**Mini Project Week 6**

Let's now maintain all our data in the database. We'll create an **orders table** and an **order status 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 table

view all products, couriers, or orders

update the status of an order

persist my data in a database

*STRETCH* delete or update a product, order, or courier

*BONUS* display 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 **row** in the **products table** should contain the following information:

{

"id": 4,

"name": "Coke Zero",

"price": 0.8

}

A **row** in the **couriers table** should contain the following information:

{

"id": 2,

"name": "Bob",

"phone": "0789887889"

}

A **row** in the **orders table** should contain the following information:

{

"id": 1,

"customer\_name": "John",

"customer\_address": "Main Street, LONDON",

"customer\_phone": "0789887334",

"courier": 2, *// Courier ID*

"status": 1, *// Order status ID*

"items": "1, 3, 4" *// Product IDs*

}

A **row** in the **order\_status table** should contain the following information:

{

"id": 1,

"order\_status": "preparing"

}

**Pseudo Code**

# we are **no longer reading** products, couriers, orders and order statuses from **files**

# we are **now reading data from database tables**

PRINT main menu options

GET user input for main menu option

IF user input is 0:

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

# WEEK 5 UPDATE

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

# WEEK 5 UPDATE

ELIF user inputs 1:

GET all couriers from couriers table

PRINT couriers

# 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

# WEEK 5 UPDATE

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:

PRINT order menu options

GET user input for order menu option

IF user input is 0:

RETURN to main menu

# WEEK 6 UPDATE

ELSE IF user input is 1:

GET all orders from orders table

PRINT orders

# 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 string e.g. "1,3,4"

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 user input for order ID

GET all order statuses from order\_status table

PRINT order statuses

GET user input for the updated order status ID

UPDATE status for the 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 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 a string e.g. "2,1,3"

GET all couriers from couriers table

PRINT couriers

GET user input for courier ID

IF an input is empty, do not update its respective table property

UPDATE order in orders table

# WEEK 6 UPDATE

ELSE IF user input is 4:

# STRETCH GOAL - DELETE order

GET all orders from orders table

PRINT orders with their IDs

GET user input for order ID

DELETE order in orders table