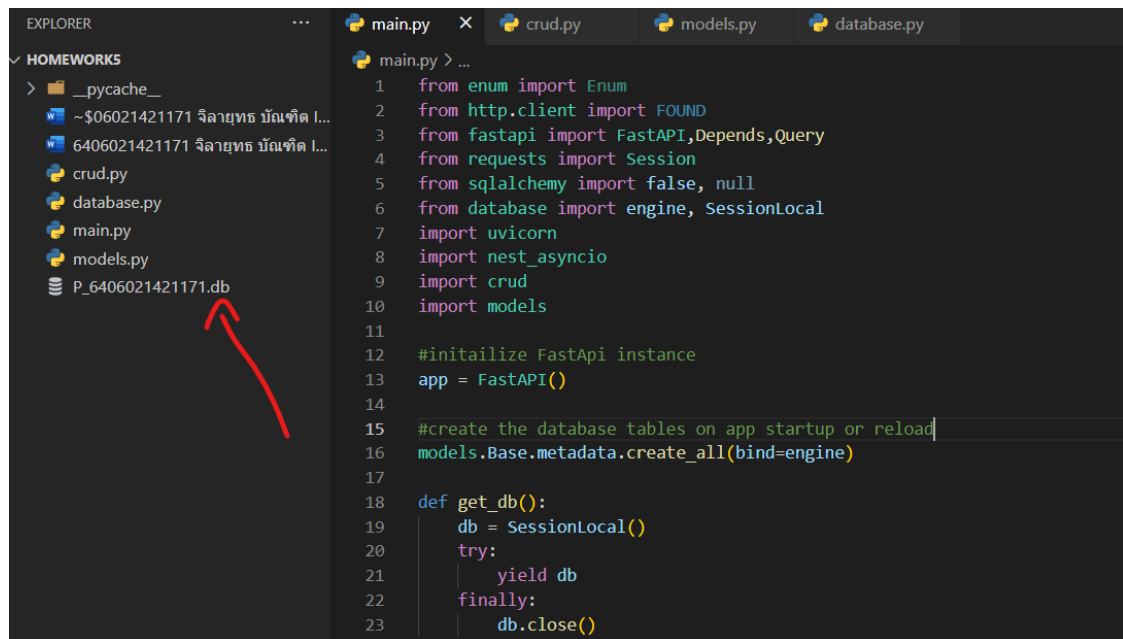


6406021421171 จิลายุทธ บัณฑิต ITI SEC B Homework



The screenshot shows a code editor with a file explorer on the left and a Python file (main.py) on the right. The file explorer shows a directory structure with files: crud.py, database.py, main.py, models.py, and P\_6406021421171.db. A red arrow points from the file explorer to the main.py file. The main.py file contains the following code:

```
1 from enum import Enum
2 from http.client import FOUND
3 from fastapi import FastAPI, Depends, Query
4 from requests import Session
5 from sqlalchemy import false, null
6 from database import engine, SessionLocal
7 import uvicorn
8 import nest_asyncio
9 import crud
10 import models
11
12 #initailize FastApi instance
13 app = FastAPI()
14
15 #create the database tables on app startup or reload
16 models.Base.metadata.create_all(bind=engine)
17
18 def get_db():
19     db = SessionLocal()
20     try:
21         yield db
22     finally:
23         db.close()
```

เมื่อรันโปรแกรมจะได้ไฟล์ .db

POST

/Books/{id} Create Book

Parameters

Name	Description
<b>Book_ISBN</b> * required integer (query)	<input type="text" value="123"/>
<b>Book_title</b> * required string (query)	<input type="text" value="Python"/>
<b>Author</b> * required string (query)	<input type="text" value="Prayut"/>
<b>Price</b> * required integer (query)	<input type="text" value="100"/>
<b>Qty</b> * required integer (query)	<input type="text" value="10"/>

Execute

Request URL

http://127.0.0.1:8080/Books/{id}?Book\_ISBN=123&Book\_title=Python&Author=Prayut&Price=100&Qty=10

Server response

Code	Details
200	<div><div>Response body</div><pre>{   "book": {     "Author": "Prayut",     "Book_id": 1,     "Qty": 10,     "Price": 100,     "Book_ISBN": 123,     "Book_title": "Python"   } }</pre><div>Response headers</div><pre>content-length: 99 content-type: application/json date: Sun,09 Oct 2022 08:16:19 GMT server: uvicorn</pre></div>

