# Django service

Due to the need to keep a more exhaustive control of the errors of all the systems it was decided to create an api that allows to save and return error reports.

currently this project is working on:

|  |
| --- |
| **https://reportmanage.candsapp.com:9000/admin/** |

# The service

It is built in Python, in its version 3.6.8, since the CentOS 7 linux servers have that version usually installed.

You can download the service from the GitLab repository:

|  |
| --- |
| **https://gitlab.com/CANDS/djangoservic e.git** |

## Start-up from 0

### How to create an on-premises sandbox

Before you can create a test environment, you must install the following:

* [Python 3.6.8](https://www.python.org/downloads/release/python-368/) (it is recommended to add the folder address to the path)
* [MongoDB](https://www.mongodb.com/docs/manual/tutorial/install-mongodb-on-windows/)

Onceinstalled ado you must download the virtualenv libraries using pip if you had a version of python already installed use pip3 or pip3.6

|  |
| --- |
| **pip install virtualenv** |

then we will create a virtual environment

|  |
| --- |
| **virtualenv nombre -p C:\Users\Luciano\AppData\Local\Programs\Python\Python36\python.exe** |

once created we must clone the aforementioned git repository within the environment, then we must enter the Scripts tent, and run the activate d file from the console

|  |
| --- |
| **./Scripts/activate** |

This will give them the name of the virtual environment they are using in parentheses at the beginning of the command line.

Then we must go to the folder of the cloned project we will find a file called "requirements.txt", we will load all thes libraries necessary for our project to work for that we write:

|  |
| --- |
| **pip install -r requirements.txt** |

It will begin to download all the necessary libraries, once the downloads are finished we must configure our connection to the local base this is done in the file "DjangoService\DjangoService\settings\local.py" if you are using Mongodb you should not changeanything otherwise accommodate the parameters with your connection data.

then we will tell the environment that we will work with the local parameters for that we will edit the following 3 files:

* DjangoService\DjangoService\asgi.py
* DjangoService\DjangoService\wsgi.py
* DjangoService\manage.py

editing the following line:

|  |
| --- |
| **os.environ.setdefault('DJANGO\_SETTINGS\_MODULE', 'DjangoService.settings.local')** |

Once this is done we must make themigrations in the database for that we write:

|  |
| --- |
| **python manage.py migrate** |

Once the migration process is finished, we must create an administrator user for the database for that we write:

|  |
| --- |
| **python manage.py createsuperuser** |

To finish we start the server with:

|  |
| --- |
| **python manage.py runserver** |

## Enrutado

### Authentication

Due to the need to expose endpoints with access to the Mongodb database , an authentication system was developed through tokens in Python and Django, this uses the  [authtoken](https://www.django-rest-framework.org/api-guide/authentication/) [rest framework](https://www.django-rest-framework.org/api-guide/authentication/) library which handles this system perfectly. Which leads us to have an authentication route:

***Tables:*** auth\_user, authtoken\_token

***Path:*** domain/auth/api/login\_check/

***Allowed Actions:*** POST

***Formato de respuest:*** JSON

#### Test Built URL

|  |
| --- |
| **http://reportmanage.candsapp.com:9000/auth/api/login\_check/** |

#### Parameters

|  |
| --- |
| **{**  **"username":"admin",**  **"password":"123456"**  **}** |

#### Returned json format

|  |
| --- |
| **{**  **"token": "7f0a33a9c6bba9d34ec0befba51750f8dd96b575"**  **}** |

All of the following paths are blocked so that they can only be used if the token was passed to you in the header as follows:

#### Authentication format

|  |
| --- |
| **Authorization: Token 7f0a33a9c6bba9d34ec0befba51750f8dd96b575** |

### **Reports**

#### **Get report**

***Tables:*** reportManage\_report

***Path:*** domain/reports/

***Allowed Actions:*** GET

***Response format:*** JSON

**Test Built URL**

|  |
| --- |
| **http://reportmanage.candsapp.com:9000/reports/** |

**Returned json**  format

|  |
| --- |
| **[**  **{**  **"id": 6,**  **"plant": "1339",**  **"program": "Newsyncpro",**  **"date\_start": "2022-09-05T14:35:06.163000Z",**  **"delay": "00:01:06",**  **"report\_status": "GOOD",**  **"msg": "0|1",**  **"msg\_type": "SUCCESS",**  **"stack\_trace": "MSG"**  **}**  **]** |

