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# **django-getpaid Documentation**

*Release 2.2.1*

**Sunscrapers**

**May 26, 2020**



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**django-getpaid** is a multi-broker payment processor for Django. Main features include:

- support for multiple payment brokers at the same time
- very flexible architecture
- support for asynchronous status updates - both push and pull
- support for modern REST-based broker APIs
- support for multiple currencies (but one per payment)
- support for global and per-plugin validators
- easy customization with provided base abstract models and swappable mechanic (same as with Django's User model)

We would like to provide a *catalog* of plugins for `django-getpaid` - if you create a plugin please let us know.

**Disclaimer:** this project has nothing in common with `getpaid` plone project.

This project uses [semantic versioning](#).



## CONTENTS:

### 1.1 Installation & Configuration

This document presents the minimal steps required to use `django-getpaid` in your project.

#### 1.1.1 Get it from PyPI

```
pip install django-getpaid
```

We do not recommend using development version as it may contain bugs.

#### 1.1.2 Install at least one plugin

There should be several plugins available in our repo. Each follows this schema: `django-getpaid-<backend_name>` For example if you want to install PayU integration, run:

```
pip install django-getpaid-payu
```

#### 1.1.3 Enable app and plugin

Next, add `"getpaid"` and any plugin to `INSTALLED_APPS` in your `settings.py`. Plugins have the format `getpaid_<backend_name>`:

```
INSTALLED_APPS = [  
    # ...  
    "getpaid",  
    "getpaid_payu",  
]
```

### 1.1.4 Create Order model

You need to create your own model for an order. It should inherit from `getpaid.models.AbstractOrder` (if not, it must implement its methods) and you need to implement some methods. It could look like this example:

```
from django.conf import settings
from django.db import models
from getpaid.models import AbstractOrder

class CustomOrder(AbstractOrder):
    buyer = models.ForeignKey(settings.AUTH_USER_MODEL, on_delete=models.CASCADE)
    description = models.CharField(max_length=128, default='Order from mystore')
    total = models.DecimalField()
    currency = models.CharField(max_length=3, default=settings.DEFAULT_CURRENCY)

    def get_buyer_info(self):
        return {"email": self.buyer.email}

    def get_total_amount(self):
        return self.total

    def get_description(self):
        return self.description

    def get_currency(self):
        return self.currency

    # either one of those two is required:
    def get_redirect_url(self, *args, success=None, **kwargs):
        # this method will be called to get the url that will be displayed
        # after returning from the paypal page and you can use `success` param
        # to differentiate the behavior in case the backend supports it.
        # By default it returns this:
        return self.get_absolute_url()

    def get_absolute_url(self):
        # This is a standard method recommended in Django documentation.
        # It should return an URL with order details. Here's an example:
        return reverse("order-detail", kwargs={"pk": self.pk})

    # these are optional:
    def is_ready_for_payment(self):
        # Most of the validation will be handled by the form
        # but if you need any extra logic beyond that, you can write it here.
        # This is the default implementation:
        return True

    def get_items(self):
        # Some backends expect you to provide the list of items.
        # This is the default implementation:
        return [{
            "name": self.get_description(),
            "quantity": 1,
            "unit_price": self.get_total_amount(),
        }]
```



### 1.1.5 Tell `getpaid` what model handles orders

Put this inside your `settings.py`:

```
GETPAID_ORDER_MODEL = "yourapp.CustomOrder"
```

### 1.1.6 (Optional) Provide custom Payment model

If you want, you can provide your own Payment model. Read more in *Customization - Payment API*.

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**Note:** Payment model behaves like `django.auth.User` model - after you use the original, migration to a custom version is VERY hard.

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### 1.1.7 Add `getpaid` to urls

```
urlpatterns = [  
    # ...  
    path("payments", include("getpaid.urls")),  
]
```

### 1.1.8 Provide config for plugins

For each installed plugin you can configure it in `settings.py`:

```
GETPAID = {  
    "BACKENDS": {  
        "getpaid_payu": { # dotted import path of the plugin  
            # refer to backend docs and take these from your merchant panel:  
            "pos_id": 12345,  
            "second_key": "91ae651578c5b5aa93f2d38a9be8ce11",  
            "client_id": 12345,  
            "client_secret": "12f071174cb7eb79d4aac5bc2f07563f",  
        },  
  
        # this plugin is meant only for testing purposes  
        "getpaid.backends.dummy": {  
            "confirmation_method": "push",  
        },  
    },  
}
```

