# To run a FastAPI application

## Directory structure

```
Edit Selection View Go Run …
                                                                                                                                       app.py X ≡ requirements.txt
                                            raise HTTPException(status_code=404, detail="Address not found") # Raising 404 exception
                                    def delete_address_from_db(address_id: int):
                                       conn = sqlite3.connect('address_book.db')
                                       c = conn.cursor()
                                       c.execute("DELETE FROM addresses WHERE id=?", (address_id,))
conn.commit()
                                        conn.close()
                                   def update_address_in_db(address_id: int, address: Address): # Function to update an address in the database
                                       c = conn.cursor()
                                       conn.close()
                                                                                                                                PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
                                       Application startup complete.
127.0.0.1:63540 - "POST /addresses/1 HTTP/1.1" 405 Method Not Allo
127.0.0.1:63546 - "GET /addresses/1 HTTP/1.1" 200 OK
                                       127.0.0.1:63550 - "GET /addresses/A HTTP/1.1"
127.0.0.1:63550 - "GET /addresses/A HTTP/1.1"
127.0.0.1:63555 - "GET /addresses/A HTTP/1.1"
127.0.0.1:63855 - "GET /addresses/A HTTP/1.1"
                                                                                                                     10 H 10 G G G X 0
Type here to search
```

To running FastAPI we have use this command

Terminal: - uvicorn app:app --reload

Here are the API endpoints:

#### **Create Address:**

Endpoint: POST /addresses/

Actual api - http://127.0.0.1:8000/addresses/

Request Body: JSON containing address details (street, city, state,

country, coordinates)

```
Json format data
{

"street": "Marthalli",

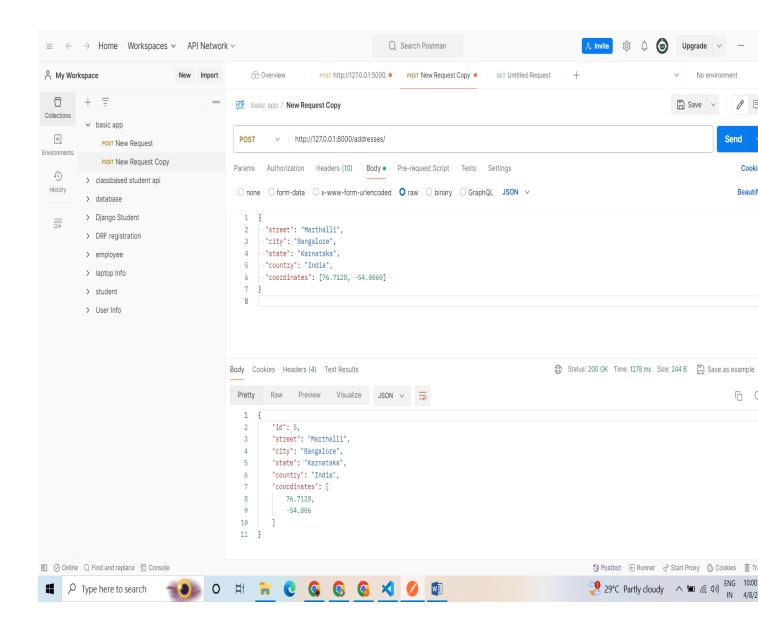
"city": "Bangalore",

"state": "Karnataka",

"country": "INDIA",

"coordinates": [76.7128, -54.0060]
}
```