#### **Create report**

***Tables:*** reportManage\_report

***Path:*** domain/reports/create

***Allowed Actions:*** POST

***Formato de respuest:*** JSON

**Test Built URL**

|  |
| --- |
| **http://reportmanage.candsapp.com:9000/reports/create** |

**Parameters**

|  |
| --- |
| **{**  **"Apollo": [**  **{**  **"plant": "1339",**  **"program": "Newsyncpro",**  **"date\_start": "2022-09-05T14:35:06.163",**  **"delay": "00:01:06",**  **"report\_status": "GOOD",**  **"msg": "0|1",**  **"msg\_type": "SUCCESS",**  **"stack\_trace": "MSG"**  **}**  **]**  **}** |

**Returned json**  format

|  |
| --- |
| **[**  **{**  **"id": 6,**  **"plant": "1339",**  **"program": "Newsyncpro",**  **"date\_start": "2022-09-05T14:35:06.163000Z",**  **"delay": "00:01:06",**  **"report\_status": "GOOD",**  **"msg": "0|1",**  **"msg\_type": "SUCCESS",**  **"stack\_trace": "MSG"**  **}**  **]** |

#### **Get report by site**

***Tables:*** reportManage\_report

***Path:*** domain/reports/<site>

***Allowed Actions:*** GET

***Response format:*** JSON

**Test Built URL**

|  |
| --- |
| **http://reportmanage.candsapp.com:9000/reports/1339** |

**Returned json**  format

|  |
| --- |
| **[**  **{**  **"id": 6,**  **"plant": "1339",**  **"program": "Newsyncpro",**  **"date\_start": "2022-09-05T14:35:06.163000Z",**  **"delay": "00:01:06",**  **"report\_status": "GOOD",**  **"msg": "0|1",**  **"msg\_type": "SUCCESS",**  **"stack\_trace": "MSG"**  **}**  **]** |

#### **Get report by data range**

***Tables:*** reportManage\_report

***Path:*** domain/reports/<site>/<since>/<to\_date>/

***Allowed Actions:*** GET

***Response format:*** JSON

**Test Built URL**

|  |
| --- |
| **http://reportmanage.candsapp.com:9000/reports/1339/2022-09-05T14:35:06/2022-09-05T14:35:06** |

**Json devuelto format**

|  |
| --- |
| **[**  **{**  **"id": 6,**  **"plant": "1339",**  **"program": "Newsyncpro",**  **"date\_start": "2022-09-05T14:35:06.163000Z",**  **"delay": "00:01:06",**  **"report\_status": "GOOD",**  **"msg": "0|1",**  **"msg\_type": "SUCCESS",**  **"stack\_trace": "MSG"**  **}**  **]** |

### **sequence delay**

#### **Get sequense delay**

***Tables:*** reportManage\_sequencedelay

***Path:*** domain/sequence\_delay/

***Allowed Actions:*** GET

***Response format:*** JSON

**Test Built URL**

|  |
| --- |
| **http://reportmanage.candsapp.com:9000/sequence\_delay/** |

**Returned json**  format

|  |
| --- |
| **[**  **{**  **"id": 13,**  **"plant": "1339",**  **"program": "Newsyncpro",**  **"seq": "lhlgkqwkeg'weg",**  **"delay": "00:03:06",**  **"report": 5**  **}**  **]** |

#### 

#### **Get report by report id**

***Tables:*** reportManage\_sequencedelay

***Path:*** domain/sequence\_delay/<report\_id>

***Allowed Actions:*** GET

***Response format:*** JSON

**Test Built URL**

|  |
| --- |
| **http://reportmanage.candsapp.com:9000/sequence\_delay/5** |

**Returned json**  format

|  |
| --- |
| **[**  **{**  **"id": 13,**  **"plant": "1339",**  **"program": "Newsyncpro",**  **"seq": "lhlgkqwkeg'weg",**  **"delay": "00:03:06",**  **"report": 5**  **}**  **]** |