### 1.1.9 Prepare views and business logic

The logic for building an order is up to you. You can eg. use a cart application to gather all Items for your Order. An example view and its hookup to urls.py can look like this:

```
# orders/views.py
from getpaid.forms import PaymentMethodForm

class OrderView(DetailView):
    model = Order

    def get_context_data(self, **kwargs):
        context = super(OrderView, self).get_context_data(**kwargs)
        context["payment_form"] = PaymentMethodForm(
            initial={"order": self.object, "currency": self.object.currency}
        )
        return context

# main urls.py

urlpatterns = [
    # ...
    path("order/<int:pk>/", OrderView.as_view(), name="order_detail"),
]
```

You'll also need a template (order\_detail.html in this case) for this view. Here's the important part:

```
<h2>Choose payment broker:</h2>
<form action="{% url 'getpaid:create-payment' %}" method="post">
  {% csrf_token %}
  {{ payment_form.as_p }}
  <input type="submit" value="Checkout">
</form>
```

And that's pretty much it.

After you open order detail you should see a list of plugins supporting your currency and a “Checkout” button that will redirect you to selected paywall. After completing the payment, you will return to the same view.

Please see fully working [example app](#).

### 1.1.10 Next steps

If you're not satisfied with provided Payment model or the PaymentMethodForm, please see [customization docs](#).

## 1.2 Plugin catalog

All plugins in alphabetical order.

Currently a lot of plugins is being developed or ported. Please stay tuned.

## 1.2.1 PayU

- PyPI name: `django-getpaid-payu`
- Repository: <https://github.com/django-getpaid/django-getpaid-payu>
- Original API Docs: <https://www.payu.pl/en/developers>
- Sandbox panel: <https://merch-prod.snd.payu.com/user/login>
- Currencies: BGN, CHF, CZK, DKK, EUR, GBP, HRK, HUF, NOK, PLN, RON, RUB, SEK, UAH, USD

## 1.3 Settings

- *Core settings*
- *Backend settings*
- *Optional settings*

### 1.3.1 Core settings

#### `GETPAID_ORDER_MODEL`

No default, you **must** provide this setting.

The model to represent an Order. See *Customization - Payment API*.

**Warning:** You cannot change the `GETPAID_ORDER_MODEL` setting during the lifetime of a project (i.e. once you have made and migrated models that depend on it) without serious effort. It is intended to be set at the project start, and the model it refers to must be available in the first migration of the app that it lives in.

#### `GETPAID_PAYMENT_MODEL`

Default: `'getpaid.Payment'`

The model to represent a Payment. See *Customization - Payment API*.

**Warning:** You cannot change the `GETPAID_PAYMENT_MODEL` setting during the lifetime of a project (i.e. once you have made and migrated models that depend on it) without serious effort. It is intended to be set at the project start, and the model it refers to must be available in the first migration of the app that it lives in.

### 1.3.2 Backend settings

To provide configuration for payment backends, place them inside `GETPAID_BACKEND_SETTINGS` dictionary. Use plugin's dotted path - just as you put it in `INSTALLED_APPS` - as a key for the config dict. See this example:

```
GETPAID_BACKEND_SETTINGS = {
    "getpaid.backends.dummy": {
        "confirmation_method": "push",
        "gateway": reverse_lazy("paywall:gateway"),
    },
    "getpaid_paynow": {
        "api_key": "9bcdead5-b194-4eb5-a1d5-c1654572e624",
        "signature_key": "54d22fdb-2a8b-4711-a2e9-0e69a2a91189",
    },
}
```

Each backend defines its own settings this way. Please check the backend's documentation.

### 1.3.3 Optional settings

A place for optional settings is `GETPAID` dictionary, empty by default. It can contain these keys:

#### **POST\_TEMPLATE**

Default: None

This setting is used by processor's default `get_template_names()` method to override backend's `template_name`. The template is used to render that backend's POST form. This setting can be used to provide a global default for such cases if you use more plugins requiring such template. You can also use `POST_TEMPLATE` key in *backend's config* to override the template just for one backend.

