
Django Lookout

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Install and Configure

Warning: If you're using HPKP, Django Lookout *must* be set up [on a different domain name](#).

1.1 Step 1: Install

```
pip install Django-Lookout
```

1.2 Step 2: Update `INSTALLED_APPS`

Add the app to your project's `settings.py`:

```
INSTALLED_APPS = [  
    ...  
    'lookout',  
    ...  
]
```

1.3 Step 3: Configure the API Endpoint

Add the API endpoint to `urls.py`. This is where you'll point `report-uri` on the frontend.

Note: You can set the pattern to whatever you want.

Note: Be mindful of trailing slashes.

```
urlpatterns = [  
    ...  
    # Django Lookout  
    url(r'^reporting', include('lookout.urls')),  
    ...  
]
```

1.4 Step 4: Migrate

Run the database migrations:

```
./manage.py migrate lookout
```

1.5 Step 5: Configure CSP/HPKP

[To do]

CHAPTER 2

Settings

TODO: List various settings and how they can be set in `settings.py`.

class `lookout.PackageVersion`

Bases: `object`

Attempts to determine the package's version.

static `from_distribution()` → `typing.Union[str, NoneType]`

Gets the package version from its installed distribution using `pkg_resources`.

static `from_file()` → `typing.Union[str, NoneType]`

Gets the package version from the `VERSION.txt` file created by `setuptools-scm`.

classmethod `get()` → `str`

Attempts each method to get the package version in turn until one succeeds.

3.1 lookout.exceptions

exception `lookout.exceptions.UnknownSchemaError`

Bases: `Exception`

Raised when a report doesn't match any of the known schemas.

msg = "The supplied JSON data doesn't match any known report schema."

exception `lookout.exceptions.JSONDecodeError` (*msg, doc, pos*)

Bases: `ValueError`

Subclass of `ValueError` with the following additional properties:

msg: The unformatted error message **doc**: The JSON document being parsed **pos**: The start index of doc where

parsing failed **lineno**: The line corresponding to **pos** **colno**: The column corresponding to **pos**

3.2 lookout.logging

class `lookout.logging.ReportMessage` (*msg=None, report=None*)

Bases: `object`

Log message that can contain unserialized report data to be passed to specialized log handlers.

msg = 'Django-Lookout'

report = None

3.3 lookout.models

class `lookout.models.Report` (**args, **kwargs*)

Bases: `django.db.models.base.Model`

A report filed through the HTTP Reporting API.

exception `DoesNotExist`

Bases: `django.core.exceptions.ObjectDoesNotExist`

exception `MultipleObjectsReturned`

Bases: `django.core.exceptions.MultipleObjectsReturned`

body

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

created_time

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

get_next_by_created_time (**, field=<django.db.models.fields.DateTimeField: created_time>, is_next=True, **kwargs*)

get_next_by_incident_time (**, field=<django.db.models.fields.DateTimeField: incident_time>, is_next=True, **kwargs*)

get_previous_by_created_time (**, field=<django.db.models.fields.DateTimeField: created_time>, is_next=False, **kwargs*)

get_previous_by_incident_time (**, field=<django.db.models.fields.DateTimeField: incident_time>, is_next=False, **kwargs*)

get_type_display (**, field=<django.db.models.fields.CharField: type>*)

incident_time

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

objects = `<lookout.models.ReportManager object>`

pretty_body () → `str`

Displays a nicely-formatted version of a the report's body.

schema

type

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

url

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

uuid

A wrapper for a deferred-loading field. When the value is read from this object the first time, the query is executed.

3.4 lookout.urls

URL patterns for the API endpoint.

Add the endpoint to your `urls.py` like so:

```
urlpatterns = [  
    ...  
    # Django Lookout  
    url(r'^reporting', include('lookout.urls')),  
    ...  
]
```

3.5 lookout.utils

3.6 lookout.views

```
class lookout.views.ReportView(**kwargs)  
    Bases: django.views.generic.base.View  
  
    Logs the report and returns an empty response.  
  
    dispatch (request, *args, **kwargs)  
  
    http_method_names = ['post']  
  
    static post (request: django.http.request.HttpRequest) → django.http.response.HttpResponse  
        Handles the POST request.
```


CHAPTER 4

To Do

CHAPTER 5

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