#### **Get report by seq\_id since to**

***Tables:*** reportManage\_sequencedelay

***Path:*** domain/sequence\_delay/sequence/since/<since>/to/<to\_sequence>

***Allowed Actions:*** GET

***Response format:*** JSON

**Test Built URL**

|  |
| --- |
| **http://reportmanage.candsapp.com:9000/sequence\_delay/sequence/since/206550292/to/206550292** |

**Returned json**  format

|  |
| --- |
| **[**  **{**  **"id": 1,**  **"plant": "0787",**  **"program": "Newsyncpro",**  **"seq": "206550292",**  **"extraction\_type": "GET",**  **"report\_id": 5567,**  **"delay": "00:01:00"**  **}**  **]** |

#### **Get report by seq\_id since**

***Tables:*** reportManage\_sequencedelay

***Path:*** domain/sequence\_delay/sequence/since/<since>

***Allowed Actions:*** GET

***Response format:*** JSON

**Test Built URL**

|  |
| --- |
| **http://reportmanage.candsapp.com:9000/sequence\_delay/sequence/since/206550292** |

**Returned json**  format

|  |
| --- |
| **[**  **{**  **"id": 1,**  **"plant": "0787",**  **"program": "Newsyncpro",**  **"seq": "206550292",**  **"extraction\_type": "GET",**  **"report\_id": 5567,**  **"delay": "00:01:00"**  **}**  **]** |

#### **Get report by seq\_id to**

***Tables:*** reportManage\_sequencedelay

***Path:*** domain/sequence\_delay/sequence/since/<since>

***Allowed Actions:*** GET

***Response format:*** JSON

**Test Built URL**

|  |
| --- |
| **http://reportmanage.candsapp.com:9000/sequence\_delay/sequence/to/206550292** |

**Returned json**  format

|  |
| --- |
| **[**  **{**  **"id": 1,**  **"plant": "0787",**  **"program": "Newsyncpro",**  **"seq": "206550292",**  **"extraction\_type": "GET",**  **"report\_id": 5567,**  **"delay": "00:01:00"**  **}**  **]** |

#### **Get report by seq\_id to**

***Tables:*** reportManage\_sequencedelay

***Path:*** domain/sequence\_delay/sequence/<sequence>

***Allowed Actions:*** GET

***Response format:*** JSON

**Test Built URL**

|  |
| --- |
| **http://reportmanage.candsapp.com:9000/sequence\_delay/sequence/206550292** |

**Returned json**  format

|  |
| --- |
| **[**  **{**  **"id": 1,**  **"plant": "0787",**  **"program": "Newsyncpro",**  **"seq": "206550292",**  **"extraction\_type": "GET",**  **"report\_id": 5567,**  **"delay": "00:01:00"**  **},**  **{**  **"id": 1,**  **"plant": "0787",**  **"program": "Newsyncpro",**  **"seq": "206550292",**  **"extraction\_type": "SET",**  **"report\_id": 5567,**  **"delay": "00:01:00"**  **}**  **]** |

#### 

#### **Create report sequence delay**

***Tables:*** reportManage\_sequencedelay

***Path:*** domain/sequence\_delay/create/<report\_id>

***Allowed Actions:*** POST

***Response format:*** JSON

**Test Built URL**

|  |
| --- |
| **http://reportmanage.candsapp.com:9000/sequence\_delay/create/5** |

**Parameters**

|  |
| --- |
| **{**  **"Apollo": [**  **{**  **"plant": "1339",**  **"program": "Newsyncpro",**  **"delay": "00:03:06",**  **"seq":"lhlgkqwkeg'weg"**  **}**  **]**  **}** |

**Returned json**  format

|  |
| --- |
| **[**  **{**  **"id": 13,**  **"plant": "1339",**  **"program": "Newsyncpro",**  **"seq": "lhlgkqwkeg'weg",**  **"delay": "00:03:06",**  **"report": 5**  **}**  **]** |

