PERIOD_FOR_SUBSCRIBER_CALLBACK can no longer be a module string
- The sync_subscriber argument has been renamed from subscriber_model to subscriber
- Moved available currencies to the DJSTRIPE_CURRENCIES setting (Thanks @martinhill)
- Allow passing of extra parameters to stripe Charge API (Thanks @mthornhill)
- Support for all available arguments when syncing plans (Thanks @jamesbrobb)
- charge.refund() now returns the refunded charge object (Thanks @mthornhill)
- Charge model now has captured field and a capture method (Thanks @mthornhill)
- · Subscription deleted webhook bugfix
- South migrations are now up to date (Thanks @Tyrdall)

1.22.9 0.4.0 (2015-04-05)

- Formal Python 3.3+/Django 1.7 Support (including migrations)
- Removed Python 2.6 from Travis CI build. (Thanks @audreyr)
- Dropped Django 1.4 support. (Thanks @audreyr)
- Deprecated the djstripe.forms.StripeSubscriptionSignupForm. Making this form work easily with both dj-stripe and django-allauth required too much abstraction. It will be removed in the 0.5.0 release.
- Add the ability to add invoice items for a customer (Thanks @kavdev)
- Add the ability to use a custom customer model (Thanks @kavdev)
- Added setting to disable Invoice receipt emails (Thanks Chris Halpert)
- Enable proration when customer upgrades plan, and pass proration policy and cancellation at period end for upgrades in settings. (Thanks Yasmine Charif)
- Removed the redundant context processor. (Thanks @kavdev)
- Fixed create a token call in change_card.html (Thanks @dollydagr)
- Fix charge.dispute.closed typo. (Thanks @ipmb)
- Fix contributing docs formatting. (Thanks @audreyr)
- Fix subscription cancelled_at_period_end field sync on plan upgrade (Thanks @nigma)
- Remove "account" bug in Middleware (Thanks @sromero84)
- Fix correct plan selection on subscription in subscribe form template. (Thanks Yasmine Charif)

- Fix subscription status in account, _subscription_status, and cancel_subscription templates. (Thanks Yasmine Charif)
- Now using user.get_username() instead of user.username, to support custom User models. (Thanks @shvechikov)
- Update remaining DOM Ids for Bootstrap 3. (Thanks Yasmine Charif)
- Update publish command in setup.py. (Thanks @pydanny)
- Explicitly specify tox's virtual environment names. (Thanks @audreyr)
- Manually call django.setup() to populate apps registry. (Thanks @audreyr)

1.22.10 0.3.5 (2014-05-01)

• Fixed djstripe_init_customers management command so it works with custom user models.

1.22.11 0.3.4 (2014-05-01)

- Clarify documentation for redirects on app_name.
- If settings.DEBUG is True, then django-debug-toolbar is exempt from redirect to subscription form.
- Use collections. Ordered Dict to ensure that plans are listed in order of price.
- Add ordereddict library to support Python 2.6 users.
- Switch from __unicode__ to __str__ methods on models to better support Python 3.
- Add python_2_unicode_compatible decorator to Models.
- Check for PY3 so the unicode (self.user) in models. Customer doesn't blow up in Python 3.

1.22.12 0.3.3 (2014-04-24)

- Increased the extendability of the views by removing as many hard-coded URLs as possible and replacing them with success url and other attributes/methods.
- Added single unit purchasing to the cookbook

1.22.13 0.3.2 (2014-01-16)

- Made Yasmine Charif a core committer
- Take into account trial days in a subscription plan (Thanks Yasmine Charif)
- Correct invoice period end value (Thanks Yasmine Charif)
- Make plan cancellation and plan change consistently not prorating (Thanks Yasmine Charif)
- Fix circular import when ACCOUNT_SIGNUP_FORM_CLASS is defined (Thanks Dustin Farris)
- Add send e-mail receipt action in charges admin panel (Thanks Buddy Lindsay)
- Add created field to all ModelAdmins to help with internal auditing (Thanks Kulbir Singh)

1.22.14 0.3.1 (2013-11-14)

- Cancellation fix (Thanks Yasmine Charif)
- Add setup.cfg for wheel generation (Thanks Charlie Denton)

1.22.15 0.3.0 (2013-11-12)

- Fully tested against Django 1.6, 1.5, and 1.4
- Fix boolean default issue in models (from now on they are all default to False).
- Replace duplicated code with djstripe.utils.user_has_active_subscription.

