

# Database System

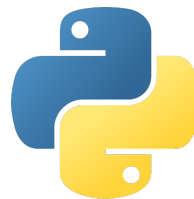
## Clothing E-Commerce Platform

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李明軒 工海四

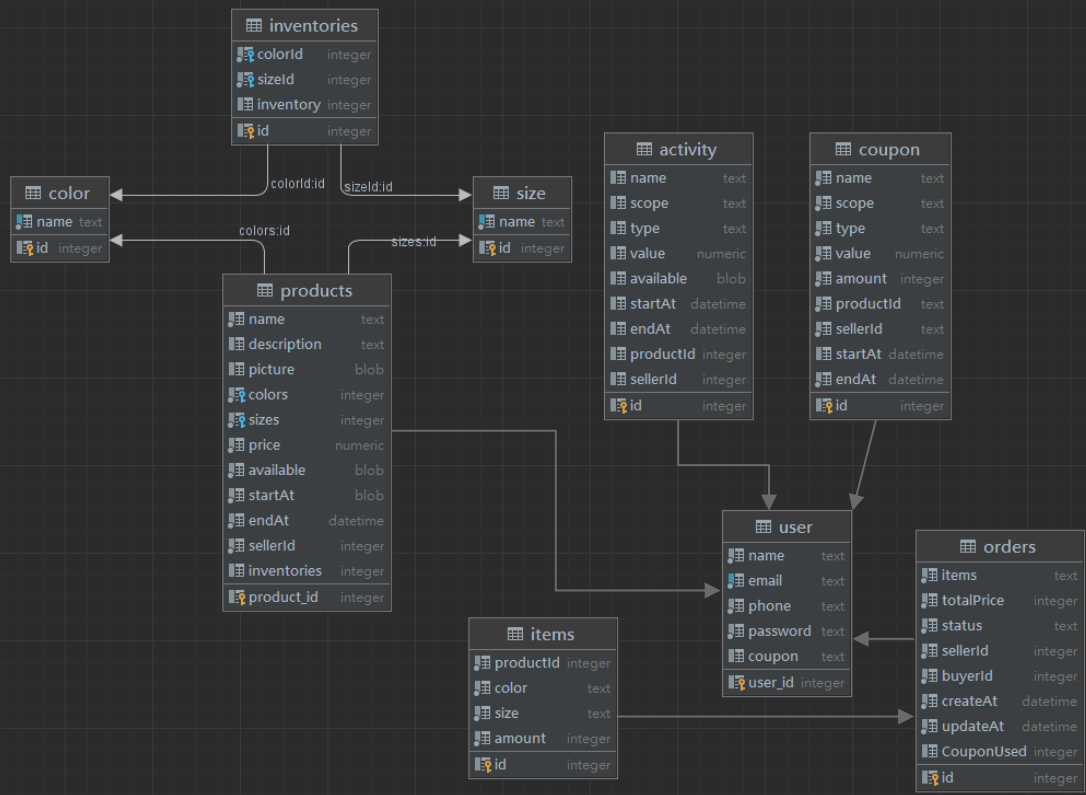
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










**Using Python**

# ER Diagram

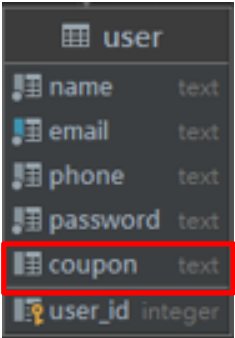


# Database Setup

- >  user
- >  activity
- >  color
- >  coupon
- >  inventories
- >  items
- >  orders
- >  products
- >  size

	user	
	user_id	INTEGER
	name	TEXT
	email	TEXT
	phone	TEXT
	password	TEXT
	coupon	TEXT

