



Django Project Test Report

Haoran Guo
13/Aug/2023

Application Setup

```
haoran.guo at diannao in ~/Projects/GitHub/djangoProject
o source venv/bin/activate

(venv)
```

```
haoran.guo at diannao in ~/Projects/GitHub/djangoProject
(venv) o pip install django
Collecting django
  Obtaining dependency information for django from https://files.pythonhosted.org/packages/72/7e/fc6bab255ae10bc57fa2f6564eeace3d5405fbb7f5678b9b148052d1db0f/Django-4.2.4-py3-none-any.whl.metadata
  Downloading Django-4.2.4-py3-none-any.whl.metadata (4.1 kB)
Collecting asgiref<4,>=3.6.8 (from django)
  Obtaining dependency information for asgiref<4,>=3.6.8 from https://files.pythonhosted.org/packages/9b/89/c9081a4e07ad21958fcd8ffc89232711b4e418c15ca7a392a17384bbeef/asgiref-3.7.2-py3-none-any.whl.metadata
  Downloading asgiref-3.7.2-py3-none-any.whl.metadata (9.2 kB)
Collecting sqlparse>=0.3.1 (from django)
  Using cached sqlparse-0.4.4-py3-none-any.whl (41 kB)
Collecting typing-extensions>=4 (from asgiref<4,>=3.6.8->django)
  Obtaining dependency information for typing-extensions>=4 from https://files.pythonhosted.org/packages/ec/bb/63cc3df74987c36fe26157ee12a9e8f9b4de771e0f34b4263117a79b9b9/typing_extensions-4.7.1-py3-none-any.whl.metadata
  Downloading typing_extensions-4.7.1-py3-none-any.whl.metadata (3.1 kB)
Using cached Django-4.2.4-py3-none-any.whl (8.0 MB)
Using cached asgiref-3.7.2-py3-none-any.whl (24 kB)
Using cached typing_extensions-4.7.1-py3-none-any.whl (33 kB)
Installing collected packages: typing-extensions, sqlparse, asgiref, django
Successfully installed asgiref-3.7.2 django-4.2.4 sqlparse-0.4.4 typing-extensions-4.7.1
(venv)
```

```
haoran.guo at diannao in ~/Projects/GitHub/djangoProject
(venv) o python manage.py mycommand ./DTC52595151235828891508810.uff
{"an_mpan": "120803103987", "state": "V", "meter_serial_number": "F75A 08082", "reading_type": "D", "meter_register_id": "S", "reading_date_time": "20160222080800", "register_reading": "56311.0", "meter_reading_flag": "1", "reading_method": "N"}, {"an_mpan": "1908081059816", "state": "V", "meter_serial_number": "595103287", "reading_type": "C", "meter_register_id": "T0", "reading_date_time": "20160224080800", "register_reading": "81641.0", "meter_reading_flag": "1", "reading_method": "N"}, {"an_mpan": "120803197428", "state": "V", "meter_serial_number": "L89A 28596", "reading_type": "C", "meter_register_id": "S", "reading_date_time": "20160226080800", "register_reading": "68982.0", "meter_reading_flag": "1", "reading_method": "N"}, {"an_mpan": "1208031039874", "state": "V", "meter_serial_number": "576A 13884", "reading_type": "C", "meter_register_id": "S", "reading_date_time": "20160226080800", "register_reading": "17393.0", "meter_reading_flag": "1", "reading_method": "N"}, {"an_mpan": "1591855549625", "state": "V", "meter_serial_number": "D03L80840", "reading_type": "C", "meter_register_id": "A1", "reading_date_time": "20160301000000", "register_reading": "50346.0", "meter_reading_flag": "1", "reading_method": "N"}, {"an_mpan": "2208031930792", "state": "V", "meter_serial_number": "S85024767", "reading_type": "C", "meter_register_id": "02", "reading_date_time": "20160301080800", "register_reading": "66472.0", "meter_reading_flag": "1", "reading_method": "N"}, {"an_mpan": "2208031930792", "state": "V", "meter_serial_number": "S85024767", "reading_type": "C", "meter_register_id": "02", "reading_date_time": "20160301080800", "register_reading": "66472.0", "meter_reading_flag": "1", "reading_method": "N"}, {"an_mpan": "1208032644856", "state": "V", "meter_serial_number": "083A 09956", "reading_type": "D", "meter_register_id": "S", "reading_date_time": "20160221080800", "register_reading": "77766.0", "meter_reading_flag": "1", "reading_method": "N"}, {"an_mpan": "1908089268419", "state": "V", "meter_serial_number": "D0248417", "reading_type": "D", "meter_register_id": "T0", "reading_date_time": "20160222080800", "register_reading": "24882.0", "meter_reading_flag": "1", "reading_method": "N"}, {"an_mpan": "1013044353630", "state": "V", "meter_serial_number": "S82E842896", "reading_type": "C", "meter_register_id": "01", "reading_date_time": "20160228080800", "register_reading": "88285.0", "meter_reading_flag": "1", "reading_method": "N"}, {"an_mpan": "1908085281728", "state": "V", "meter_serial_number": "36933684", "reading_type": "D", "meter_register_id": "N1", "reading_date_time": "20160222080800", "register_reading": "15549.0", "meter_reading_flag": "1", "reading_method": "N"}, {"an_mpan": "1908085281728", "state": "V", "meter_serial_number": "36933684", "reading_type": "D", "meter_register_id": "N1", "reading_date_time": "20160222080800", "register_reading": "15549.0", "meter_reading_flag": "1", "reading_method": "N"}]
```

```
haoran.guo at diannao in ~/Projects/GitHub/djangoProject
(venv) o python manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).
August 13, 2023 - 09:41:04
Django version 4.2.4, using settings 'djangoProject.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CONTROL-C.

[13/Aug/2023 09:41:14] "GET / HTTP/1.1" 200 1399
[13/Aug/2023 09:41:17] "GET /search/?an_mpan=1908081059816&meter_serial_number= HTTP/1.1" 200 1792
[13/Aug/2023 09:41:20] "GET /search/?an_mpan=&meter_serial_number=S85024767 HTTP/1.1" 200 2177
[13/Aug/2023 09:41:25] "GET /search/?an_mpan=2208031930792&meter_serial_number=F75A+08082 HTTP/1.1" 200 1475
[13/Aug/2023 09:41:28] "GET /search/?an_mpan=1908081059816&meter_serial_number=S85024767 HTTP/1.1" 200 1475
```



