```
1. Install & configure DRF
   1. Install:
pip install djangorestframework
   2. In your settings.py, add:
INSTALLED_APPS = [
 'rest_framework',
 'your_app_name',
]
2. Define the Book model
In your_app_name/models.py:
from django.db import models
class Book(models.Model):
 title
          = models.CharField(max_length=200)
 author
            = models.CharField(max_length=100)
 description = models.TextField(blank=True)
 published_date = models.DateField(null=True, blank=True)
 def __str__(self):
   return self.title
Run migrations:
python manage.py makemigrations
python manage.py migrate
```

3. Create a Serializer

In your_app_name/serializers.py:

from rest_framework import serializers

```
from .models import Book
class BookSerializer(serializers.ModelSerializer):
 class Meta:
   model = Book
   fields = ['id', 'title', 'author', 'description', 'published_date']
4. Implement the ViewSet
In your_app_name/views.py:
from rest_framework import viewsets
from .models import Book
from .serializers import BookSerializer
class BookViewSet(viewsets.ModelViewSet):
 .....
 Provides list(), create(), retrieve(), update(), partial_update(), destroy()
 .....
 queryset
              = Book.objects.all()
 serializer_class = BookSerializer
5. Wire up URLs
In your project's urls.py (or in your_app_name/urls.py):
from django.urls import path, include
from rest_framework.routers import DefaultRouter
from your_app_name.views import BookViewSet
```

router = DefaultRouter()

router.register(r'books', BookViewSet, basename='book')

```
urlpatterns = [
  # DRF browsable API and all endpoints:
  path('api/', include(router.urls)),
]
```

6. API Endpoints & Methods

URL Method Action

/api/books/ GET List all books

/api/books/ POST Create a new book

/api/books/{id}/ GET Retrieve book #id

/api/books/{id}/ PUT Full update of book #id

/api/books/{id}/ PATCH Partial update of book #id

/api/books/{id}/ DELETE Delete book #id