#### **POST\_FORM\_CLASS**

Default: None

This setting is used by backends that use POST flow. This setting can be used to provide a global default for such cases if you use more plugins requiring such template. You can also use `POST_FORM_CLASS` key in *backend's config* to override the template just for one backend. Use full dotted path name.

#### **SUCCESS\_URL**

Default: "getpaid:payment-success"

Allows setting custom view name for successful returns from paywall. Again, this can also be set on a per-backend basis.

If the view requires kwargs to be resolved, you need to override

**FAILURE\_URL**

Default: "getpaid:payment-failure"

Allows setting custom view name for fail returns from paypal. Again, this can also be set on a per-backend basis.

**HIDE\_LONELY\_PLUGIN**

Default: False

Allows you to hide plugin selection if only one plugin would be presented. The hidden plugin will be chosen as default.

**VALIDATORS**

Default: []

Here you can provide import paths for validators that will be run against the payment before it is sent to the paypal. This can also be set on a per-backend basis.

## 1.4 Customization - Payment API

Django-getpaid was designed to be very customizable. In this document you'll read about the Payment API which lets you customize most of the mechanics of `django-getpaid`.

Since most Payment methods act as interface to `PaymentProcessor`, you can use this to add extra layer between the Payment and the `PaymentProcessor`.

### 1.4.1 Basic Order API

**class** `getpaid.models.AbstractOrder` (\*args, \*\*kwargs)

Please consider setting either primary or secondary key of your Orders to `UUIDField`. This way you will hide your volume which is valuable business information that should be kept hidden. If you set it as secondary key, remember to use `dbindex=True` (primary keys are indexed by default). Read more: <https://docs.djangoproject.com/en/3.0/ref/models/fields/#uuidfield>

**get\_return\_url** (\*args, success=None, \*\*kwargs) → str

Method used to determine the final url the client should see after returning from gateway. Client will be redirected to this url after backend handled the original callback (i.e. updated payment status) and only if `SUCCESS_URL` or `FAILURE_URL` settings are NOT set. By default it returns the result of `get_absolute_url`

**get\_absolute\_url** () → str

Standard method recommended in Django docs. It should return the URL to see details of particular Payment (or usually - Order).

**is\_ready\_for\_payment** () → bool

Most of the validation is made in `PaymentMethodForm` but if you need any extra validation. For example you most probably want to disable making another payment for order that is already paid.

You can raise `ValidationError` if you want more verbose error message.

**get\_items** () → List[`getpaid.types.ItemInfo`]

There are backends that require some sort of item list to be attached to the payment. But it's up to you if the list is real or contains only one item called "Payment for stuff in {myshop}";)

**Returns** List of `ItemInfo` dicts. Default: order summary.

**Return type** `List[ItemInfo]`

**get\_total\_amount** () → `decimal.Decimal`

This method must return the total value of the Order.

**Returns** Decimal object

**get\_buyer\_info** () → `getpaid.types.BuyerInfo`

This method should return dict with necessary user info. For most backends email should be sufficient. Refer to `:class`BuyerInfo`` for expected structure.

**get\_description** () → `str`

**Returns** Description of the Order. Should return the value of appropriate field.

## 1.4.2 Basic Payment API

*AbstractPayment* defines a minimal set of fields that are expected by *BaseProcessor* API. If you want to have it completely your own way, make sure to provide properties linking your fieldnames to expected names.

```
class getpaid.models.AbstractPayment (*args, **kwargs)
```

**id**

UUID to not disclose your volume.

**order**

ForeignKey to (swappable) Order model.

**amount\_required**

Decimal value with 4 decimal places. Total value of the Order that needs to be paid.

**currency**

Currency code in ISO 4217 format.

**status**

Status of the Payment - one of `PAYMENT_STATUS_CHOICES`. This field is managed using django-fsm.

**backend**

Identifier of the backend processor used to handle this Payment.

**created\_on**

Datetime of Payment creation - automated.

**last\_payment\_on**

Datetime the Payment has been completed. Defaults to `NULL`.

**amount\_paid**

Amount actually paid by the buyer. Should be equal `amount_required` if backend does not support partial payments. Will be smaller than that after partial refund is done.

**amount\_locked**

Amount that has been pre-authed by the buyer. Needs to be charged to finalize payment or released if the transaction cannot be fulfilled.

**amount\_refunded**

Amount that was refunded. Technically this should be equal to `amount_required - amount_paid`.

