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diemesleno / **kuehne**

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Simple Shipments API

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kuehne	Adding whitenoise	an hour ago
static	Addign statics	an hour ago
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.coveragerc	Fixing coveragerc omit directories	4 hours ago
.gitattributes	Inicial commit	2 days ago
.gitignore	Adding .vscode	2 days ago
Dockerfile	Fixing docker info	an hour ago
README.md	Updating how-to info	5 minutes ago
admin.png	Adding README images	a day ago
api_main.png	Adding README images	a day ago
docker-compose.yml	Fixing docker info	an hour ago
init.sql	Deploy files	an hour ago
manage.py	Inicial commit	2 days ago
requirements.txt	Removing unnecessary library	4 hours ago
run.sh	Deploy files	an hour ago
wait-for-it.sh	Adding Docker files	4 hours ago

README.md

Simple Shipments API Test

> Django App

Task Description

Python Developer Challenge

Please create REST API functionality to maintain a list of shipments (fields are freetext fields, up to your choice).

Requirements

- Required functionality: list, retrieve, create, update.
- Python language with utilization of Django REST framework.
- No forms should be used
- Include tests (pytest, or phpunit, or etc).

Notes

Code must be provided in a zip file.

Technologies utilized

- Python 3.6.5
- Django 2.0.7
- PostgreSQL 10+
- Docker
- Docker-Compose

Test Environment

Installation

Any Operating System with docker/docker-compose installed:

OBS: Instructions to try the app without docker/docker compose will be in the end of this file

```
a) git clone https://github.com/diemesleno/kuehne.git

b) cd kuehne

c) ./run.sh
```

How to Use it

Recomended to use Postman (https://www.getpostman.com)

Country Endpoints:

```
[GET, POST]

http://127.0.0.1:8000/api/v1/country/
GET - To get the list of countries available

Exemple of data received:

[
    {
        "id": 1,
        "name": "Brazil"
    },
    {
        "id": 2,
        "name": "Estonia"
    },
    {
        "id": 3,
        "name": "Germany"
    }
]

http://127.0.0.1:8000/api/v1/country/
POST - To create a new country

Example data to send:

{
    "name": "Paraguay"
}

Example data received:

{
    "id": 4,
    "name": "Paraguay"
}

[GET, PUT, DELETE]

http://127.0.0.1:8000/api/v1/country/<int:pk>/
GET - Get a country by pk

Example of data received:

[
    {
        "id": 1,
        "name": "Brazil"
    }
]

http://127.0.0.1:8000/api/v1/country/<int:pk>/
PUT - To Update a country

Example data to send:

{
    "name: "Estonia"
}

Example of data received:

{
    "id": 1,
    "name": "Estonia"
}

http://127.0.0.1:8000/api/v1/country/<int:pk>/
DELETE - Delete a country by pk
```

City Endpoints:

```
[GET, POST]

http://127.0.0.1:8000/api/v1/city/
GET - To get the list of cities available
```

```
Exemple of data received:

[
    {
        "id": 5,
        "country_name": "Germany",
        "name": "Berlin"
    },
    {
        "id": 6,
        "country_name": "Germany",
        "name": "Frankfurt"
    },
    {
        "id": 2,
        "country_name": "Test",
        "name": "Rio de Janeiro"
    },
    {
        "id": 1,
        "country_name": "Test",
        "name": "São Paulo"
    },
    {
        "id": 3,
        "country_name": "Estonia",
        "name": "Tallin"
    },
    {
        "id": 4,
        "country_name": "Estonia",
        "name": "Tartu"
    }
]
```

```
http://127.0.0.1:8000/api/v1/city/
POST - To create a new city

Example data to send:

{
    "name": "Ituiutaba",
    "country": 1
}

Example data received:

{
    "id": 7,
    "country_name": "Brazil",
    "name": "Ituiutaba"
}

[GET, PUT, DELETE]

http://127.0.0.1:8000/api/v1/city/<int:pk>/
GET - Get a city by pk

Example of data received:

[
    {
        "id": 7,
        "country_name": "Brazil",
        "name": "Ituiutaba"
    }
]

http://127.0.0.1:8000/api/v1/city/<int:pk>/
PUT - To Update a city
```

```
Example data to send:

{
    "name: "Tallin",
    "country: 1
}

Example of data received:

{
    "id": 7,
    "country_name", "Brazil",
    "name": "Tallin"
}

http://127.0.0.1:8000/api/v1/city/<int:pk>/
DELETE - Delete a city by pk
```

