
Dynamic Breadcrumbs

Marcelo Canina

Sep 19, 2023

CONTENTS:

1	How does it work	3
2	Indices and tables	5
2.1	Installation	5
2.2	Getting Started	5
2.3	Settings Reference	6
2.4	Running the Test Suite	7

django-dynamic-breadcrumbs is a Django app to generate HTML breadcrumbs dynamically from URL paths.

HOW DOES IT WORK

1. A request is handled by Django at a specific URL:
`https://example.com/reference/instrument/guitar/`
2. A *context processor* analyze the URL, and extracts the path:
`/reference/instrument/guitar/`
3. For each part separated by `/` tries to *resolve* it and get the specific *View* that handles that URL.
4. Adds to the request context a list of names and urls

```
home      -> https://example.com
reference  -> https://example.com/reference
instrument -> https://example.com/reference/instrument
guitar
```

5. The template shows the above list with links for each level
Home > Reference > Instrument > Guitar

INDICES AND TABLES

- `genindex`
- `modindex`
- `search`

2.1 Installation

Django-dynamic-breadcrumbs can be installed from PyPI with tools like `pip`:

```
$ pip install django-dynamic-breadcrumbs
```

Then add `'dynamic_breadcrumbs'` to your `INSTALLED_APPS`.

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

2.1.1 Requirements

Django-dynamic-breadcrumbs is tested against these supported versions of Python and [Django](#)

- **Python:** 3.8
- **Django:** 3.2

2.2 Getting Started

2.2.1 Add to settings

Add `dynamic_breadcrumbs.context_processors.breadcrumbs` to **context_processors**:

```
TEMPLATES = [  
    {  
        "BACKEND": "django.template.backends.django.DjangoTemplates",  
        "DIRS": [os.path.join(BASE_DIR, "templates")],  
        "APP_DIRS": True,
```

(continues on next page)

(continued from previous page)

```
"OPTIONS": {
    "context_processors": [
        #...
        "dynamic_breadcrumbs.context_processors.breadcrumbs",
    ],
},
],
```

2.2.2 Add template

Include the *dynamic_breadcrumbs/breadcrumbs.html* in your base template.

```
{% if breadcrumbs %}
<div class="container">
    {% include "dynamic_breadcrumbs/breadcrumbs.html" with breadcrumbs=breadcrumbs %}
</div>
{% endif %}
```

2.3 Settings Reference

List of all available settings of *django-dynamic-breadcrumbs* and their default values.

All settings are prefixed with `DYNAMIC_BREADCRUMBS_`.

2.3.1 DYNAMIC_BREADCRUMBS_HOME_LABEL

Default: 'Home'

Set the default base Url to be shown as the first item of the breadcrumb list.

2.3.2 DYNAMIC_BREADCRUMBS_SHOW_AT_BASE_PATH

Default: False

Whether to show or hide breadcrumbs at site's root.

2.3.3 DYNAMIC_BREADCRUMBS_PATH_ONLY_ALPHANUMERIC

Default: True

Only allows alphanumeric characters in breadcrumb item names. If someone contains non-alphanumeric values it will show an empty string.

2.3.4 DYNAMIC_BREADCRUMBS_PATH_MAX_DEPTH

Default: 5

The maximum number of breadcrumb items to show

2.3.5 DYNAMIC_BREADCRUMBS_PATH_MAX_COMPONENT_LENGTH

Default: 50

Each path component's maximum length.

2.4 Running the Test Suite

To run the *django-dynamic-breadcrumbs* tests checkout the source code and create a virtualenv where you can install the test dependencies.

Note: The following assumes you have [virtualenv](#) and [git](#) installed.

2.4.1 Clone the repository

Get the source code using the following command:

```
$ git clone https://github.com/marcanuy/django-dynamic-breadcrumbs.git
```

Switch to the *django-dynamic-breadcrumbs* directory:

```
$ cd django-dynamic-breadcrumbs
```

2.4.2 Set up the virtualenv

Create a new virtualenv to run the test suite in:

```
$ python3 -m venv ~/.virtualenvs/django-dynamic-breadcrumbs
```

Then activate the virtualenv and install the test requirements:

```
$ source ~/.virtualenvs/django-dynamic-breadcrumbs/bin/activate  
$ pip install -r requirements/test.txt
```

2.4.3 Execute the test runner

Run the tests with the runner script:

```
$ make tests-run
```

2.4.4 Test all supported versions

To run the tests against all supported versions of Python and Django use `tox`, then:

```
$ tox
```

2.4.5 Formatting

Python code is formatted with `black`

```
$ black .
```