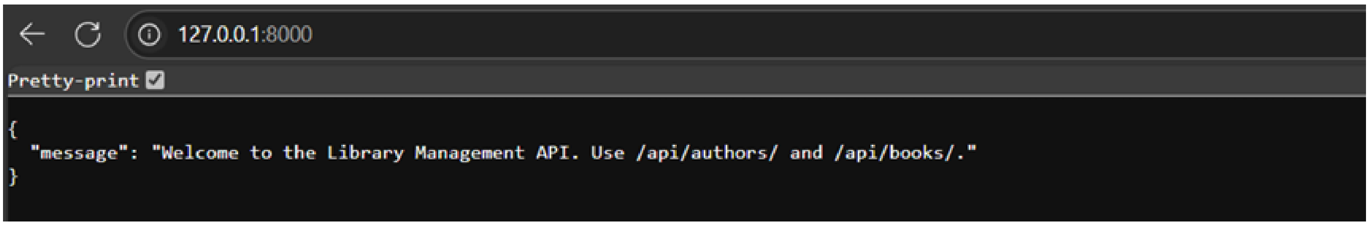
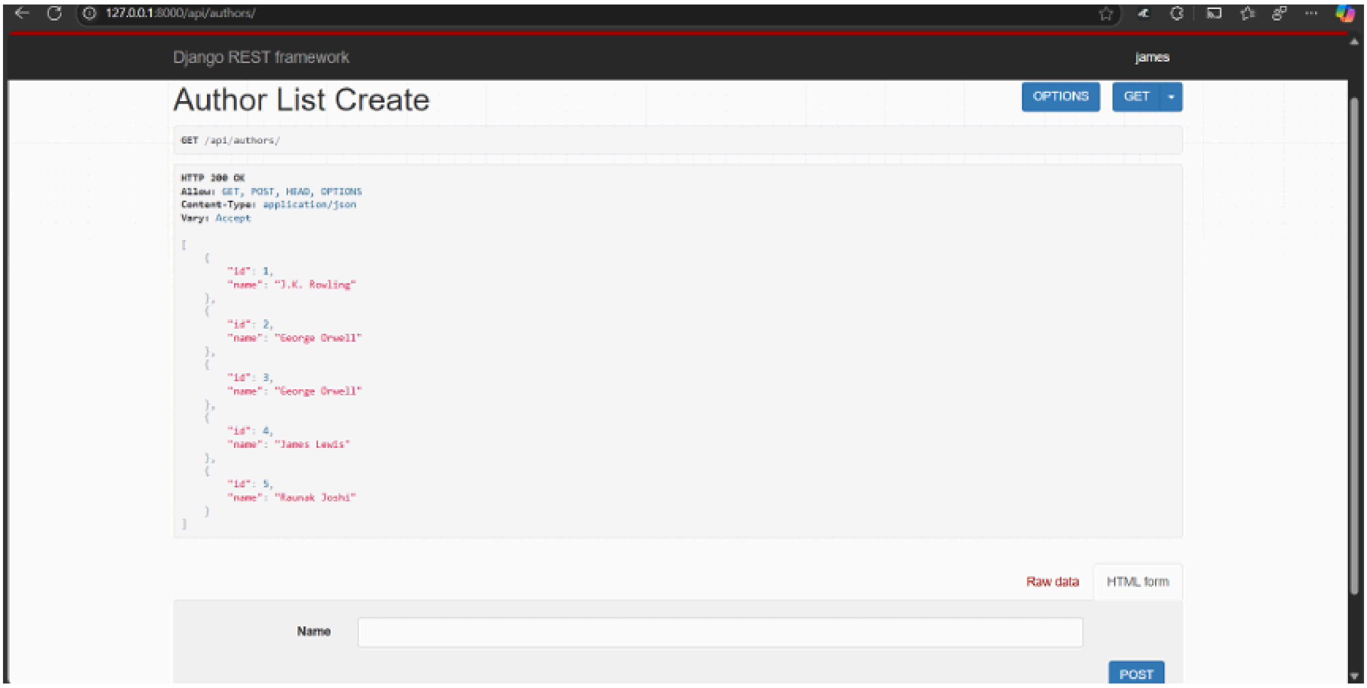
Mohammad Shayaan Shaikh (S3-54)

```
 ### models.py
 from django.db import models
 class Author(models.Model):
    name = models.CharField(max_length=100)
    def __str__(self):
        return self.name
 class Book(models.Model):
    title = models.CharField(max_length=200)
    isbn = models.CharField(max_length=13, unique=True)
    author = models.ForeignKey(Author, on_delete=models.CASCADE)
    def __str__(self):
        return self.title


### serializers.py
 from rest_framework import serializers
 from .models import Author, Book
 class AuthorSerializer(serializers.ModelSerializer):
    class Meta:
        model = Author
        fields = '__all__'
 class BookSerializer(serializers.ModelSerializer):
    class Meta:
        model = Book
        fields = '__all__'


 ### urls.py
 from django.urls import path
 from .views import AuthorListCreateView, AuthorDetailView, BookListCreateVie
 urlpatterns = [
    path('authors/', AuthorListCreateView.as_view(), name='author-list-creat
    path('authors/<int:pk>/', AuthorDetailView.as_view(), name='author-detai
    path('books/', BookListCreateView.as_view(), name='book-list-create'),
    path('books/<int:pk>/', BookDetailView.as_view(), name='book-detail'),
 ]


### views.py
 from django.shortcuts import render
 In [ ]:
 In [ ]:
 In [ ]:
 In [ ]:
from rest_framework import generics
 from .models import Author, Book
 from .serializers import AuthorSerializer, BookSerializer
 from django.http import JsonResponse
 # Author Views
 class AuthorListCreateView(generics.ListCreateAPIView):
    queryset = Author.objects.all()
    serializer_class = AuthorSerializer
class AuthorDetailView(generics.RetrieveUpdateDestroyAPIView):
    queryset = Author.objects.all()
    serializer_class = AuthorSerializer
# Book Views
class BookListCreateView(generics.ListCreateAPIView):
    queryset = Book.objects.all()
    serializer_class = BookSerializer
class BookDetailView(generics.RetrieveUpdateDestroyAPIView):
    queryset = Book.objects.all()
    serializer_class = BookSerializer
def home_view(request):
    return JsonResponse({"message": "Welcome to the Library Management API.
```