# Database Setup

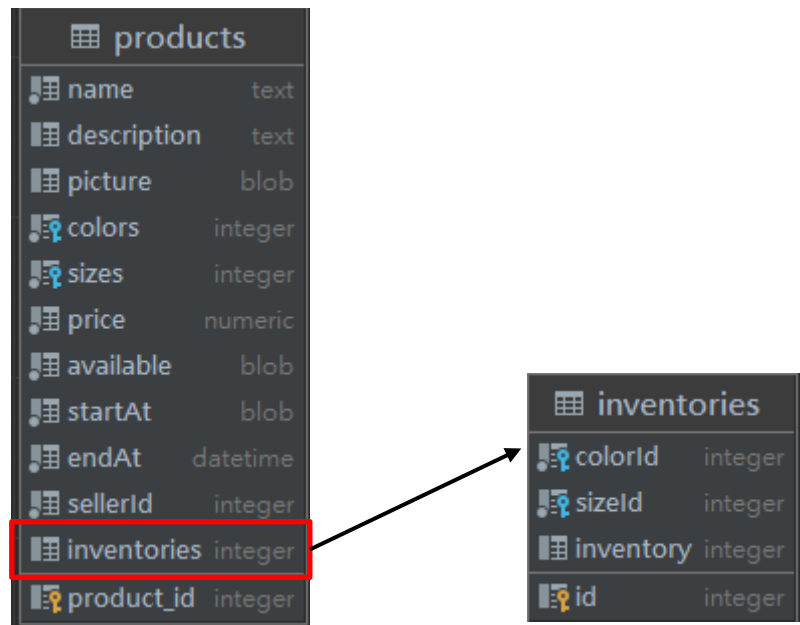


user	
name	text
email	text
phone	text
password	text
coupon	text
user_id	integer

**Coupon :**  
**Identify the coupons which users have**

	user_id	name	email	phone	password	coupon
	過濾	過濾	過濾	過濾	過濾	過濾
1	1	Jane	meison.com	0003948924	12345	1,2
2	2	johnson	johnson.com	120930391	12345	3,1,2,2

# Database Setup



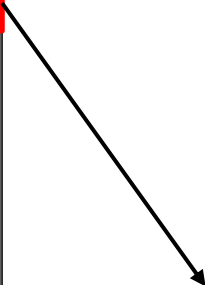
## Inventory :

A specific code is recorded for the remaining stock of clothing in each **color** and **size**

	id	colorId	sizeId	inventory
	過濾	過濾	過濾	過濾
1	1	3	2	70
2	2	3	3	10
3	3	3	4	10
4	4	4	2	30

# Database Setup

orders	
items	text
totalPrice	integer
status	text
sellerId	integer
buyerId	integer
createAt	datetime
updateAt	datetime
CouponUsed	integer
id	integer



