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Department: CSE(DS)

Assignment No – 4

Code:

/urls.py

```
from django.urls import path

from .views import BookListCreateView, BookDetailView

urlpatterns = [
    path('books/', BookListCreateView.as_view(), name='book-list'),
    path('books/<int:pk>/', BookDetailView.as_view(),
    name='book-detail'),
]
```

/views.py

```
from django.shortcuts import render

from rest_framework import generics
from .models import Book
from .serializers import BookSerializer

from rest_framework import generics, status
from rest_framework.response import Response
from .models import Book
from .serializers import BookSerializer

class BookListCreateView(generics.ListCreateAPIView):
```

```python
    queryset = Book.objects.all()
    serializer_class =
    BookSerializer

    def create(self, request, *args, **kwargs):
        if isinstance(request.data, list): # Check if request data is a list
            serializer = self.get_serializer(data=request.data, many=True)
        else:
            serializer = self.get_serializer(data=request.data)

        serializer.is_valid(raise_exception=True)
        self.perform_create(serializer)
        return Response(serializer.data, status=status.HTTP_201_CREATED)

class BookDetailView(generics.RetrieveUpdateDestroyAPIView):
    queryset = Book.objects.all()
    serializer_class = BookSerializer
```

/models.py
```python
from django.db import models

class Book(models.Model):
    title = models.CharField(max_length=200)
    isbn = models.CharField(max_length=13, unique=True)

    def _str_(self): return
        self.title
```
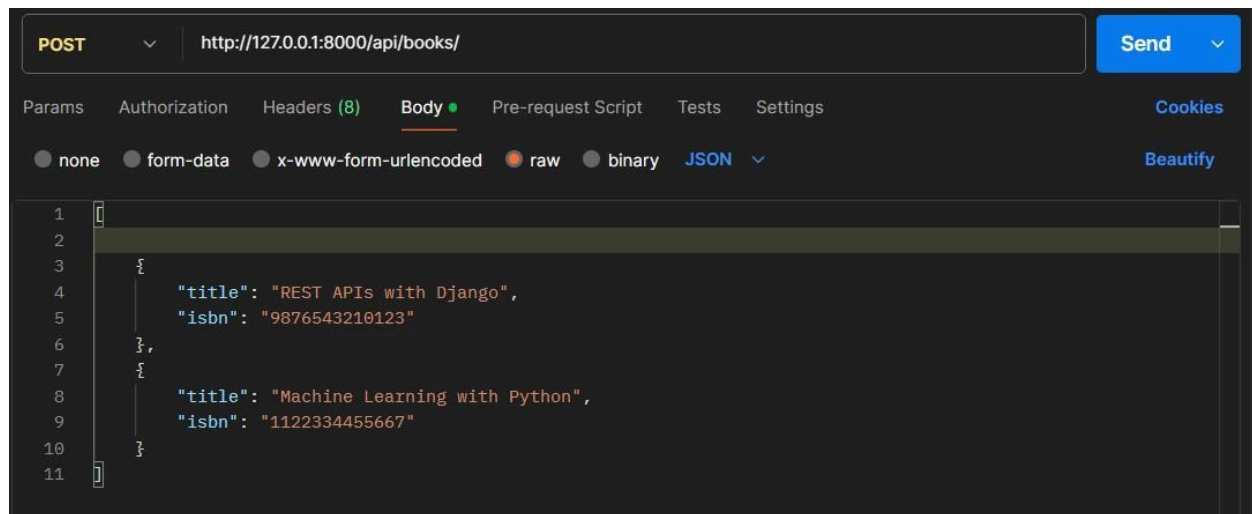
/serializers.py

```python
from rest_framework import serializers
from .models import Book


class BookSerializer(serializers.ModelSerializer):
    class Meta:
        model = Book
        fields = '_all_'
```

Output:

GET http://127.0.0.1:8000/api/books/ **Send**

Params **Authorization** Headers (8) Body ● Pre-request Script Tests Settings Cookies

Type No Auth

This request does not use any authorization. Learn more about authorization ↗

Body Cookies Headers (10) Test Results ⊕ 200 OK 15 ms 529 B Save Response ∨

Pretty Raw Preview Visualize JSON ∨

```json
[
    {
        "id": 1,
        "title": "Django for Beginners",
        "isbn": "1234567890123"
    },
    {
        "id": 2,
        "title": "REST APIs with Django",
        "isbn": "9876543210123"
    },
    {
        "id": 3,
        "title": "Machine Learning with Python",
        "isbn": "1122334455667"
    }
]
```