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# terra-backend-crud

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## Contents

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<b>1</b>	<b>Installation</b>	<b>3</b>
1.1	Requirements . . . . .	3
1.2	With pip . . . . .	3
1.3	With git . . . . .	3
<b>2</b>	<b>Configuration</b>	<b>5</b>
<b>3</b>	<b>Example of use</b>	<b>7</b>



Terralego backend app



### 1.1 Requirements

Must be installed, for the package to work:

- terracommon.terra
- template\_model
- template\_engines

### 1.2 With pip

From Pypi:

```
pip install xxxxxxxxxx-xxxxxxxxxxxx
```

From Github:

```
pip install -e https://github.com/Terralego/terra.backend.crud.git@master#egg=django-  
↪template-engines
```

### 1.3 With git

```
git clone https://github.com/Terralego/terra.backend.crud.git  
cd terra.backend.crud  
python setup.py install
```





## CHAPTER 2

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### Configuration

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In your project :

- settings

```
INSTALLED_APPS = [
    ...
    # apps required by CRUD
    'geostore', # store geographic data
    'template_model', # store template in model
    'template_engines', # generate odt and docx templates
    'rest_framework', # if you want to try api HTML interface
    'django_json_widget', # if you want to use django admin
    'reversion', # used to store every change on data (run ./manage.py_
    ↪ createinitialrevisions first)
    # CRUD app
    'terra_geocrud',
    ...
]
...
TEMPLATES = [
    ...
    # if you want to render odt templates
    {'BACKEND': 'template_engines.backends.odt.OdtEngine'},
    # if you want to render docx templates
    {'BACKEND': 'template_engines.backends.docx.DocxEngine'},
]
```

- urls

```
urlpatterns = [
    ...
    # some urls in geostore are required by geocrud
    path('api/geostore/', include('geostore.urls')),
    path('api/crud/', include('terra_geocrud.urls')),
]
```

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```
...  
]
```

You can customize default url and namespace by including `terra_geocrud.views` directly

Run migrations

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

- ADMIN :

you can disable and / or customize admin

- SETTINGS :

Waiting for settings definition directly in models.

Settings should be overridden with `TERRA_GEOCRUD` settings in your project settings file:

```
...  
TERRA_GEOCRUD = {  
    # default value for map extent. API serialize this for layer extent if there is_  
    ↪no features in it (as default)  
    'EXTENT': [-90.0, -180.0, 90.0, 180.0],  
    # default storage for file stored in json properties. It is recommended to_  
    ↪configure a private web storage in your project (as S3Storage -> see django-  
    ↪storages)  
    'DATA_FILE_STORAGE_CLASS': 'django.core.files.storage.FileSystemStorage',  
    # default mapbox style provided by api if no custom style defined in crud view  
    'STYLES': {  
        'line': {  
            'type': 'line',  
            'paint': {  
                'line-color': '#000',  
                'line-width': 3  
            }  
        },  
        'point': {  
            'type': 'circle',  
            'paint': {  
                'circle-color': '#000',  
                'circle-radius': 8  
            }  
        },  
        'polygon': {  
            'type': 'fill',  
            'paint': {  
                'fill-color': '#000'  
            }  
        },  
    },  
}  
...
```

## CHAPTER 3

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### Example of use

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- TERRA\_GEOCRUD provide its own settings url to terralego apps via

example:

```
/api/settings  
  
{  
  'CRUD': '/api/crud/settings/'  
}
```

Settings provide default config values, and formatted list of crud group and views, ready to be displayed in frontend left menu.

- There are 4 endpoint in GEOCRUD API:

:: settings/ -> get ordered menu with views classified by group or not, and basic map settings groups/ -> manage groups of CRUD views views/ -> manage CRUD views (a view creation create its associated layer) template/<template\_pk>/render/<pk>/ -> fill a template with a feature

- A command is available to create default views for each existing layer

```
./manage.py create_default_crud_views
```

- START GUIDE
- First, you need to create crud views for your geostore layers with the command or the admin.
- These views can be grouped, and will be listed by the frontend api
- Then, you can customize default layer-schema by providing your own property groups, which will groups properties as json schema nested objects.

## ADMIN

- Some classes are provided to help you to manage Crud views / groups / layers and feature through django admin.
- You need to register your wanted ModelAdmin in your project