items	
productId	integer
color	text
size	text
amount	integer
id	integer

**Id :**

**A specific code is recorded for the respective purchased item and purchased quantity**

	id	productId	color	size	amount
	過濾	過濾	過濾	過濾	過濾
1	1	5,4	white,blue	M,M	1,1

## Try `except`

```
print("\ninventory problem\n")  
raise ValueError('No enough inventory for you !!')
```

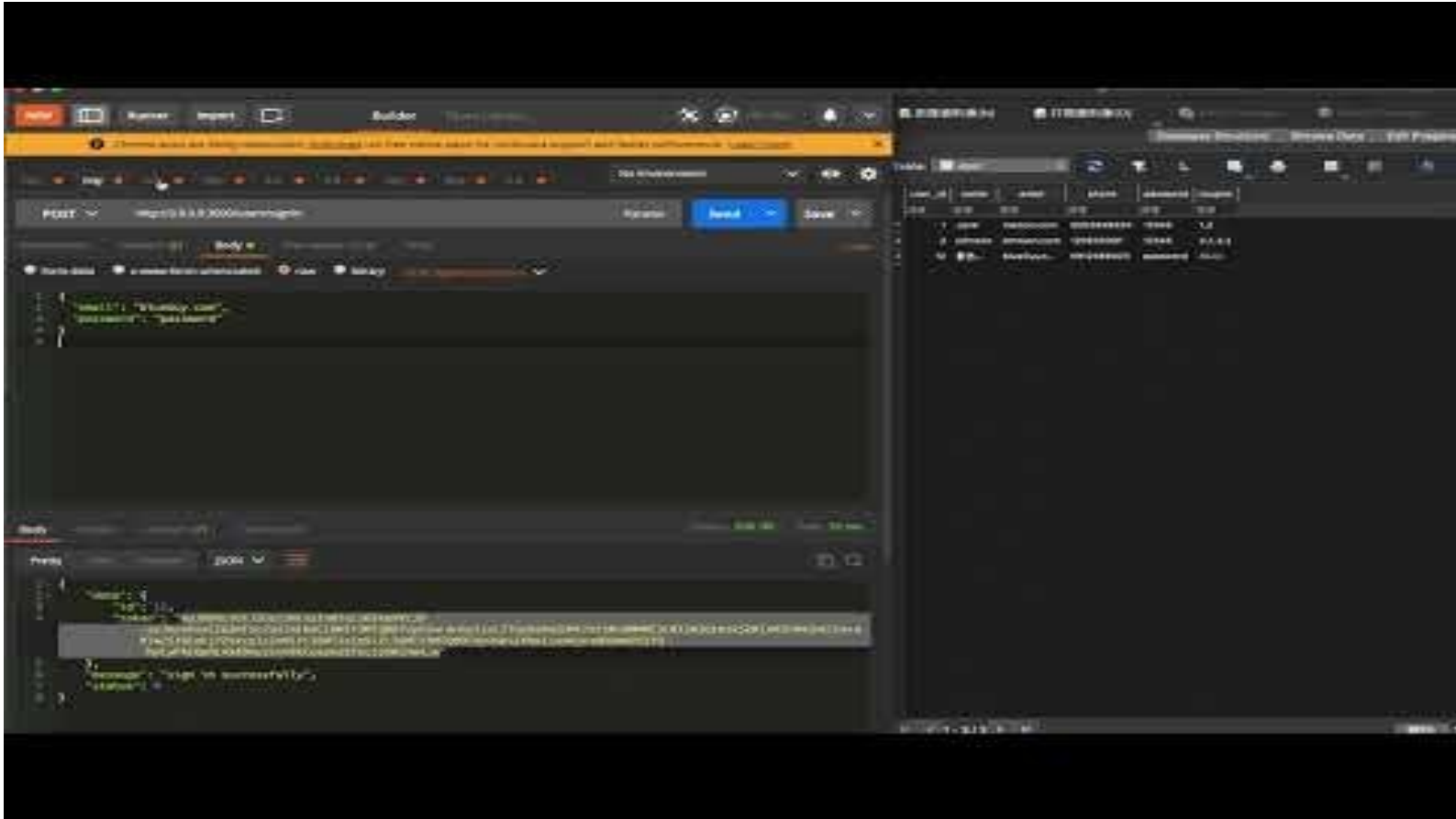
```
result = check_product_same_seller(products)  
  
if result['check'] == 0:  
    raise ValueError("You can only buy products in one store in each  
    order !!")
```

```
if check_if_user_have_coupon(coupon, userId) == 0:  
    raise ValueError("You don't have the coupon")
```