1.22.16 0.2.9 (2013-09-06)

- · Cancellation added to views.
- Support for kwargs on charge and invoice fetching.
- def charge() now supports send_receipt flag, default to True.
- Fixed templates to work with Bootstrap 3.0.0 column design.

1.22.17 0.2.8 (2013-09-02)

- · Improved usage documentation.
- Corrected order of fields in StripeSubscriptionSignupForm.
- Corrected transaction history template layout.
- Updated models to take into account when settings.USE_TZ is disabled.

1.22.18 0.2.7 (2013-08-24)

- Add handy rest_framework permission class.
- Fixing attribution for django-stripe-payments.
- Add new status to Invoice model.

1.22.19 0.2.6 (2013-08-20)

- · Changed name of division tag to djdiv.
- Added safe_setting.py module to handle edge cases when working with custom user models.
- Added cookbook page in the documentation.

1.22.20 0.2.5 (2013-08-18)

- · Fixed bug in initial checkout
- You can't purchase the same plan that you currently have.

1.22.21 0.2.4 (2013-08-18)

· Recursive package finding.

1.22.22 0.2.3 (2013-08-16)

· Fix packaging so all submodules are loaded

1.22.23 0.2.2 (2013-08-15)

• Added Registration + Subscription form

1.22.24 0.2.1 (2013-08-12)

- Fixed a bug on CurrentSubscription tests
- Improved usage documentation
- Added to migration from other tools documentation

1.22.25 0.2.0 (2013-08-12)

- Cancellation of plans now works.
- Upgrades and downgrades of plans now work.
- · Changing of cards now works.
- Added breadcrumbs to improve navigation.
- Improved installation instructions.
- Consolidation of test instructions.
- Minor improvement to django-stripe-payments documentation
- Added coverage.py to test process.
- Added south migrations.
- Fixed the subscription_payment_required function-based view decorator.
- · Removed unnecessary django-crispy-forms

1.22.26 0.1.7 (2013-08-08)

• Middleware excepts all of the distripe namespaced URLs. This way people can pay.

1.22.27 0.1.6 (2013-08-08)

- Fixed a couple template paths
- Fixed the manifest so we include html, images.

1.22.28 0.1.5 (2013-08-08)

• Fixed the manifest so we include html, css, js, images.

1.22.29 0.1.4 (2013-08-08)

- Change PaymentRequiredMixin to SubscriptionPaymentRequiredMixin
- Add subscription_payment_required function-based view decorator
- Added SubscriptionPaymentRedirectMiddleware
- · Much nicer accounts view display
- · Much improved subscription form display
- · Payment plans can have decimals
- Payment plans can have custom images

1.22.30 0.1.3 (2013-08-7)

- · Added account view
- · Added Customer.get_or_create method
- Added djstripe_sync_customers management command
- sync file for all code that keeps things in sync with stripe
- Use client-side JavaScript to get history data asynchronously
- · More user friendly action views

1.22.31 0.1.2 (2013-08-6)

- · Admin working
- Better publish statement
- Fix dependencies

1.22.32 0.1.1 (2013-08-6)

- · Ported internals from django-stripe-payments
- · Began writing the views
- Travis-CI
- All tests passing on Python 2.7 and 3.3
- All tests passing on Django 1.4 and 1.5
- · Began model cleanup
- Better form
- Provide better response from management commands

1.22.33 0.1.0 (2013-08-5)

• First release on PyPI.

1.23 Support

No content... yet

CHAPTER 2

Constraints

- 1. For stripe.com only
- 2. Only use or support well-maintained third-party libraries
- 3. For modern Python and Django

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