Mini Project Week 5

CSV is great, but there is a better option. Let's store our couriers, and products in a database, we'll leave orders as they are for now.

An order's courier, and items properties currently use indexes to reference these entities, we're going to change this to use ids instead.

Remember to update unit-tests.

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 update or delete a product, order, or courier
- BONUS list orders by status or courier
- 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:

```
{
  "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
}
```

• Data should be persisted to a .csv file on a new line for each order, ie:

```
# ORDER
John, "Unit 2, 12 Main Street, LONDON, WH1 2ER", 2, preparing, "1,3,4"
```

Pseudo Code

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

LOAD orders list from orders.csv

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
   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
   ELSE IF user input is 2:
       GET user input for customer name
       GET user input for customer address
       GET user input for customer phone number
       PRINT products list with its index values
       GET user inputs for comma-separated list of product index values
       CONVERT above user input to list of integers
       PRINT couriers list with index value for each courier
       GET user input for courier index to select courier
       SET order status to be 'PREPARING'
       CREATE new order dictionary with above properties
       APPEND order to orders list
   ELSE IF user input is 3:
       # UPDATE existing order status
       PRINT orders list with its index values
       GET user input for order index value
       PRINT order status list with index values
       GET user input for order status index value
       UPDATE status for order
   ELSE IF user input is 4:
       # STRETCH - UPDATE existing order
       PRINT orders list with its index values
       GET user input for order index value
```

```
FOR EACH key-value pair in selected order:

GET user input for updated property

IF user input is blank:

do not update this property

ELSE:

update the property value with user input

ELSE IF user input is 5:

# STRETCH GOAL - DELETE courier

PRINT orders list

GET user input for order index value
```

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DELETE order at index in order list