**external\_id**

ID of the payment on paypal's system. Optional.

**description**

Payment description (max 128 chars).

**fraud\_status**

Field representing the result of fraud check (only on supported backends).

**fraud\_message**

Message provided along with the fraud status.

**get\_processor** () → *getpaid.processor.BaseProcessor*

Returns the processor instance for the backend that was chosen for this Payment. By default it takes it from global backend registry and tries to import it when it's not there. You most probably don't want to mess with this.

**get\_unique\_id** () → str

Return unique identifier for this payment. Most paywalls call this "external id". Default: str(self.id) which is uuid4.

**get\_items** () → List[*getpaid.types.ItemInfo*]

Some backends require the list of items to be added to Payment.

This method relays the call to Order. It is here simply because you can change the Order's fieldname when customizing Payment model. In that case you need to overwrite this method so that it properly returns a list.

**get\_form** (\*args, \*\*kwargs) → *django.forms.forms.BaseForm*

Interfaces processor's `get_form`.

Returns a Form to be used on intermediate page if the method returned by `get_redirect_method` is 'POST'.

**get\_template\_names** (view=None) → List[str]

Interfaces processor's `get_template_names`.

Used to get templates for intermediate page when `get_redirect_method` returns 'POST'.

**handle\_paywall\_callback** (request, \*\*kwargs) → *django.http.response.HttpResponse*

Interfaces processor's `handle_paywall_callback`.

Called when 'PUSH' flow is used for a backend. In this scenario paywall will send a request to our server with information about the state of Payment. Broker can send several such requests during Payment's lifetime. Backend should analyze this request and return appropriate response that can be understood by paywall.

**Parameters** `request` – Request sent by paywall.

**Returns** `HttpResponse` instance

**fetch\_status** () → *getpaid.types.PaymentStatusResponse*

Interfaces processor's `fetch_payment_status`.

Used during 'PULL' flow. Fetches status from paywall and proposes a callback depending on the response.

**fetch\_and\_update\_status** () → *getpaid.types.PaymentStatusResponse*

Used during 'PULL' flow to automatically fetch and update Payment's status.

**prepare\_transaction** (request: *Optional[django.http.request.HttpRequest]* = None, view: *Optional[django.views.generic.base.View]* = None, \*\*kwargs) → *django.http.response.HttpResponse*

Interfaces processor's `prepare_transaction` ().

**prepare\_transaction\_for\_rest** (*request: Optional[django.http.request.HttpRequest] = None, view: Optional[django.views.generic.base.View] = None, \*\*kwargs*) → `getpaid.types.RestfulResult`

Helper function returning data as dict to better integrate with Django REST Framework.

**confirm\_prepared** (*\*\*kwargs*) → `None`

Used to confirm that paywall registered POSTed form.

**confirm\_lock** (*amount: Union[decimal.Decimal, float, int, None] = None, \*\*kwargs*) → `None`

Used to confirm that certain amount has been locked (pre-authed).

**charge** (*amount: Union[decimal.Decimal, float, int, None] = None, \*\*kwargs*) → `getpaid.types.ChargeResponse`  
Interfaces processor's `charge()`.

**confirm\_charge\_sent** (*\*\*kwargs*) → `None`

Used during async charge cycle - after you send charge request, the confirmation will be sent to callback endpoint.

**confirm\_payment** (*amount: Union[decimal.Decimal, float, int, None] = None, \*\*kwargs*) → `None`

Used when receiving callback confirmation.

**mark\_as\_paid** (*\*\*kwargs*) → `None`

Marks payment as fully paid if condition is met.

**release\_lock** (*\*\*kwargs*) → `decimal.Decimal`

Interfaces processor's `charge()`.

**start\_refund** (*amount: Union[decimal.Decimal, float, int, None] = None, \*\*kwargs*) → `decimal.Decimal`  
Interfaces processor's `charge()`.

**cancel\_refund** (*\*\*kwargs*) → `bool`

Interfaces processor's `charge()`.

**confirm\_refund** (*amount: Union[decimal.Decimal, float, int, None] = None, \*\*kwargs*) → `None`

Used when receiving callback confirmation.

**mark\_as\_refunded** (*\*\*kwargs*) → `None`

Verify if refund was partial or full.

**fail** (*\*\*kwargs*) → `None`

Sets Payment as failed.

