# Operating-Systems-Final-Docker

Docker Challenge Project: Challenges 3 and 4

This repository (https://github.com/Anthony7145/Operating-Systems-Final-

Docker/edit/main/README.md) contains my solutions for Challenges 3 and 4 of the Docker challenge series. The challenges involve setting up a full-stack application using Docker Compose (Challenge 3) and scaling up a service within the Docker environment (Challenge 4).

Challenge 3 – Full Stack Application

Objectives

Set up a multi-container application using Docker Compose.

Integrate web server, Node.js application, and database services.

Utilize environment variables for configuration.

Steps Taken:

Cloned Repository

Cloned the project repository from the provided template (https://github.com/eduluz1976/dockerchallenge-template).

Navigated to Challenge 3 Folder by writing the command " cd

C:\Users\antho\OneDrive\Documents\docker 2\challenge3\docker> docker-compose up"

Added Configuration Files

Created .env file with appropriate configuration variables.

Configured docker-compose.yml to include nginx, node-service, and db services.

Started Docker Containers by writing the command "docker-compose up"

A screenshot of a computer program

Description automatically generated

A screen shot of a computer

Description automatically generated

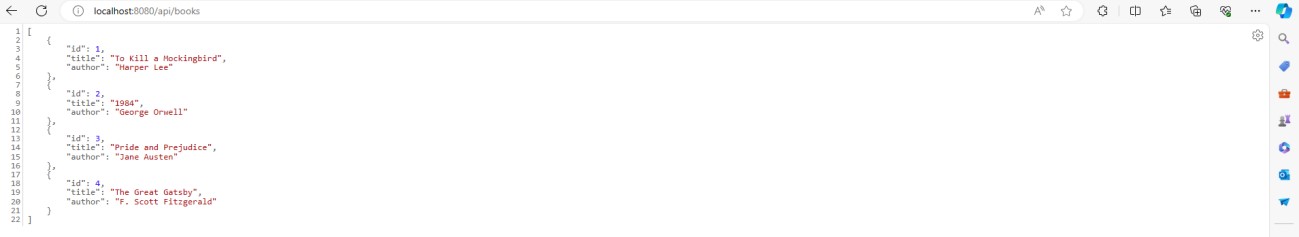
Ran these commands respectively “docker-compose ps” and “docker-compose up -d” and this is the output

A screen shot of a computer

Description automatically generated

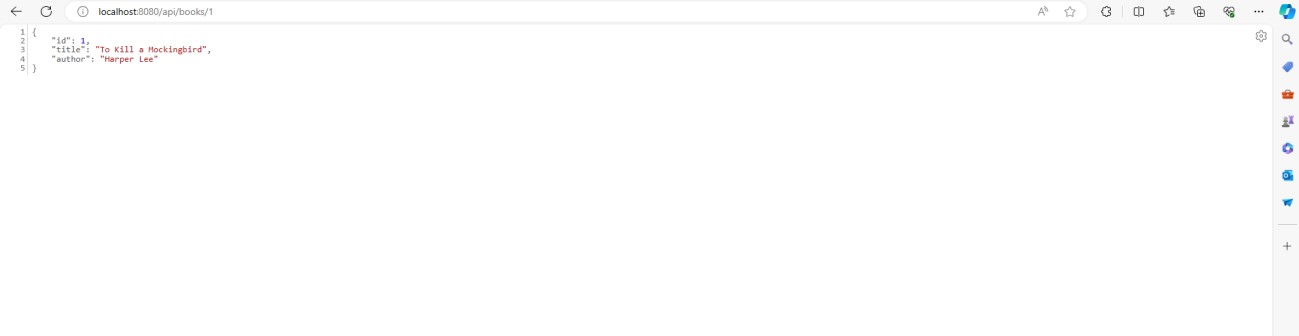
Verified Services:

Accessed http://localhost:8080/api/books in the browser to test the application.



Verified Services:

Accessed http://localhost:8080/api/books/1 in the browser to test the application.



Verified Services:

Accessed http://localhost:8080/api/stats in the browser to test the application.