Search for the reading values and dates

Basic Functionality

Get result from MPAN value:

Search for the reading values and dates

1900001059816	Input meter serial number	search
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Search for the reading values and dates

Input MPAN	Input meter serial number	search
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- **Register Reading:** 81641.0
- **Reading Date & Time:** 2016-02-24 00:00:00
- **FileName of the flow file:** DTC5259515123502080915D0010.uff

Get result from meter serial number value:

Search for the reading values and dates

Input MPAN	S85D24767	search
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Search for the reading values and dates

Input MPAN	Input meter serial number	search
------------	---------------------------	--------

- **Register Reading:** 64472.0
- **Reading Date & Time:** 2016-03-01 00:00:00
- **FileName of the flow file:** DTC5259515123502080915D0010.uff
- **Register Reading:** 64472.0
- **Reading Date & Time:** 2016-03-01 00:00:00
- **FileName of the flow file:** DTC5259515123502080915D0010.uff

Get result from both MPAN and meter serial number values:

Search for the reading values and dates

Search for the reading values and dates

- **Register Reading:** 56311.0
- **Reading Date & Time:** 2016-02-22 00:00:00
- **FileName of the flow file:** DTC5259515123502080915D0010.uff

Get result from wrong value:

Search for the reading values and dates

Search for the reading values and dates

- Not found required data.