Create Book Insert ข้อมูล

**POST** /Books/{id} Create Book

---

**Parameters**

Name	Description
<b>Book_ISBN</b> * required integer (query)	<input type="text" value="123"/>
<b>Book_title</b> * required string (query)	<input type="text" value="C++"/>
<b>Author</b> * required string (query)	<input type="text" value="Jan O cha"/>
<b>Price</b> * required integer (query)	<input type="text" value="500"/>
<b>Qty</b> * required integer (query)	<input type="text" value="20"/>

**Execute**

**Request URL**

`http://127.0.0.1:8080/Books/{id}?Book_ISBN=123&Book_title=C%2B%2B&Author=Jan%20%20cha&Price=500&Qty=20`

**Server response**

Code	Details
500 <i>Undocumented</i>	Error: Internal Server Error

**Response body**

`Internal Server Error`

**Response headers**

`content-length: 21  
content-type: text/plain; charset=utf-8  
date: Sun,09 Oct 2022 08:19:14 GMT  
server: uvicorn`

เมื่อ Insert ข้อมูล กรณีข้อมูล Colum Book\_ISBN มีข้อมูลซ้ำกันหรือมีข้อมูลอยู่แล้ว  
จะไม่สามารถ Insert ข้อมูลใหม่ไปได้

GET

/Books

List Book

Parameters

No parameters

Execute

Request URL	
http://127.0.0.1:8080/Books	
Server response	
Code	Details
200	<div>Response body<pre>[   {     "Author": "Prayut",     "Book_id": 1,     "Qty": 10,     "Price": 100,     "Book_ISBN": 123,     "Book_title": "Python"   },   {     "Author": "Jan O cha",     "Book_id": 2,     "Qty": 20,     "Price": 500,     "Book_ISBN": 223,     "Book_title": "C++"   },   {     "Author": "Kanchai",     "Book_id": 3,     "Qty": 30,     "Price": 1000,     "Book_ISBN": 323,     "Book_title": "Java"   } ]</pre></div>

Get Book Show ข้อมูลทั้งหมดที่มีใน Table

GET

/Books/Name/{Name}

Get Book

Parameters

Name	Description
<b>Book_title</b> * required string (query)	<input type="text" value="Python"/>

Execute

Request URL

http://127.0.0.1:8080/Books/Name/{Name}?Book\_title=Python

Server response

Code	Details
200	<div><div>Response body</div><pre>{   "Author": "Prayut",   "Book_id": 1,   "Qty": 10,   "Price": 100,   "Book_ISBN": 123,   "Book_title": "Python" }</pre></div>

Get Book by Name เรียกข้อมูลด้วยชื่อหนังสือ

GET

/Books/{id} Get Book

Parameters

Name	Description
<b>id</b> * required integer (path)	<input type="text" value="2"/>

Execute

Request URL

http://127.0.0.1:8080/Books/2

Server response

Code	Details
200	<div><div>Response body</div><pre>{   "Author": "Jan O cha",   "Book_id": 2,   "Qty": 20,   "Price": 500,   "Book_ISBN": 223,   "Book_title": "C++" }</pre></div>

Get Book by ID เรียกข้อมูลด้วย ID ของหนังสือ

PUT

/Books/{id}

Update Book

Parameters

Name	Description
<b>id</b> * required integer (path)	<input type="text" value="3"/>
<b>Book_ISBN</b> * required integer (query)	<input type="text" value="555"/>
<b>Book_title</b> * required string (query)	<input type="text" value="PHP"/>
<b>Author</b> * required string (query)	<input type="text" value="KhanChai"/>
<b>Price</b> * required integer (query)	<input type="text" value="1500"/>
<b>Qty</b> * required integer (query)	<input type="text" value="10"/>

Execute

Request URL

http://127.0.0.1:8080/Books/3?Book\_ISBN=555&Book\_title=PHP&Author=KhanChai&Price=1500&Qty=10

