

GraphQL API Example

- Django graphene -

This material is for specific students, since 2000 by GNC.

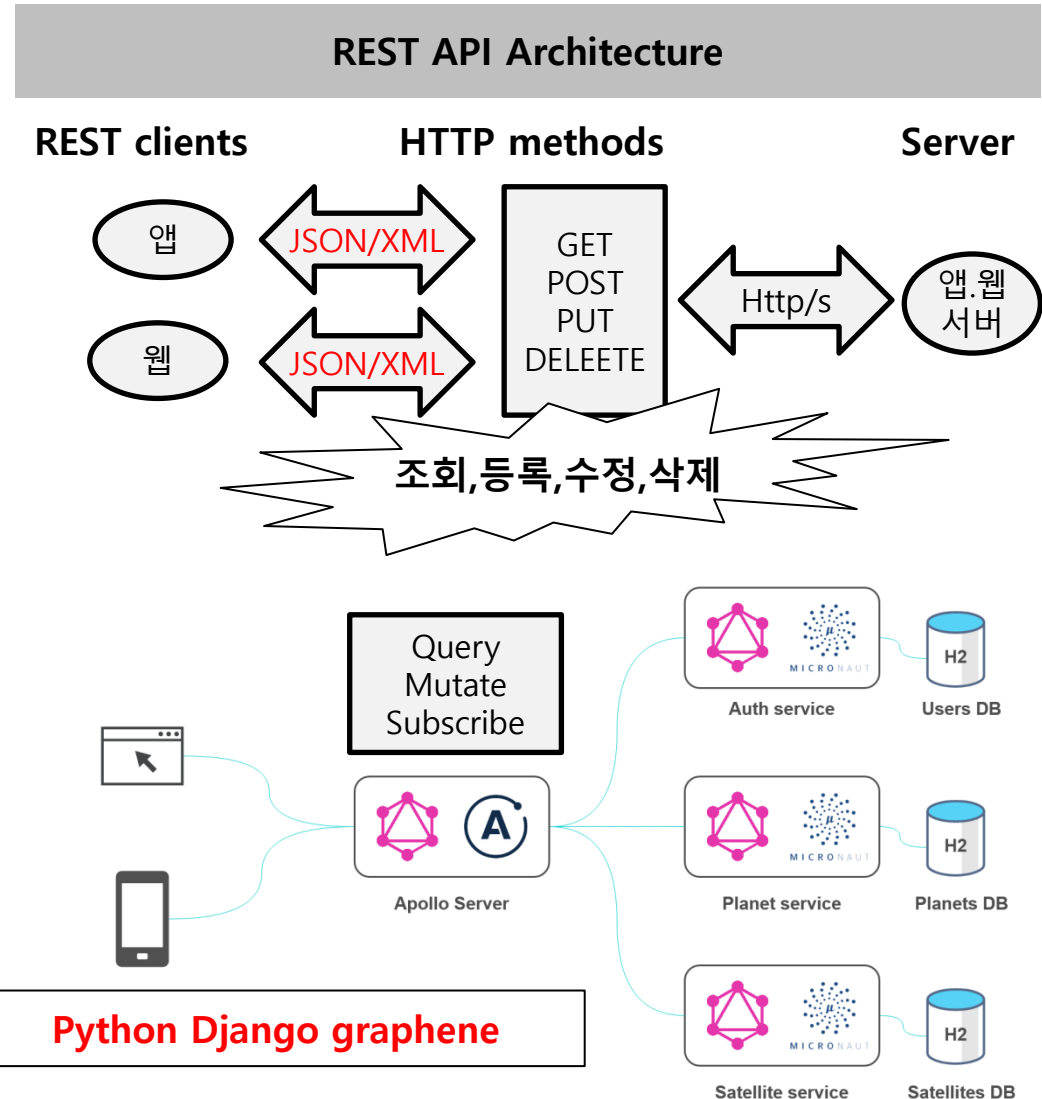
빅데이터 시대, 21세기의 원유

“데이터는 흐르는 것” DataOPS API기반 개발 Trend 빅데이터 개방과 개인정보 issue

RESTful API : An application program interface (**API**) that uses HTTP requests to GET, PUT, POST and DELETE data. An **API** for a website is code that allows two software programs to communicate with each other.