**And more..**

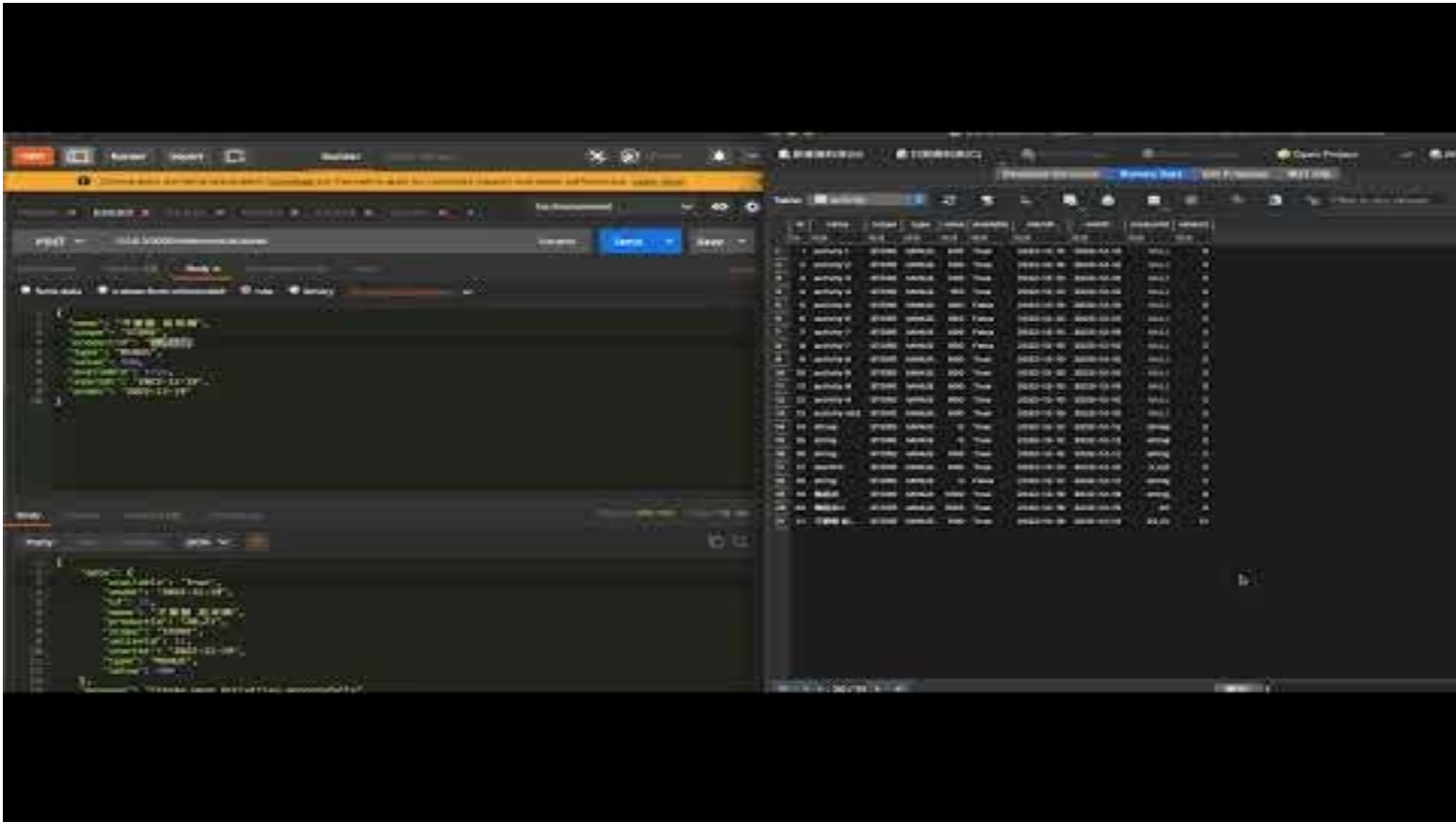


# API implementation – DB User



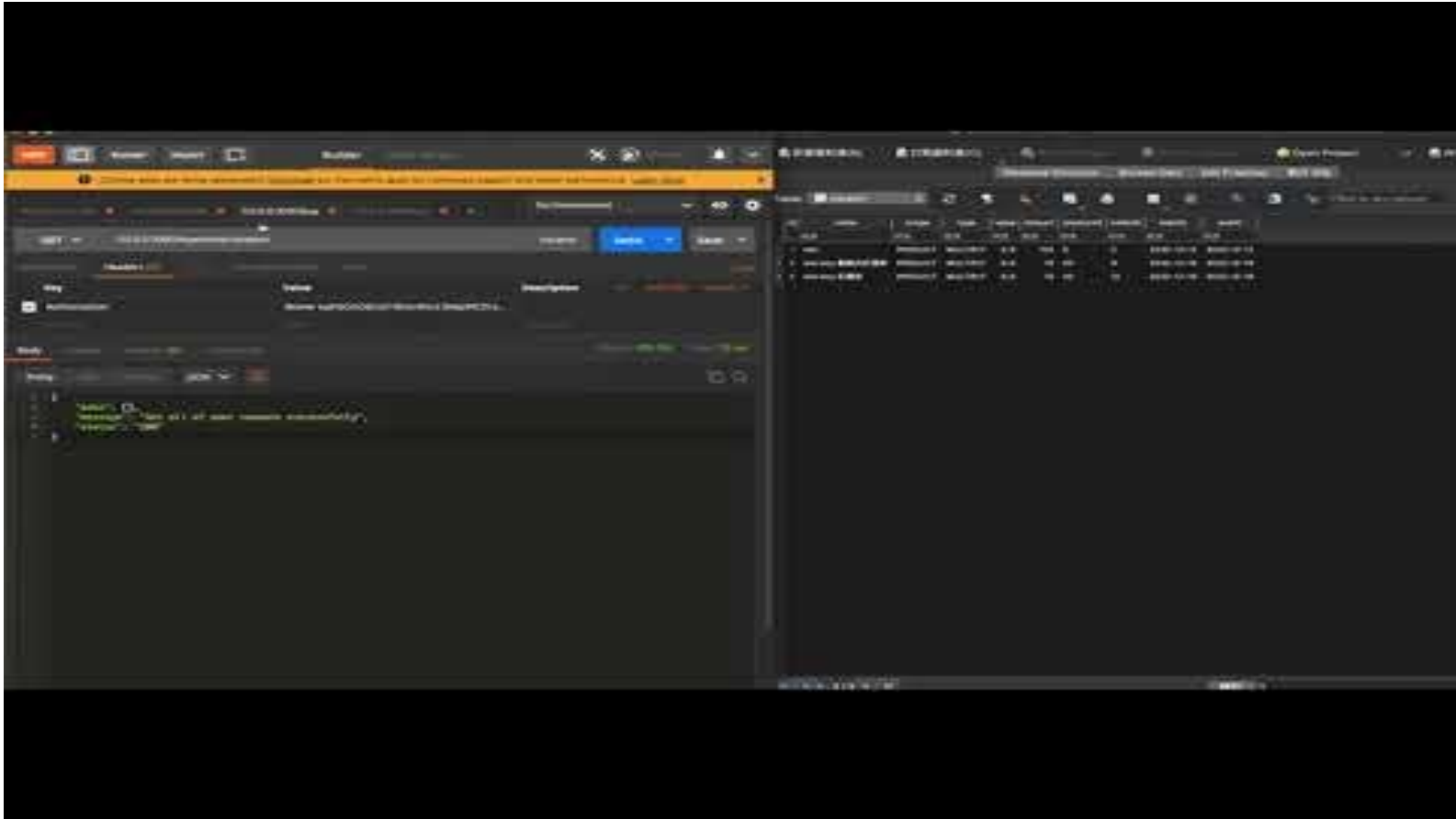
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# API implementation – DB Activities



