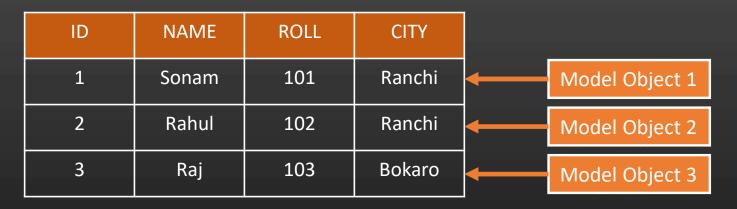
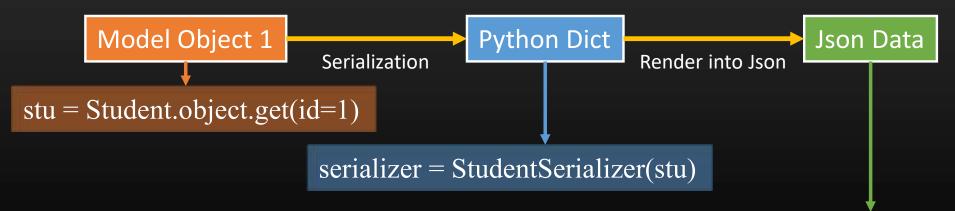
Serialization

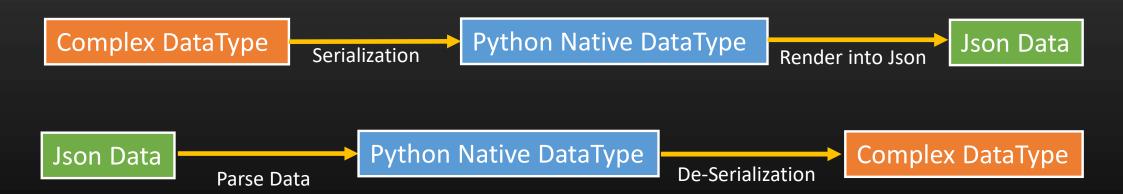




json_data = JSONRenderer().render(serializer.data)

De-serialization

Serializers are also responsible for descrialization which means it allows parsed data to be converted back into complex types, after first validating the incoming data.



BytesIO()

A stream implementation using an in-memory bytes buffer. It inherits BufferedIOBase. The buffer is discarded when the close() method is called.

import io

 $\overline{\text{stream} = \text{io.BytesIO(json_data)}}$

JSONParser()

This is used to parse json data to python native data type. from rest_framework.parsers import JSONParser parsed_data = JSONParser().parse(stream)

De-serialization

Deserialization allows parsed data to be converted back into complex types, after first validating the incoming data.

Creating Serializer Object serializer = StudentSerializer(data = parsed_data)

Validated Data serializer.is_valid()

serializer.validated_data serializer.errors

serializer.validated_data

This is the Valid data. serializer.validated data

Create Data/Insert Data

```
from rest_framework import serializers

class StudentSerializer(serializers.Serializer):

name = serializers.CharField(max_length=100)

roll = serializers.IntegerField()

city = serializers.CharField(max_length=100)

def create(self, validated_data):

return Student.objects.create(**validated_data)
```

Update Data

```
from rest framework import serializers
class StudentSerializer(serializers.Serializer):
  name = serializers.CharField(max_length=100)
  roll = serializers.IntegerField()
                                                     New Data from user for updation
  city = serializers.CharField(max_length=100)
  def update(self, instance, validated data):
                                                      Old Data stored in Database
       instance.name = validated data.get('name', instance.name)
       instance.roll = validated data.get('roll', instance.roll)
       instance.city = validated data.get('city', instance.city)
       instance.save()
       return instance
```

Complete Update Data

By default, serializers must be passed values for all required fields or they will raise validation errors.

```
Required All Data from Front End/Client
```

serializer = StudentSerializer(stu, data=pythondata)

if serializer.is_valid():

serializer.save()

Partial Update Data

```
Partial Update - All Data not required serializer = StudentSerializer(stu, data=pythondata, partial=True) if serializer.is_valid(): serializer.save()
```