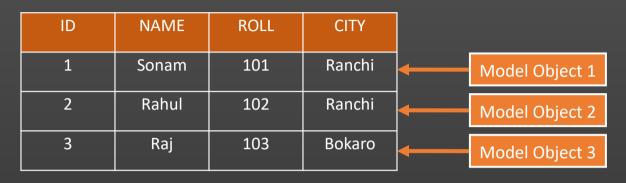
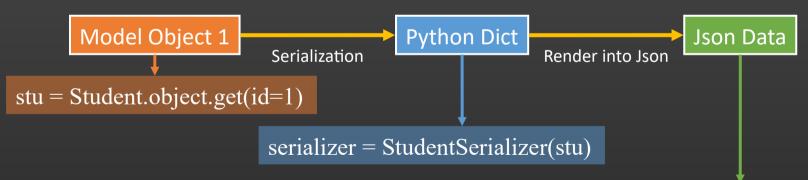
#### Serialization

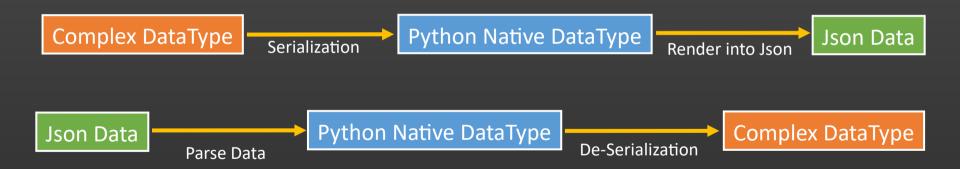




json\_data = JSONRenderer().render(serializer.data)

#### **De-serialization**

Serializers are also responsible for deserialization 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

stream = 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**

Descrialization 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()
  city = serializers.CharField(max length=100)
                                                      New Data from user for updation
  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()
```