



JWT Authentication with Django REST Framework

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[JSON Web Token](#) is an open standard for securely transferring data within parties using a JSON object. JWT is used for stateless authentication mechanisms for users and providers, this means maintaining session is on the client-side instead of storing sessions on the server. Here, we will implement the JWT authentication system in Django.

Modules required :

- django : [Django Installation](#)
- djangorestframework-simplejwt :

```
pip install djangorestframework-simplejwt
```

Basic setup :

Start a project by the following command –

```
django-admin startproject config
```

Change directory to project config –

```
cd config
```

Start the server- Start the server by typing following command in terminal –

```
python manage.py runserver
```

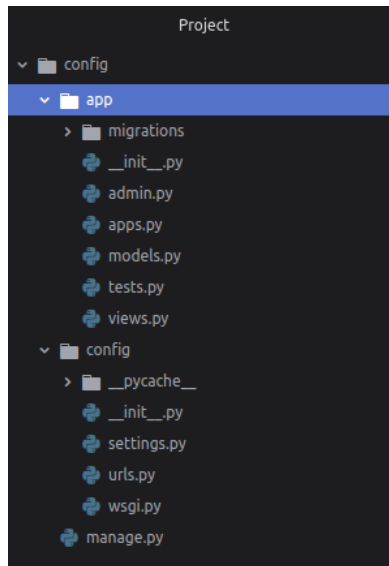
To check whether the server is running or not go to a web browser and enter *http://127.0.0.1:8000/* as URL.

Now stop the server by pressing

```
ctrl-c
```

Let's create an app now called the "app".

```
python manage.py startapp app
```



adding configuration to settings.py file :

open settings.py file in config folder and add configuration.

```
REST_FRAMEWORK = {
    'DEFAULT_AUTHENTICATION_CLASSES': [
        'rest_framework_simplejwt.authentication.JWTAuthentication',
    ],
}
```

edit urls.py file

open urls.py in config folder

```
from django.urls import path, include
from rest_framework_simplejwt import views as jwt_views

urlpatterns = [
    path('api/token/',
        jwt_views.TokenObtainPairView.as_view(),
        name='token_obtain_pair'),
    path('api/token/refresh/',
        jwt_views.TokenRefreshView.as_view(),
        name='token_refresh'),
    path('', include('app.urls')),
]
```

edit views.py

open views.py in app folder and make a API view

```
from rest_framework.views import APIView
from rest_framework.response import Response
from rest_framework.permissions import IsAuthenticated

class HelloView(APIView):
    permission_classes = (IsAuthenticated, )

    def get(self, request):
        content = {'message': 'Hello, GeeksforGeeks'}
        return Response(content)
```

edit urls.py

create a urls.py in app folder and edit it

```
from django.urls import path
from . import views

urlpatterns = [
    path('hello/', views.HelloView.as_view(), name='hello'),
]
```

Usage :

To make an HTTP request we have used HTTPie, to install it.

```
$ sudo apt install httpie
```

A terminal window with a dark background. The prompt is 'spider@spider: ~'. The user enters 'sudo apt install httpie'. The output shows the package lists being read, the dependency tree being built, and state information being read. It confirms that httpie is already the newest version (0.9.8-2) and that no packages need to be upgraded, removed, or installed.

```
spider@spider: ~
File Edit View Search Terminal Help
spider@spider:~ ~> sudo apt install httpie
Reading package lists... Done
Building dependency tree
Reading state information... Done
httpie is already the newest version (0.9.8-2).
0 upgraded, 0 newly installed, 0 to remove and 5 not upgraded.
spider@spider:~ ~> |
```

Step 1 :

migrate project, create a superuser and runserver


```

spider@spider: ~
File Edit View Search Terminal Help

spider@spider:~ -> http http://127.0.0.1:4000/hello/ "Authorization: Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJ0b2
lb190eXB1IjoieYWNmZjZlbnVlZGkiOiJzZWYwNDgzOTY3NjE0ZDg5YmFjMjBiMTBjMDlkMmYwOCIsInVzZXJfaWQiOiJfJ9.gt
rUpyPQI8W2K2T22NhcgVZGFTyLN1UL7uqJ0KNFOY"
HTTP/1.1 200 OK
Allow: GET, HEAD, OPTIONS
Content-Length: 34
Content-Type: application/json
Date: Sun, 19 Apr 2020 06:52:34 GMT
Server: WSGIServer/0.2 CPython/3.6.9
Vary: Accept
X-Content-Type-Options: nosniff
X-Frame-Options: DENY

{
  "message": "Hello, GeeksforGeeks"
}

spider@spider:~ -> |

```

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