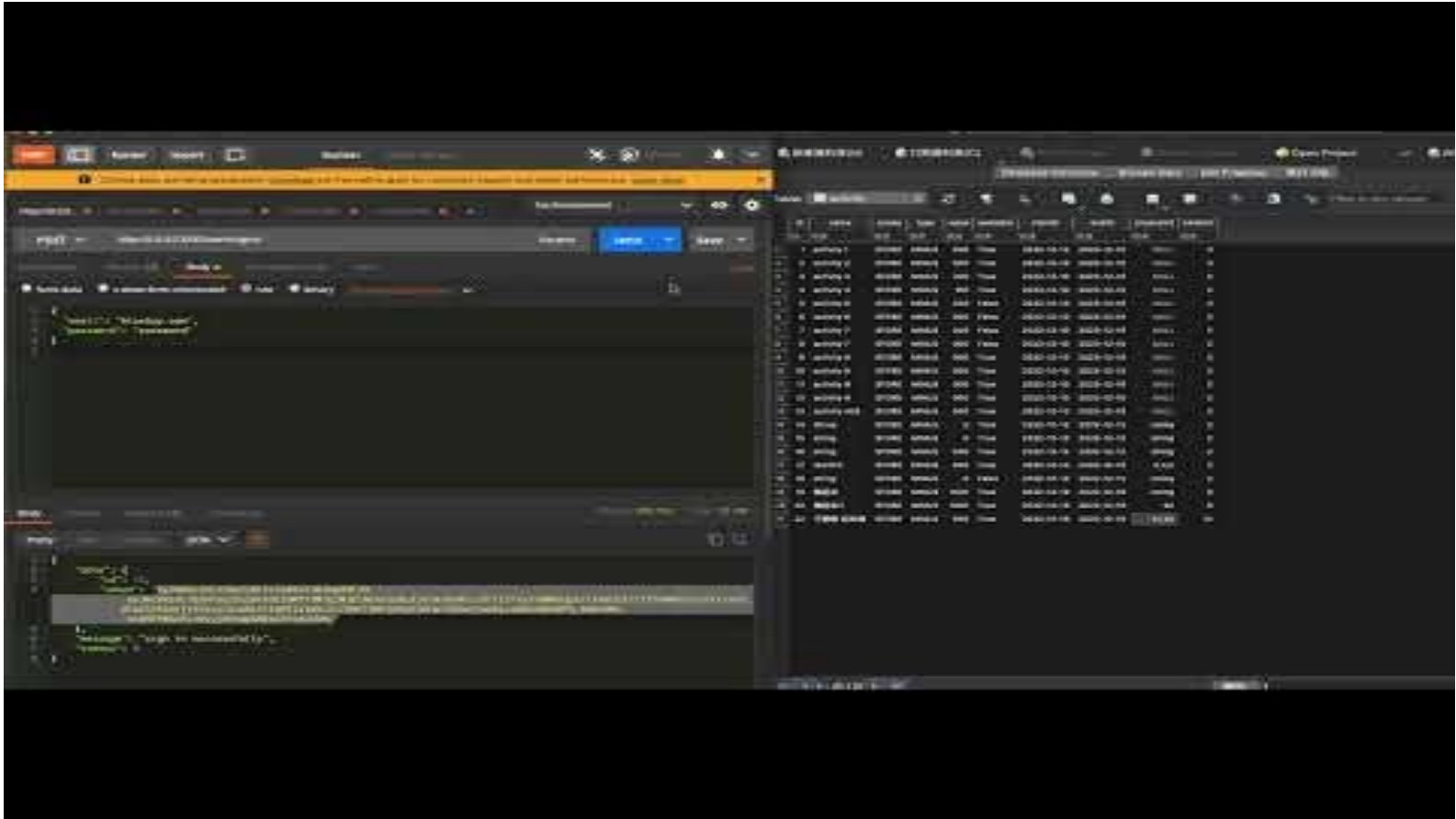
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# API implementation – DB Coupons



[https://www.youtube.com/watch?v=ZnRUSxARQBM&list=PLKxvJsJcCzB7P3ljyZb4u6obP7Eh6rh&index=3&ab\\_channel=%E6%9D%8E%E6%98%8E%E8%BB%92](https://www.youtube.com/watch?v=ZnRUSxARQBM&list=PLKxvJsJcCzB7P3ljyZb4u6obP7Eh6rh&index=3&ab_channel=%E6%9D%8E%E6%98%8E%E8%BB%92)

# API implementation – DB Orders



[https://www.youtube.com/watch?v=MtHlo9mv2fQ&list=PLKxvJsJcCzB7P3ljiyZb4u6obP7Elhb6rh&index=4&ab\\_channel=%E6%9D%8E%E6%98%8E%E8%BB%92](https://www.youtube.com/watch?v=MtHlo9mv2fQ&list=PLKxvJsJcCzB7P3ljiyZb4u6obP7Elhb6rh&index=4&ab_channel=%E6%9D%8E%E6%98%8E%E8%BB%92)

## System to be optimized

1. 資料庫的**items**資料表內的**Colors**沒有使用統一的**id**
2. 沒有檢查期限相關資訊
3. 登入格式以及安全問題，**eg.** 檢查**email**是否重複、**email/password**錯誤時回傳訊息
4. **Try-catch** 沒處理好，但不影響實際操作。
5. 回傳資訊有些會包含**foreign key**，應該統整一下**code** 統一每個 **route** 下的回傳資料