Status Endpoints:

```
[GET, POST]

http://127.0.0.1:8000/api/v1/status/
GET - To get the list of status available

Exemple of data received:

[
    {
        "id": 2,
        "name": "Delivered"
    },
    {
        "id": 1,
        "name": "In Transit"
    }
]

http://127.0.0.1:8000/api/v1/status/
POST - To create a new status

Example data to send:

{
    "name": "Missed"
}

Example data received:

{
    "id": 3,
    "name": "Missed"
}

[GET, PUT, DELETE]

http://127.0.0.1:8000/api/v1/status/<int:pk>/
GET - Get a status by pk

Example of data received:

[
    {
        "id": 1,
        "name": "In Transit"
    }
```

```
]

http://127.0.0.1:8000/api/v1/status/<int:pk>/
PUT - To Update a status

Example data to send:

{
    "name: "Possible to Delay"
}

Example of data received:

{
    "id": 1,
    "name": "Possible to Delay"
}

http://127.0.0.1:8000/api/v1/status/<int:pk>/
DELETE - Delete a status by pk
```

Shipment Endpoints:

```
[GET, POST]

http://127.0.0.1:8000/api/v1/
GET - To get the list of shipments available

Exemple of data received:

[
    {
        "object_number": "120035339828",
        "status_name": "Delivered",
        "actual_location_name": "Tallin",
        "next_location_name": "Berlin",
        "updated": "2018-07-27T15:46:33.400233Z"
    }
]

http://127.0.0.1:8000/api/v1/
POST - To create a new shipment

Example data to send:

{
        "object_number": "112233445566",
        "status": 1,
        "actual_location": 1,
        "next_location": 3
}

Example data received:

{
    "object_number": "228811995533",
    "status_name": "In Transit",
    "actual_location_name": "Tartu",
    "next_location_name": "Frankfurt",
    "updated": "2018-07-27T18:42:02.022296Z"
}

[GET, PUT, DELETE]

http://127.0.0.1:8000/api/v1/<str:object_number>
GET - Get a shipment by object_number
```

```
Example of data received:

[
    {
        "object_number": "220035339829",
        "status_name": "In Transit",
        "actual_location_name": "São Paulo",
        "next_location_name": "Tallin",
        "updated": "2018-07-27T18:39:57.765503Z"
    }
]

http://127.0.0.1:8000/api/v1/<str:object_number>/
PUT - To Update a status

Example data to send:

{
        "status": 2,
        "actual_location": 3,
        "next_location": 4
}

Example of data received:

{
    "message": "Updated with success."
}

http://127.0.0.1:8000/api/v1/<str:object_number>/
DELETE - Delete a status by pk
```

Automatic tests can be executed by

```
# In another terminal

docker-compose exec web python manage.py test
```