## 1.5 Creating payment plugins

In order to create a plugin for a payment broker, first you need to write a subclass of `BaseProcessor` named `PaymentProcessor` and place it in `processor.py` in your app.

The only method you have to provide is `prepare_transaction()` that needs to return a `HttpResponse` subclass (eg. `HttpResponseRedirect` or `TemplateResponse`). The use of all other methods depends directly on how the paywall operates.

To make your plugin available for the rest of the framework, you need to register it. The most convenient way to do so is `apps.py`:

```
from django.apps import AppConfig

class MyPluginAppConfig(AppConfig):
    name = "getpaid_myplugin"
```

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```

verbose_name = "Some payment broker"

def ready(self):
    from getpaid.registry import registry

    registry.register(self.module)

```

This way your plugin will be automatically registered after adding it to `INSTALLED_APPS`.

## 1.5.1 Detailed API

**class** `getpaid.processor.BaseProcessor` (*payment: django.db.models.base.Model*)

**production\_url = None**

Base URL of production environment.

**sandbox\_url = None**

Base URL of sandbox environment.

**display\_name = None**

The name of the provider for the choices.

**accepted\_currencies = None**

List of accepted currency codes (ISO 4217).

**logo\_url = None**

Logo URL - can be used in templates.

**ok\_statuses = [200]**

List of potentially successful HTTP status codes returned by paywall when creating payment

**slug = None**

For friendly urls

**static get\_our\_baseurl** (*request: django.http.request.HttpRequest = None, \*\*kwargs*) → str

Little helper function to get base url for our site. Note that this way 'https' is enforced on production environment.

**prepare\_form\_data** (*post\_data: dict, \*\*kwargs*) → Mapping[str, Any]

If backend support several modes of operation, POST should probably additionally calculate some sort of signature based on passed data.

**get\_form** (*post\_data: dict, \*\*kwargs*) → django.forms.forms.BaseForm

(Optional) Used to get POST form for backends that use such flow.

**abstract prepare\_transaction** (*request: django.http.request.HttpRequest, view: Optional[django.views.generic.base.View] = None, \*\*kwargs*) → django.http.response.HttpResponse

Prepare Response for the view asking to prepare transaction.

**Returns** HttpResponse instance

**handle\_paywall\_callback** (*request: django.http.request.HttpRequest, \*\*kwargs*) → django.http.response.HttpResponse

This method handles the callback from paywall for the purpose of asynchronously updating the payment status in our system.

**Returns** HttpResponse instance that will be presented as answer to the callback.

**fetch\_payment\_status** (*\*\*kwargs*) → `getpaid.types.PaymentStatusResponse`

Logic for checking payment status with paywall.

**charge** (*amount: Union[decimal.Decimal, float, int, None] = None, \*\*kwargs*) → `getpaid.types.ChargeResponse`

(Optional) Check if payment can be locked and call processor's method. This method is used eg. in flows that pre-authorize payment during order placement and charge money later.

**release\_lock** (*\*\*kwargs*) → `decimal.Decimal`

(Optional) Release locked payment. This can happen if pre-authorized payment cannot be fulfilled (eg. the ordered product is no longer available for some reason). Returns released amount.

**start\_refund** (*amount: Union[decimal.Decimal, float, int, None] = None, \*\*kwargs*) → `decimal.Decimal`

Refunds the given amount.

Returns the amount that is refunded.

**cancel\_refund** (*\*\*kwargs*) → `bool`

Cancels started refund.

Returns True/False if the cancel succeeded.

## 1.6 Plugin registry

Plugin registry is a convenient way to handle multiple brokers that can support different currencies and provide different flows.

### 1.6.1 Internal API

**class** `getpaid.registry.PluginRegistry`

**register** (*module\_or\_proc*)

Register module containing `PaymentProcessor` class or a `PaymentProcessor` directly.

**get\_choices** (*currency*)

Get CHOICES for plugins that support given currency.

**get\_backends** (*currency*)

Get plugins that support given currency.

**property** `urls`

Provide URL structure for all registered plugins that have urls defined.

**get\_all\_supported\_currency\_choices** ()

Get all currencies that are supported by at least one plugin, in CHOICES format.

