



BACKEND FRAMEWORK (DJANGO)

Lesson 7

DRF Serializers

rest_framework.Serializer

1. Serializing objects
2. `create(self, validated_data)`
3. `update(self, instance, validated_data)`
4. `save()`

Validation

1. `serializer.is_valid()` - while deserializing data —(True, False)
2. `serializer.errors`
3. `serializer.is_valid(raise_exception=True)`

Field level validation

1. `validate_<field_name>(field_value)`
2. return validated value
3. raise `serializers.ValidationError` if any

Object level validation

1. `validate(data)`
2. return validated value
3. raise `serializers.ValidationError` if any

Validators

```
def rating_range_validation(value):  
    if not (1 <= value <= 5):  
        raise serializers.ValidationError('Invalid rating value')
```

```
rating = IntegerField(validators=[rating_range_validation])
```

ModelSerializer

The **ModelSerializer** class is the same as a regular **Serializer** class, except that:

1. It will automatically generate a set of fields for you, based on the model.
2. It will automatically generate validators for the serializer, such as `unique_together` validators.
3. It includes simple default implementations of **.create()** and **.update()**.

```
class TaskSerializer(serializers.ModelSerializer):
    class Meta:
        model = Task
        fields = ('id', 'title', 'description', 'created_at',)

        # fields = '__all__'
```


ModelSerializer

1. fields or exclude
2. read_only_fields

```
class TaskSerializer(serializers.ModelSerializer):  
    class Meta:  
        model = Task  
        fields = ('id', 'title', 'description', 'created_at',)  
  
    # fields = '__all__'
```

Nested Serializers

BaseSerializer

1. `.data`
2. `.is_valid()`
3. `.validated_data`
4. `.errors`
5. `.save()`
6. `.create()` / `.update()`
7. `.to_representation()` / `.to_internal_value()`

Serializer Inheritance

Questions?