Adminstration Area

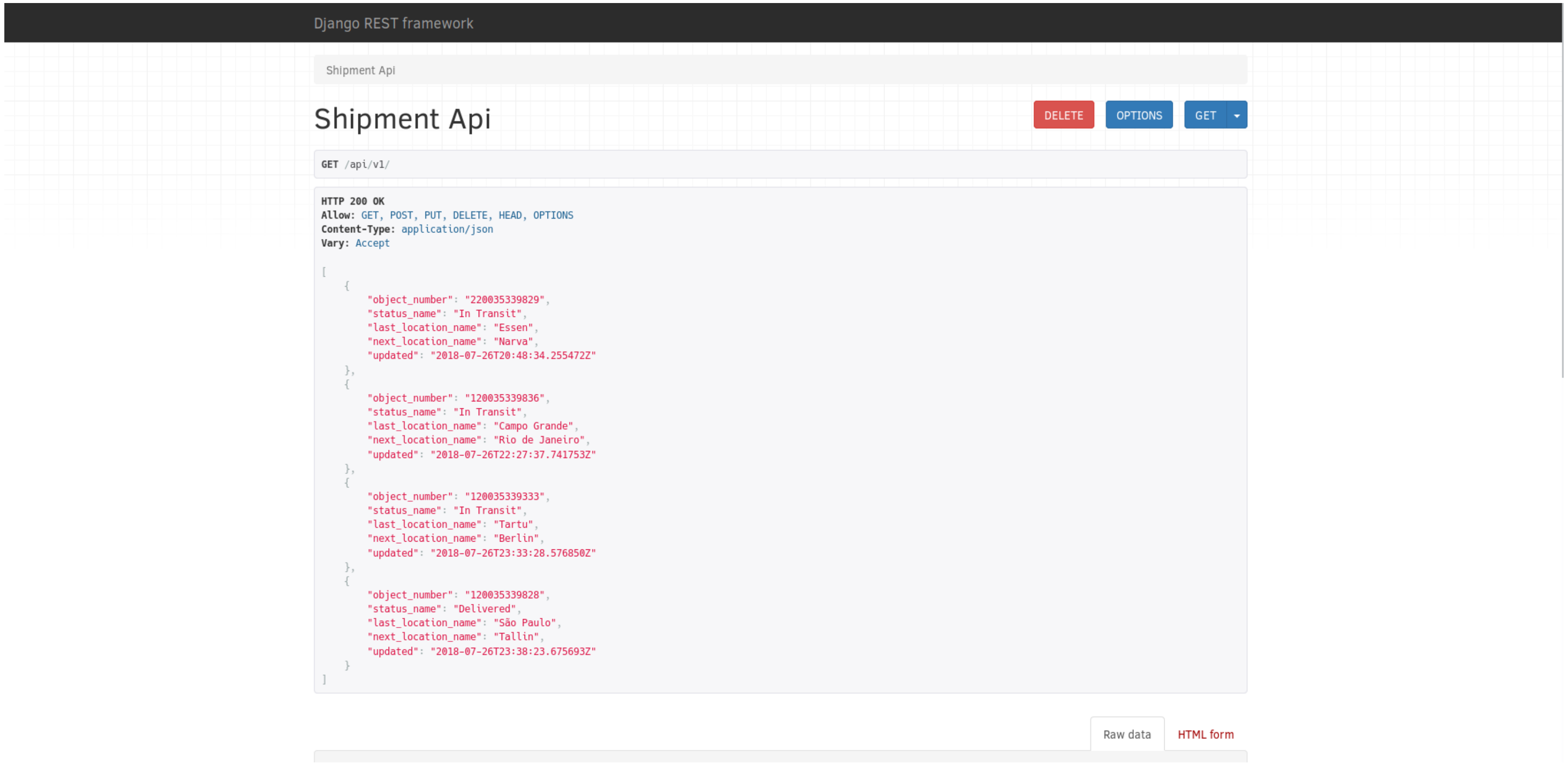
```
# Create a superuser

docker-compose exec web python manage.py createsuperuser

# Access http://127.0.0.1:8000/admin/
```