Server response

Code	Details
200	<div>Response body</div> <pre>{   "Author": "KhanChai",   "Book_id": 3,   "Qty": 10,   "Price": 1500,   "Book_ISBN": 555,   "Book_title": "PHP" }</pre>

Update Book by ID แก้ไขข้อมูลหนังสือ

GET

/Books/Price/{prince}Get Price

Parameters

Name	Description
<b>prince</b> * required integer (path)	<input type="text" value="500"/>
option_price string (query)	<div>MORE</div>

Execute

Request URL

http://127.0.0.1:8080/Books/Price/500?option\_price=MORE

Server response

Code	Details
200	<div>Response body</div> <pre>[   {     "Bookstore": {       "Author": "KhanChai",       "Book_id": 3,       "Qty": 10,       "Price": 1500,       "Book_ISBN": 555,       "Book_title": "PHP"     },     "Price": 1500   } ]</pre>

Show Book Price ใส่ข้อมูลราคาที่ต้องการ เลือก More คือ Show ราคาที่มากกว่า  
ราคาที่เรใส่ข้อมูล



GET

/Books/Price/{prince}Get Price

Parameters

Name	Description
<b>prince</b> * required integer (path)	<input type="text" value="500"/>
option_price string (query)	<div>LESS</div>

Execute

Request URL

http://127.0.0.1:8080/Books/Price/500?option\_price=LESS

Server response

Code	Details
200	<div>Response body</div> <pre>[   {     "Bookstore": {       "Author": "Prayut",       "Book_id": 1,       "Qty": 10,       "Price": 100,       "Book_ISBN": 123,       "Book_title": "Python"     },     "Price": 100   } ]</pre>

Show Book Price ใส่ข้อมูลราคาที่ต้องการ เลือก LESS คือ Show ราคาที่น้อยกว่า  
ราคาที่เรใส่ข้อมูล

GET

/Books/Price/{prince}

Get Price

Parameters

Name	Description
<b>prince</b> * required integer (path)	<input type="text" value="500"/>
option_price string (query)	<div>EQUAL</div>

Execute

Request URL

`http://127.0.0.1:8080/Books/Price/500?option_price=EQUAL`

Server response

Code	Details
200	<div>Response body</div> <pre>[   {     "Bookstore": {       "Author": "Jan O cha",       "Book_id": 2,       "Qty": 20,       "Price": 500,       "Book_ISBN": 223,       "Book_title": "C++"     },     "Price": 500   } ]</pre>

Show Book Price ใส่ข้อมูลราคาที่ต้องการ เลือก EQUAL คือ Show ราคาที่เท่ากับ  
ราคาที่เรใส่ข้อมูล

กรณีเลือก More , LESS ,EQUAL แล้วไม่พบข้อมูลจะขึ้นข้อความ

"error": "No book Price 0 is More "

"error": "No book Price 0 is LESS "

"error": "No book Price 0 is EQUAL "

**DELETE** **/Books/{id}** Delete Book

**Parameters**

Name	Description
<b>id</b> * required integer (path)	<input type="text" value="1"/>

**Request URL**

**http://127.0.0.1:8080/Books/1**

**Server response**

Code	Details
200	<b>Response body</b> <b>null</b>

Response body

```
[
  {
    "Author": "Prayut",
    "Book_id": 1,
    "Qty": 10,
    "Price": 100,
    "Book_ISBN": 123,
    "Book_title": "Python"
  },
  {
    "Author": "Jan O cha",
    "Book_id": 2,
    "Qty": 20,
    "Price": 500,
    "Book_ISBN": 223,
    "Book_title": "C++"
  },
  {
    "Author": "Kanchai",
    "Book_id": 3,
    "Qty": 30,
    "Price": 1000,
    "Book_ISBN": 323,
    "Book_title": "Java"
  }
]
```

Response body

```
[
  {
    "Author": "Jan O cha",
    "Book_id": 2,
    "Qty": 20,
    "Price": 500,
    "Book_ISBN": 223,
    "Book_title": "C++"
  },
  {
    "Author": "KhanChai",
    "Book_id": 3,
    "Qty": 10,
    "Price": 1500,
    "Book_ISBN": 555,
    "Book_title": "PHP"
  }
]
```

Response headers

Delete Book by ID

ลบข้อมูลนั้นๆตาม ID ที่เราใส่เข้าไป