Multi Files Upload

python manage.py mycommand ./DTC5259515123502080915D0010.uff ./test.uff

```
haoran.guo at diannaio in ~/Projects/GitHub/djangoProject
(venv) o python manage.py mycommand ./DTC5259515123502080915D0010.uff ./test.uff
The file has already been loaded and does not need to be reloaded.
[{"an_mpan": "1200023305967", "state": "V", "meter_serial_number": "F75A 00802", "reading_type": "D", "meter_register_id": "S", "reading_date_time": "20160222000000", "register_reading": "56311.0", "meter_reading_flag": "T", "reading_method": "N"}, {"an_mpan": "1908001059816", "state": "V", "meter_serial_number": "S95105287", "reading_type": "C", "meter_register_id": "T0", "reading_date_time": "20160222000000", "register_reading": "81641.0", "meter_reading_flag": "T", "reading_method": "N"}, {"an_mpan": "1208033197420", "state": "V", "meter_serial_number": "L85A 28596", "reading_type": "C", "meter_register_id": "S", "reading_date_time": "20160222000000", "register_reading": "68902.0", "meter_reading_flag": "T", "reading_method": "N"}, {"an_mpan": "1208031039874", "state": "V", "meter_serial_number": "S76A 13884", "reading_type": "C", "meter_register_id": "S", "reading_date_time": "20160222000000", "register_reading": "17393.0", "meter_reading_flag": "T", "reading_method": "N"}, {"an_mpan": "15925", "state": "V", "meter_serial_number": "D03180840", "reading_type": "C", "meter_register_id": "A1", "reading_date_time": "20160301000000", "register_reading": "50548.0", "meter_reading_flag": "T", "reading_method": "N"}, {"an_mpan": "2208031930792", "state": "V", "meter_serial_number": "S85024767", "reading_type": "C", "meter_register_id": "02", "reading_date_time": "20160301000000", "register_reading": "64472.0", "meter_reading_flag": "T", "reading_method": "N"}, {"an_mpan": "2208031930792", "state": "V", "meter_serial_number": "S85024767", "reading_type": "C", "meter_register_id": "02", "reading_date_time": "20160301000000", "register_reading": "64472.0", "meter_reading_flag": "T", "reading_method": "N"}, {"an_mpan": "1208022664056", "state": "V", "meter_serial_number": "D03A 09936", "reading_type": "D", "meter_register_id": "S", "reading_date_time": "20160222000000", "register_reading": "77766.0", "meter_reading_flag": "T", "reading_method": "N"}, {"an_mpan": "1908005260419", "state": "V", "meter_serial_number": "D0248417", "reading_type": "D", "meter_register_id": "T0", "reading_date_time": "20160222000000", "register_reading": "24802.0", "meter_reading_flag": "T", "reading_method": "N"}, {"an_mpan": "1013044353630", "state": "V", "meter_serial_number": "S82E042896", "reading_type": "C", "meter_register_id": "01", "reading_date_time": "20160222000000", "register_reading": "88285.0", "meter_reading_flag": "T", "reading_method": "N"}, {"an_mpan": "1908005201720", "state": "V", "meter_serial_number": "36933604", "reading_type": "D", "meter_register_id": "NT", "reading_date_time": "20160222000000", "register_reading": "15549.0", "meter_reading_flag": "T", "reading_method": "N"}, {"an_mpan": "1908005201720", "state": "V", "meter_serial_number": "36933604", "reading_type": "D", "meter_register_id": "NT", "reading_date_time": "20160222000000", "register_reading": "15549.0", "meter_reading_flag": "T", "reading_method": "N"}]
```

Search for the reading values and dates

Search for the reading values and dates

- **Register Reading:** 56311.0
- **Reading Date & Time:** 2016-02-22 00:00:00
- **FileName of the flow file:** DTC5259515123502080915D0010.uff

- **Register Reading:** 56311.0
- **Reading Date & Time:** 2016-02-22 00:00:00
- **FileName of the flow file:** test.uff

Search for the reading values and dates

Search for the reading values and dates

- **Register Reading:** 81641.0
- **Reading Date & Time:** 2016-02-24 00:00:00
- **FileName of the flow file:** DTC5259515123502080915D0010.uff

- **Register Reading:** 81641.0
- **Reading Date & Time:** 2016-02-24 00:00:00
- **FileName of the flow file:** test.uff