Some screenshots

Main Page



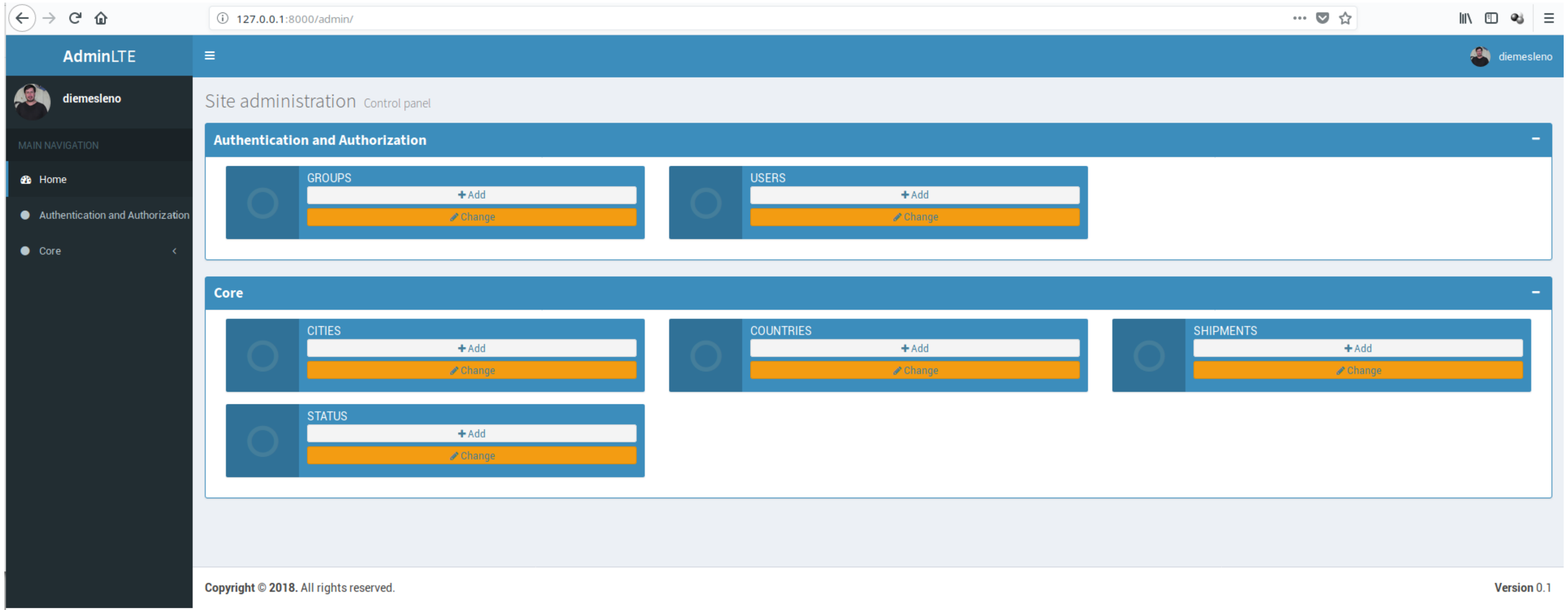
Shipment Api

```
GET /api/v1/
```

```
HTTP 200 OK
Allow: GET, POST, PUT, DELETE, HEAD, OPTIONS
Content-Type: application/json
Vary: Accept

[
    {
        "object_number": "220035339829",
        "status_name": "In Transit",
        "last_location_name": "Essen",
        "next_location_name": "Narva",
        "updated": "2018-07-26T20:48:34.255472Z"
    },
    {
        "object_number": "120035339836",
        "status_name": "In Transit",
        "last_location_name": "Campo Grande",
        "next_location_name": "Rio de Janeiro",
        "updated": "2018-07-26T22:27:37.741753Z"
    },
    {
        "object_number": "120035339333",
        "status_name": "In Transit",
        "last_location_name": "Tartu",
        "next_location_name": "Berlin",
        "updated": "2018-07-26T23:33:28.576850Z"
    },
    {
        "object_number": "120035339828",
        "status_name": "Delivered",
        "last_location_name": "São Paulo",
        "next_location_name": "Tallin",
        "updated": "2018-07-26T23:38:23.675693Z"
    }
]
```

Admin Page



Release History

- 1.0.0
  - First release
- 0.1.6
  - Fixing issues
- 0.1.5
  - Testing deployment

- 0.1.4
    - Creation of Dockerfiles
- 0.1.3
    - Preparing files to production
- 0.1.2
    - Testing Core.API
- 0.1.1
    - Testing Core
- 0.1.0
    - Development of Core Templates
- 0.0.9
    - Development of Core URLs
- 0.0.8
    - Development of Core Views
- 0.0.7
    - Development of Core.API URLs
- 0.0.6
    - Development of Core.API Views
- 0.0.5
    - Development of Core.API Serializer
- 0.0.4
    - Settings configuration
- 0.0.3
    - Application Core.API creation
- 0.0.2
    - Application core creation

- 0.0.1
    - Project creation

How to try it without Docker/Docker-Compose

```
a) git clone https://github.com/diemesleno/kuehne.git

b) cd kuehne

c) Open the kuehne/settings.py and edit the information
about the database.

d) Open the kuehne/.env and comment the production database information

e) pip3 -r requirements.txt

f) python3 manage.py migrate

g) python3 manage.py createsuperuser

h) python3 manage.py runserver

i) Access http://127.0.0.1:8000 or try it using Postman
```

Meta

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https://github.com/diemesleno/kuehne