Response: JSON containing the created address details with assigned ID



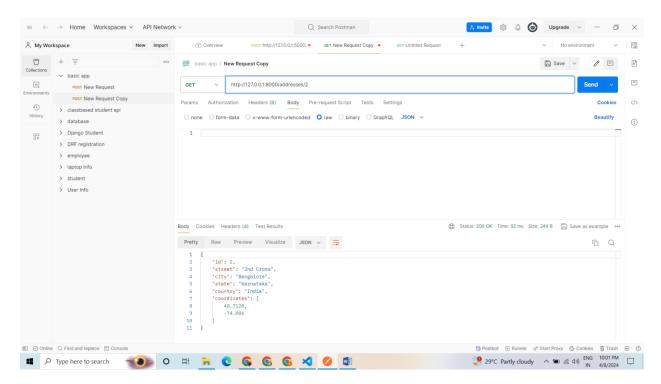
## **Read Address:**

Endpoint: GET /addresses/{address\_id}

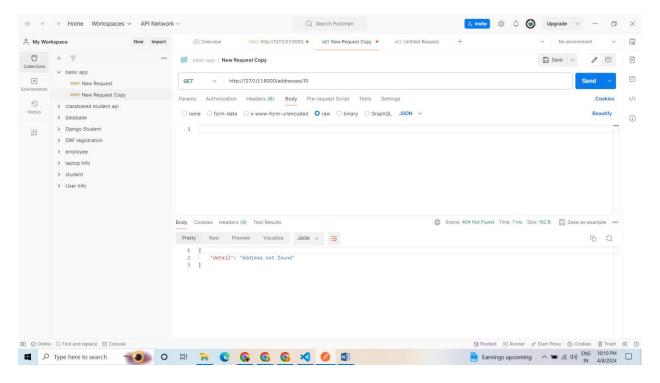
Actual api - http://127.0.0.1:8000/addresses/2

Path Parameter: address id - ID of the address to retrieve

Response: JSON containing the address details



# Data validation when address id is not existing



# **Update Address:**

Endpoint: PUT /addresses/{address\_id}

Actual api - http://127.0.0.1:8000/addresses/2

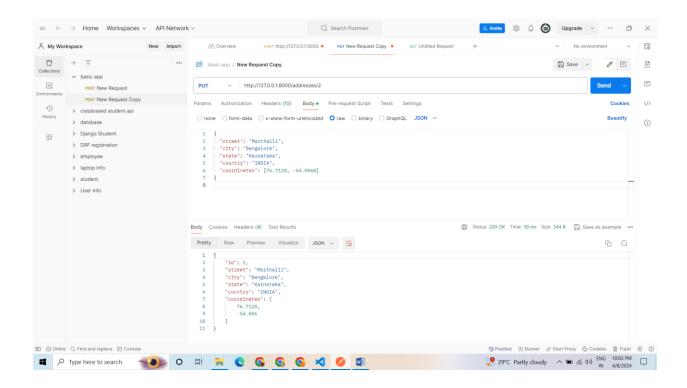
Path Parameter: address id - ID of the address to update

Request Body: JSON containing updated address details (street, city,

state, country, coordinates)

Here I have updated India to INDIA

Response: JSON containing the updated address details



#### **Delete Address:**

Endpoint: DELETE /addresses/{address\_id}

http://127.0.0.1:8000/addresses/1 ( deleting record 1 )

Path Parameter: address id - ID of the address to delete

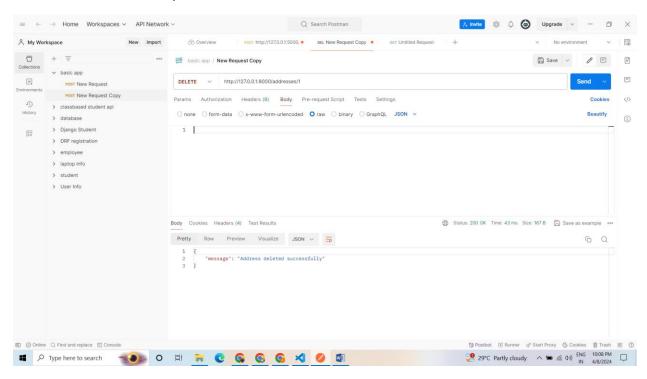
Response: JSON with a message confirming successful deletion

Get Addresses Within Radius:

Endpoint: GET /addresses/

Query Parameters: latitude, longitude, distance

Response: JSON array containing addresses within the specified distance from the provided location coordinates



After deletion again hitting same api

http://127.0.0.1:8000/addresses/1

### Data validation