## 1.7 Planned features

These features are planned for future versions (in no particular order):

- translations
- paywall communication log (all responses and callbacks)
- Subscriptions handling
- cookiecutter for plugins
- django-rest-framework helpers
- async/await support
- admin actions to PULL payment statuses

## 1.8 History

### 1.8.1 Version 2.2.0 (2020-05-03)

- Add template tag
- Add helper for REST integration

### 1.8.2 Version 2.1.0 (2020-04-30)

- Definitions for all internal data types and statuses
- Full type hinting
- Fixed bugs (thanks to [Kacper Pikulski!](#))

### 1.8.3 Version 2.0.0 (2020-04-18)

- BREAKING: Complete redesign of internal APIs.
- Supports only Django 2.2+ and Python 3.6+
- Payment and Order became swappable models - like Django's User model
- Payment acts as customizable interface to PaymentProcessor instances (but be careful).
- Payment statuses guarded with django-fsm
- Broker plugins separated from main repo - easier updates.

### **1.8.4 Version 1.8.0 (2018-07-24)**

- Updated project structure thanks to cookiecutter-djangopackage
- New plugin: pay\_rest - New PayU API
- Updated following plugins: - payu - legacy API still works on new URL
- Dropped support for following plugins: - epaydk (API no longer functional) - moip (will be moved to separate package) - transferuj.pl (API no longer functional) - przelewy24.pl (API needs update, but no sandbox available anymore)
- Dropped support for Django <= 1.10
- Provide support for Django 2.0

### **1.8.5 Version 1.7.5**

- Fixed przelewy24 params (py3 support)

### **1.8.6 Version 1.7.4**

- Added default apps config `getpaid.apps.Config`
- Fixed and refactoring for `utils.get_domain`, `build_absolute_uri`, `settings.GETPAID_SITE_DOMAIN`
- Refactored `register_to_payment`
- Refactored `build_absolute_uri`
- Refactored and fixes in transferuj backend - `payment.paid_on` uses local `TIMEZONE` now as opposed to `UTC` - changed params - add post method to `SuccessView` and `FailureView`
- Added test models factories
- Dropped support for Django <=1.6

### **1.8.7 Version 1.7.3**

- Refactored Dotpay
- Moved all existing tests to `test_project` and added more/refactored
- Fixed `utils.import_module`
- Fixed Payu and tests (py3 support)
- Updated docs

### 1.8.8 Version 1.7.2

- Updated coveragerc and travis.yml
- Added missing migration for Payment.status

### 1.8.9 Version 1.7.1

- Added coveragerc
- Updated README
- Added settings.GETPAID\_ORDER\_MODEL
- Added epay.dk support
- Added initial django migration

### 1.8.10 Version 1.7.0

- Refactoring to support for py3 (3.4)
- Change imports to be relative - fixes #43
- Add USD to supported currencies in Paymill backend (thanks lauris)
- Fix a few typos

### 1.8.11 Version 1.6.0

- Adding paymill backend
- PEP 8 improvements
- Adding support for django 1.5 in test project (+ tests)
- Fixed issue on *utils.import\_name* to allow packages without parents
- Adding dependency to pytz for przelewy24 backend
- Refactoring of PayU backend (xml->txt api, better logging) and adding support for non-auto payment accepting

### 1.8.12 Version 1.5.1

- Fixing packaging that causes errors with package installation

### 1.8.13 Version 1.5.0

- Adding new backend - Przelewy24.pl (thanks to IssueStand.com funding)
- Fixing packaging package data (now using only MANIFEST.in)

### **1.8.14 Version 1.4.0**

- Cleaned version 1.3 from minor issues before implementing new backends
- Brazilian backend moip
- Updated PL translation
- Added brazilian portuguese translation
- Storing payment external id and description in the database (warning: database migration needed!)
- Transferuj backend can now predefine interface language when redirecting
- POST method supported on redirect to payment

### **1.8.15 Version 1.3.0**

- Logotypes support in new payment form
- Fixing packaging

### **1.8.16 Version 1.2**

- Dotpay backend added
- Hooks for backends to accept email and user name
- Refactoring

### **1.8.17 Version 1.1**

- PayU backend added
- Lots of documentation
- Refactoring

### **1.8.18 Version 1.0**

- First stable version

## DEVELOPMENT TEAM

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Sponsors:

- [Sunscrapers](#)

You are welcome to contribute to this project via [github](#) fork & pull request.





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