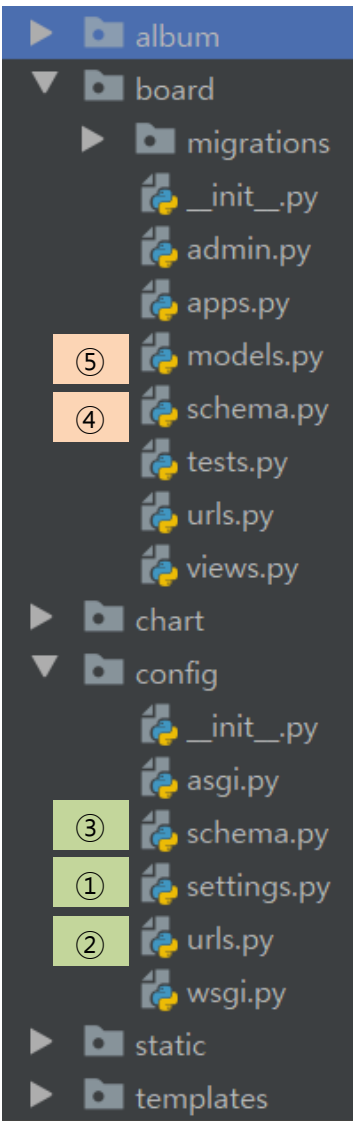
GraphQL : 오픈소스 data query and manipulation language. 페이스북에서 2012년 개발 2015년 공개.

Apollo - Javascript



GraphQL - Django

pip install graphene-django



①

```
INSTALLED_APPS = [  
    'graphene_django',  
]
```

②

```
from graphene_django.views import GraphQLView  
from .schema import schema  
  
urlpatterns = [  
    path('graphql', GraphQLView.as_view(  
        graphiql = True,  
        schema = schema  
    )),  
]
```

/graphql 로 접속하게 된다.

schema.py 를 사용
graphiql = True

③

```
import graphene  
from board.schema import BoardQuery  
  
class Query(  
    BoardQuery,  
):  
    pass  
  
schema = graphene.Schema(query=Query)
```

대상을 설정한다

④

```
import graphene  
from graphene_django.types import DjangoObjectType  
from .models import Board  
  
class BoardType(DjangoObjectType):  
    class Meta:  
        model = Board  
  
class BoardQuery(graphene.ObjectType):  
    allBoard = graphene.List(BoardType)  
  
    def resolve_allBoard(self, info, **kwargs):  
        return Board.objects.all()
```

Django 모델을 연결 :
Type과 Query를 정의

⑤

```
class Board(models.Model):  
    b_no = models.AutoField(db_column='b_no', primary_key=True)  
    b_title = models.CharField(db_column='b_title', max_length=255)  
    ...
```

화면 -graphiql

The screenshot displays the GraphQL Playground interface. The left pane contains a query:

```
1 {  
2   allBoard {  
3     bNo  
4     bTitle  
5     bWriter  
6   }  
7 }  
8
```

. The right pane shows the JSON response:

```
{  
  "data": {  
    "allBoard": [  
      {  
        "bNo": "13",  
        "bTitle": "1",  
        "bWriter": "2"  
      },  
      {  
        "bNo": "17",  
        "bTitle": "3232",  
        "bWriter": "3232"  
      },  
      {  
        "bNo": "18",  
        "bTitle": "게시판입니다....",  
        "bWriter": "홍길동"  
      },  
      {  
        "bNo": "19",  
        "bTitle": "게시판입니다..."  
      }  
    ]  
  }  
}
```

. The top bar includes buttons for 'Prettify', 'Merge', 'Copy', and 'History'. The right sidebar, titled 'Documentation Explorer', contains a search bar and text explaining GraphQL schema root types, with 'query: Query' listed.

- MUTATE, SUBSCRIBE (Webhook, 사용자 정의 콜백)
- Use query from clients, JSON