

Mini Project Week 6

Let's now maintain all our data in the database. We'll create an orders table and refactor our app to make use of it.

Goals

As a user I want to:

- create a product, courier, or order and add it to a list
- view all products, couriers, or orders
- update the status of an order
- persist my data
- *STRETCH* delete or update a product, order, or courier
- *BONUS* list orders by status or courier
- *BONUS* CRUD a list of customers
- *BONUS* track my product inventory
- *BONUS* import/export my entities in CSV format

Spec

- A `product` should be a `dict`, i.e:

```
{
    "id": 4,
    "name": "Coke Zero",
    "price": 0.8
}
```

- A `courier` should be a `dict`, i.e:

```
{
    "id": 2,
    "name": "Bob",
    "phone": "0789887889"
}
```

- An `order` should be a `dict`, i.e:

```
{
    "id": 1,
    "customer_name": "John",
    "customer_address": "Unit 2, 12 Main Street, LONDON, WH1 2ER",
    "customer_phone": "0789887334",
    "courier": 2, // Courier ID
    "status": "preparing",
    "items": [1, 3, 4] // Product IDs
}
```

```
# we are no longer reading products, couriers, orders and order statuses from files
# we are now reading data from database tables
```

```
CREATE order status list
```

```
PRINT main menu options
```

```
GET user input for main menu option
```

```
IF user input is 0:
```

```
    SAVE products list to products.csv
```

```
    SAVE couriers list to couriers.csv
```

```
    SAVE orders list to order.csv
```

```
    EXIT app
```

```
# products menu
```

```
ELSE IF user input is 1:
```

```
    PRINT product menu options
```

```
    GET user input for product menu option
```

GET user input for product menu option

```
IF user inputs 0:
    RETURN to main menu

# WEEK 5 UPDATE
ELSE IF user input is 1:
    GET all products from products table
    PRINT products

# WEEK 5 UPDATE
ELSE IF user input is 2:
    # CREATE new product

    GET user input for product name
    GET user input for product price
    INSERT product into products table

# WEEK 5 UPDATE
ELSE IF user input is 3:
    # STRETCH GOAL - UPDATE existing product

    GET all products from products table
    PRINT products with their IDs
    GET user input for product ID

    GET user input for product name
    GET user input for product price

    IF any inputs are empty, do not update them
    UPDATE properties for product in product table

ELSE IF user input is 4:
    # STRETCH GOAL - DELETE product

    GET all products from products table
    PRINT products with their IDs

    GET user input for product ID
    DELETE product in products table

# couriers menu
ELSE IF user input is 2:
    PRINT courier menu options
    GET user input for courier menu option

    IF user inputs 0:
        RETURN to main menu

    ELIF user inputs 1:
        PRINT couriers list

# WEEK 5 UPDATE
ELSE IF user input is 2:
    # CREATE new courier

    GET user input for courier name
    GET user input for courier phone number
    INSERT courier into couriers table

# WEEK 5 UPDATE
ELSE IF user input is 3:
    # STRETCH GOAL - UPDATE existing courier

    GET all couriers from couriers table
    PRINT couriers with their IDs
```

```

    GET user input for courier ID

    GET user input for courier name
    GET user input for courier phone number

    IF an input is empty, do not update its respective table property
    UPDATE properties for courier in courier table

    ELSE IF user input is 4:
        # STRETCH GOAL - DELETE courier

        GET all couriers from couriers table
        PRINT courier with their IDs

        GET user input for courier ID
        DELETE courier in couriers table

# orders menu
ELSE IF user input is 3:
    IF user input is 0:
        RETURN to main menu

    ELSE IF user input is 1:
        PRINT orders dictionary

# WEEK 6 UPDATE
ELSE IF user input is 2:
    # CREATE order

    GET user input for customer name
    GET user input for customer address
    GET user input for customer phone number

    GET all products from products table
    PRINT products
    GET user inputs for comma-separated list of product IDs
    CONVERT above user input to list of integers

    GET all couriers from couriers table
    PRINT couriers
    GET user input for courier ID

    SET order status to be 1
    INSERT order into orders table

# WEEK 6 UPDATE
ELSE IF user input is 3:
    # UPDATE existing order status

    GET all orders from orders table
    PRINT orders with their IDs

    GET all order statuses from order_status table
    PRINT order statuses
    GET user input for order status ID
    UPDATE status for order

# WEEK 6 UPDATE
ELSE IF user input is 4:
    # STRETCH - UPDATE existing order

    GET all orders from orders table
    PRINT orders with their IDs
    GET user input for order ID
    GET user input for customer name

```

```
GET user input for customer name
GET user input for customer address
GET user input for customer phone number

GET all products from products table
PRINT products
GET user inputs for comma-separated list of product IDs
CONVERT above user input to list of integers

GET all couriers from couriers table
PRINT couriers
GET user input for courier ID

UPDATE order in orders table
```

```
# WEEK 6 UPDATE
```

```
ELSE IF user input is 4:
```

```
  # STRETCH GOAL - DELETE courier
```

```
GET all orders from orders table
PRINT orders with their IDs
```

```
GET user input for order ID
DELETE order in orders table
```