

### WEB DEVELOPMENT

Lesson 13



# CRUD using DRF



# Wrapping API views



## Wrapping API views

1. @api\_view -FBV

from rest\_framework.decorators import api\_view

2. APIView —CBV

from rest framework.views import APIView

- receive Request instance in view
- add context to Response
- method not allowed
- parsing error



### Function Based Views

Rewriting our API using @api\_view

from rest\_framework.decorators import api\_view



### Class Based Views

Rewriting our API using class-based views

from rest\_framework.views import APIView



## Requests and Responses



## Request

from rest\_framework.request import Request

request.POST

- form-data
- POST

request.data

- attribute data
- POST, PUT, PATCh



## Response

from rest\_framework.response import Response

return Response(data)



### Status code

from rest\_framework import status

return Response(data, status=status.HTTP\_200\_OK)



#### Generic class-based views and Mixins

```
from rest_framework import mixins
from rest_framework import generics
```

```
class StudentList(generics.ListCreateAPIView):
    queryset = Student.objects.all()
    serializer class = StudentSerializer
```



#### Views for User model



#### Authentication & Permissions



#### DRF Authentication

- 1. BasicAuthentication
- 2. TokenAuthentication
- 3. SessionAuthentication
- 4. Third party auth

#### DRF Authentication

```
REST_FRAMEWORK = {
    'DEFAULT_AUTHENTICATION_CLASSES': (
        'rest_framework.authentication.BasicAuthentication',
        'rest_framework.authentication.SessionAuthentication',
        'rest_framework.authentication.TokenAuthentication',
    )
}
```

#### DRF TokenAuthentication

```
INSTALLED_APPS
    rest framework.authtoken
views.py
def login(request):
urls.py
```

path('api/login/', views.login)



#### Permissions

```
from rest_framework.permissions import IsAuthenticated
from rest_framework.permissions import AllowAny

#view class
permission_classes = (IsAuthenticated, )
```



#### Authentications

```
from rest_framework.authentication import TokenAuthenticationfrom

#view class
authentication_classes = (TokenAuthenticationfrom, )
```



#### Authenticated user in view

```
def get_queryset(self):
    return Model.objects.filter(owner=self.request.user)

def perform_create(self, serializer):
    serializer.save(created by=self.request.user)
```



## Questions?

