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Farmwiseai Assessment-Backend

TASK-RESTful API for a Bookstore Management System

Tool used-Flask

Objective:

Develop a **RESTful API** using Python (Flask/Django or any other framework) for managing a bookstore. The system should allow users to add, retrieve, update, and delete book information.

The Process I underwent is:

Step 1:

Developed a RESTful API for a Bookstore management system using the Python framework Flask. This API consists of 5 endpoints where use can add new book to sql database, user can retrieve by isbn, and also user can update information and delete information with this api.

Step 2:

I initially wrote code in single file then after successfully executing I divided them separately into different folders and files

Structure of the project:

/ FarmwiseAITask

|-- /env

|-- /app

|-- __init__.py

|-- routes.py

|-- models.py

|-- schemas.py

|-- main.py

|--test.py

|-- config.py

|-- BookManagemnetAPICollection

|-- requirements.txt

|--READ.md

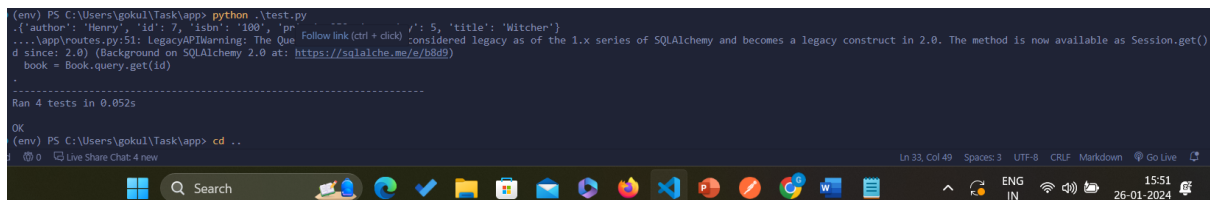
|--db.sqlite

Step 3:

Additional to this I added a Basic authentication for each end point so that Hackers cant directly access the endpoints.

Step 4:

Wrote 4 unit test cases for the api in test file and 4 ran successfully

A screenshot of a Windows terminal window with a dark background. The terminal shows the execution of a Python script. It starts with a command prompt showing the current directory as 'C:\Users\gokul\Task\app'. The user runs 'python .\test.py'. The output shows a list of books with their details (author, id, isbn, price, title) and a warning about SQLAlchemy legacy constructs. It then shows 'book = Book.query.get(id)' and 'Ran 4 tests in 0.052s'. The terminal ends with 'OK' and the user pressing 'cd ..'. The Windows taskbar is visible at the bottom with various application icons and the system clock showing 15:51 on 26-01-2024.

Running the application

1)clone the repo

git clone https://github.com/gokulraj1661/FarmwiseAITask.git

cd FarmwiseAITask

2)Set up virtual environment

pip install virtualenv

virtualenv env

source env/bin/activate # On Windows, use `env\Scripts\activate`

3)Install Dependencies

pip install -r requirements.txt

4)Run the API

cd app

python main.py

NOTE-PLEASE DON'T RUN USING python app/main.py as THERE IS TROUBLE IN IT

