

# Tarea 3 - Django Rest Framework

Electiva Desarrollo de Software

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## Django Rest Framework

### Enviroment

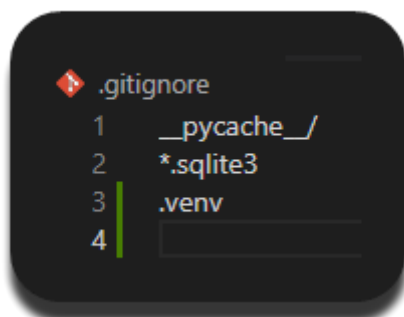
```
# Creando carpeta del proyecto
mkdir django_blog
cd django_blog

# Activando ambiente
virtualenv .venv
Set-ExecutionPolicy -ExecutionPolicy RemoteSigned -Scope Process
.\.venv\Scripts\activate

# Django
pip install django
django-admin startproject django_project .

# Creando repositorio
git init
code .gitignore
```

### Añadiendo archivos a excluir



.gitignore.png

```
# Primer commit
git status
git add -A
git commit -m "First commit"
```

## Uso de Django Rest Framework

```
# En el ambiente activo
pip install djangorestframework

# Creamos la carpeta para el manejo de las Apis
mkdir apis

# Iniciamos la app apis
py .\manage.py startapp apis
```

Modificamos el archivo de `django_project/settings.py`




```
INSTALLED_APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    # 3rd party
    "rest_framework",
    # local
    "books.apps.BooksConfig",
    "apis.apps.ApisConfig",
]
```

installed.png

Añadimos a las urls la ruta que apunta a las Apis

```


django_project >  urls.py > ...
1  from django.contrib import admin
2  from django.urls import path, include
3
4
5  urlpatterns = [
6      path("admin/", admin.site.urls),
7      path("api/", include("apis.urls")),
8      path("", include("books.urls")),
9  ]

```

django\_apis.png

Creamos el archivo **apis/urls.py**

```


apis >  urls.py > ...
1  from django.urls import path
2  from .views import BookAPIView
3
4  urlpatterns = [
5      path("", BookAPIView.as_view(), name="book_list"),
6  ]

```

urls\_apis.png

Creamos las vistas **apis/views.py**

```

apis >  views.py > ...
1  from rest_framework import generics
2  from books.models import Book
3  from .serializers import BookSerializer
4
5  class BookAPIView(generics.ListAPIView):
6      queryset = Book.objects.all()
7      serializer_class = BookSerializer
8

```

apis\_views.png

Creamos el archivo de **apis/serializers.py**

```

apis > 🐍 serializers.py > ...
1  from rest_framework import serializers
2  from books.models import Book
3
4  class BookSerializer(serializers.ModelSerializer):
5      class Meta:
6          model = Book
7          fields = ("title", "subtitle", "author", "isbn")
8

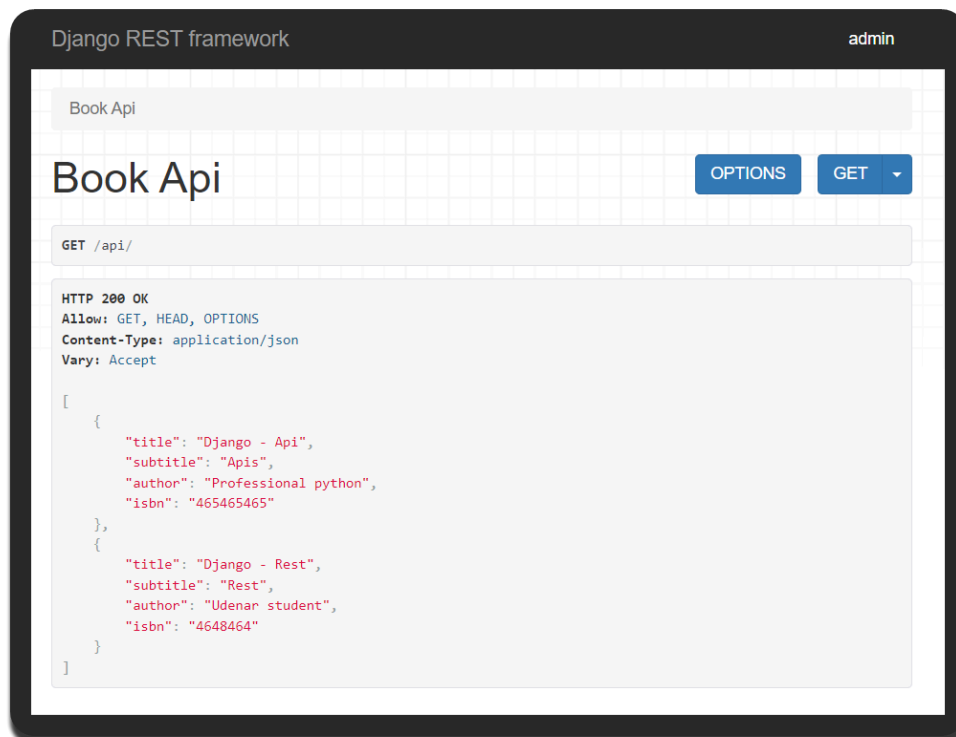
```

serializers.png

```

# iniciamos la aplicación
py .\manage.py runserver

```



runserver.png