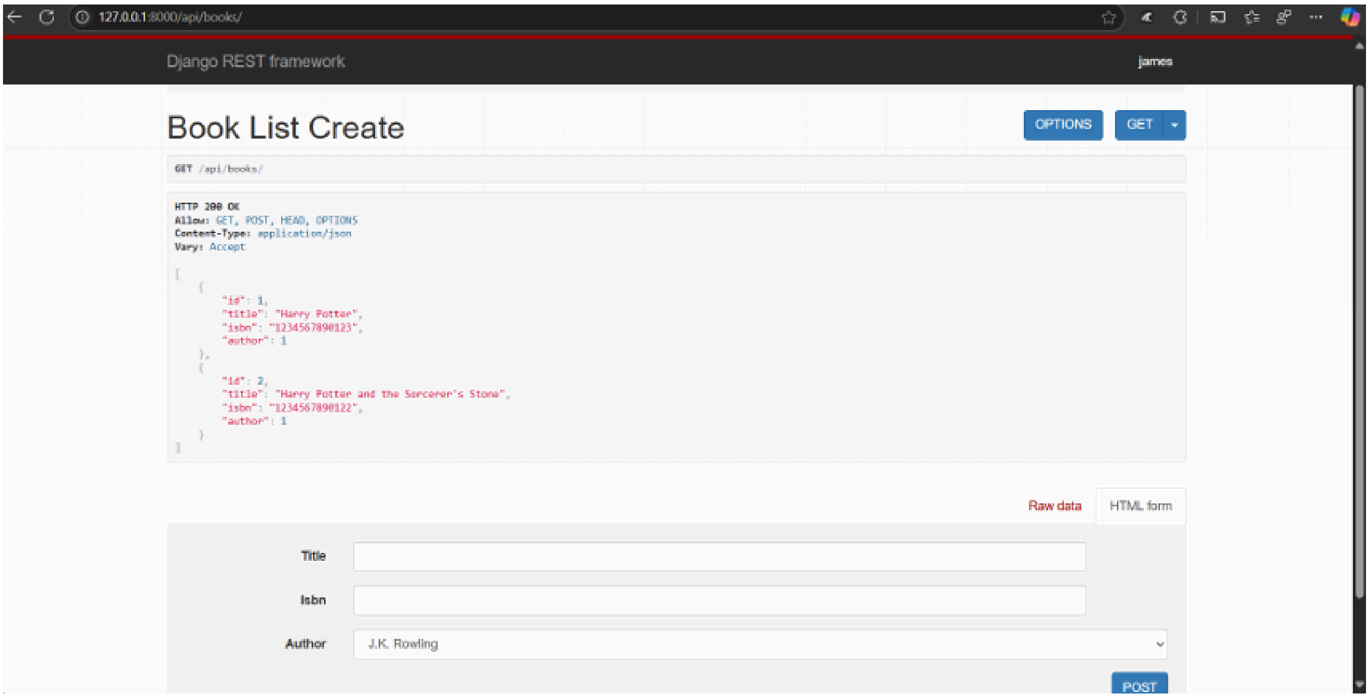
```
{
  "message": "Welcome to the Library Management API. Use /api/authors/ and /api/books/."
}
```



Author List Create

```
GET /api/authors/
```

```
HTTP 200 OK
Allow: GET, POST, HEAD, OPTIONS
Content-Type: application/json
Vary: Accept

[
    {
        "id": 1,
        "name": "J.K. Rowling"
    },
    {
        "id": 2,
        "name": "George Orwell"
    },
    {
        "id": 3,
        "name": "George Orwell"
    },
    {
        "id": 4,
        "name": "James Lewis"
    },
    {
        "id": 5,
        "name": "Kaunak Joshi"
    }
]
```



Book List Create

```
GET /api/books/
```

```
HTTP 200 OK
Allow: GET, POST, HEAD, OPTIONS
Content-Type: application/json
Vary: Accept

[
    {
        "id": 1,
        "title": "Harry Potter",
        "isbn": "1234567890123",
        "author": 1
    },
    {
        "id": 2,
        "title": "Harry Potter and the Sorcerer's Stone",
        "isbn": "1234567890122",
        "author": 1
    }
]
```

Title

Isbn

Author J.K. Rowling