Search for the reading values and dates

Search for the reading values and dates

- **Register Reading:** 56311.0
- **Reading Date & Time:** 2016-02-22 00:00:00
- **FileName of the flow file:** DTC5259515123502080915D0010.uff

- **Register Reading:** 56311.0
- **Reading Date & Time:** 2016-02-22 00:00:00
- **FileName of the flow file:** test.uff

Duplicated Files Upload

python manage.py mycommand ./DTC5259515123502080915D0010.uff
./DTC5259515123502080915D0010.uff

```
(venv) [haoran.guo@diannao:~/Projects/GitHub/djangoProject]
% python manage.py mycommand ./DTC5259515123502080915D0010.uff ./DTC5259515123502080915D0010.uff
[{"an_mpan": "120802305967", "state": "V", "meter_serial_number": "F75A 08802", "reading_type": "D", "meter_register_id": "S", "reading_date_time": "20160222080800", "register_reading": "56311.0",
"meter_reading_flag": "T", "reading_method": "N"}, {"an_mpan": "1908001859816", "state": "V", "meter_serial_number": "S95105287", "reading_type": "C", "meter_register_id": "T0", "reading_date_time":
"20160224080800", "register_reading": "81641.0", "meter_reading_flag": "T", "reading_method": "N"}, {"an_mpan": "1208033197420", "state": "V", "meter_serial_number": "L85A 28596", "reading_type":
"C", "meter_register_id": "S", "reading_date_time": "20160226080800", "register_reading": "68902.0", "meter_reading_flag": "T", "reading_method": "N"}, {"an_mpan": "1208031039874", "state": "V",
"meter_serial_number": "S76A 13884", "reading_type": "C", "meter_register_id": "S", "reading_date_time": "20160226080800", "register_reading": "17393.0", "meter_reading_flag": "T", "reading_method":
"N"}, {"an_mpan": "1591055549625", "state": "V", "meter_serial_number": "D03L80840", "reading_type": "C", "meter_register_id": "A1", "reading_date_time": "20160301000800", "register_reading": "50
548.0", "meter_reading_flag": "T", "reading_method": "N"}, {"an_mpan": "2208031930792", "state": "V", "meter_serial_number": "S85024767", "reading_type": "C", "meter_register_id": "02", "reading_da
te_time": "20160301000800", "register_reading": "64472.0", "meter_reading_flag": "T", "reading_method": "N"}, {"an_mpan": "2208031930792", "state": "V", "meter_serial_number": "S85024767", "reading
_type": "C", "meter_register_id": "02", "reading_date_time": "20160301000800", "register_reading": "64472.0", "meter_reading_flag": "T", "reading_method": "N"}, {"an_mpan": "1208022664056", "state":
"V", "meter_serial_number": "D03A 09936", "reading_type": "D", "meter_register_id": "S", "reading_date_time": "20160221000800", "register_reading": "77766.0", "meter_reading_flag": "T", "reading_
method": "N"}, {"an_mpan": "1908005260419", "state": "V", "meter_serial_number": "D0248417", "reading_type": "D", "meter_register_id": "T0", "reading_date_time": "20160222080800", "register_reading":
"24802.0", "meter_reading_flag": "T", "reading_method": "N"}, {"an_mpan": "1013044353630", "state": "V", "meter_serial_number": "S82E042896", "reading_type": "C", "meter_register_id": "01", "rea
ding_date_time": "20160228080800", "register_reading": "88285.0", "meter_reading_flag": "T", "reading_method": "N"}, {"an_mpan": "1908005281720", "state": "V", "meter_serial_number": "36933604", "r
eading_type": "D", "meter_register_id": "NT", "reading_date_time": "20160222080800", "register_reading": "15549.0", "meter_reading_flag": "T", "reading_method": "N"}, {"an_mpan": "1908005281720", "
state": "V", "meter_serial_number": "36933604", "reading_type": "D", "meter_register_id": "NT", "reading_date_time": "20160222080800", "register_reading": "15549.0", "meter_reading_flag": "T", "rea
ding_method": "N"}]
The file has already been loaded and does not need to be reloaded.
(venv) [haoran.guo@diannao:~/Projects/GitHub/djangoProject]
%
```