### **ASNs**

#### **Get ASNs**

***Tables:*** asns\_asn

***Path:*** domain/asns/

***Allowed Actions:*** GET

***Response format:*** JSON

**Test Built URL**

|  |
| --- |
| **http://reportmanage.candsapp.com:9000/asns/** |

**Returned json**  format

|  |
| --- |
| **[**  **{**  **"id": 161,**  **"tt\_site": "0787",**  **"tt\_Asn": "S13091335",**  **"tt\_date": "2022-08-31T17:29:41.073000Z",**  **"tt\_program": "AsnCheck"**  **}**  **]** |

#### **Create ASNs**

***Tables:*** asns\_asn

***Path:*** domain/asns/create

***Allowed Actions:*** POST

***Response format:*** JSON

**Test Built URL**

|  |
| --- |
| **http://reportmanage.candsapp.com:9000/asns/create** |

**Parameters**

|  |
| --- |
| **{**  **"Apollo": [**  **{**  **"tt\_site": "0787",**  **"tt\_Asn": "s87201469",**  **"tt\_date": "2022-08-30T12:35:21.000",**  **"tt\_program": "Newsyncpro"**  **},**  **{**  **"tt\_site": "0787",**  **"tt\_Asn": "SBC025268",**  **"tt\_date": "2022-08-30T12:35:21.000",**  **"tt\_program": "Newsyncpro"**  **}**  **]**  **}** |

**Returned json**  format

|  |
| --- |
| **[**  **{**  **"id": 162,**  **"tt\_site": "0787",**  **"tt\_Asn": "s87201469",**  **"tt\_date": "2022-08-30T12:35:21.000",**  **"tt\_program": "Newsyncpro"**  **}**  **]** |

#### **Get ASNs by program**

***Tables:*** asns\_asn

***Path:*** domain/asns/asn/<site>/<program>/

***Allowed Actions:*** GET

***Response format:*** JSON

**Test Built URL**

|  |
| --- |
| **http://reportmanage.candsapp.com:9000/asns/asn/0787/AsnCheck/** |

**Returned json**  format

|  |
| --- |
| **[**  **{**  **"id": 161,**  **"tt\_site": "0787",**  **"tt\_Asn": "S13091335",**  **"tt\_date": "2022-08-31T17:29:41.073000Z",**  **"tt\_program": "AsnCheck"**  **}**  **]** |

#### 

#### **Get ASNs by ASN ID**

***Tables:*** asns\_asn

***Path:*** domain/asns/asn/asn/<id>/

***Allowed Actions:*** GET

***Response format:*** JSON

**Test Built URL**

|  |
| --- |
| **http://reportmanage.candsapp.com:9000/asns/asn/asn/S13091335/** |

**Returned json**  format

|  |
| --- |
| **[**  **{**  **"id": 161,**  **"tt\_site": "0787",**  **"tt\_Asn": "S13091335",**  **"tt\_date": "2022-08-31T17:29:41.073000Z",**  **"tt\_program": "AsnCheck"**  **}**  **]** |

#### **Get ASNs by data range**

***Tables:*** asns\_asn

***Path:*** domain/asns/<site>/<since>/<to\_date>/

***Allowed Actions:*** GET

***Response format:*** JSON

**Test Built URL**

|  |
| --- |
| **http://reportmanage.candsapp.com:9000/asns/0787/2022-08-31T17:29:41/2022-08-31T17:29:41/** |

**Returned json**  format

|  |
| --- |
| **[**  **{**  **"id": 161,**  **"tt\_site": "0787",**  **"tt\_Asn": "S13091335",**  **"tt\_date": "2022-08-31T17:29:41.073000Z",**  **"tt\_program": "AsnCheck"**  **}**  **]** |

#### 

#### **Get ASNs by site**

***Tables:*** asns\_asn

***Path:*** domain/asns/<site>/

***Allowed Actions:*** GET

***Response format:*** JSON

**Test Built URL**

|  |
| --- |
| **http://reportmanage.candsapp.com:9000/asns/0787** |

**Returned json**  format

|  |
| --- |
| **[**  **{**  **"id": 161,**  **"tt\_site": "0787",**  **"tt\_Asn": "S13091335",**  **"tt\_date": "2022-08-31T17:29:41.073000Z",**  **"tt\_program": "AsnCheck"**  **}**  **]** |