

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
}
```

- START APP
- SELECT ALL FROM `PRODUCTS`, `COURIERS`, AND `ORDERS` TABLES AND CACHE
- SHOW LIST OF OPTIONS TO USER AND ACCEPT NUMERICAL INPUT
- IF USER ENTERS `0` THEN EXIT APP
- IF USER ENTERS `1` THEN SHOW `PRODUCT MENU`
 - IF USER ENTERS `0` RETURN TO MAIN MENU
 - IF USER ENTERS `1`
 - SELECT ALL FROM `PRODUCTS` TABLE AND CACHE
 - PRINT OUT `PRODUCTS` TO SCREEN
 - IF USER ENTER `2` CREATE NEW `PRODUCT`
 - ASK USER FOR THE NAME OF THE `PRODUCT`
 - ASK USER FOR THE PRICE OF THE `PRODUCT`
 - INSERT INTO `PRODUCTS` TABLE
 - UPDATE `CACHED PRODUCTS`
 - *STRETCH* IF USER ENTERS `3` UPDATE `PRODUCT`
 - ASK USER TO SELECT A `PRODUCT` TO UPDATE OR `0` TO CANCEL
 - FOR EACH `PRODUCT` PROPERTY
 - ASK USER FOR UPDATED DATA OR LEAVE BLANK TO SKIP
 - UPDATE COLUMN IN DB IF NOT BLANK
 - UPDATE `CACHED PRODUCTS`
 - *STRETCH* IF USER ENTERS `4` DELETE `PRODUCT`

- ASK USER TO SELECT A PRODUCT TO DELETE OR 0 TO CANCEL
- DELETE ROW FROM PRODUCTS TABLE
- UPDATE CACHED PRODUCTS
- IF USER ENTERS 2 THEN SHOW COURIER MENU
 - IF USER ENTERS 0 RETURN TO MAIN MENU
 - IF USER ENTERS 1 PRINT OUT COURIERS TO SCREEN
 - IF USER ENTER 2 CREATE NEW COURIER
 - ASK USER FOR THE NAME OF THE COURIER
 - ASK USER FOR THE PHONE OF THE COURIER
 - INSERT INTO THE COURIERS TABLE
 - UPDATE CACHED COURIERS
 - *STRETCH* IF USER ENTERS 3 UPDATE COURIER
 - ASK USER TO SELECT A COURIER TO UPDATE OR 0 TO CANCEL
 - FOR EACH COURIER PROPERTY
 - ASK USER FOR UPDATED DATA OR LEAVE BLANK TO SKIP
 - UPDATE COLUMNS IN COURIERS TABLE IF NOT BLANK
 - UPDATE CACHED COURIERS
 - *STRETCH* IF USER ENTERS 4 DELETE COURIER
 - ASK USER TO SELECT A COURIER TO DELETE OR 0 TO CANCEL
 - REMOVE THIS ITEM FROM THE COURIERS TABLE
 - UPDATE CACHED COURIERS
- IF USER ENTERS 3 THEN SHOW ORDER MENU
 - IF USER ENTERS 0 RETURN TO MAIN MENU
 - IF USER ENTERS 1 PRINT OUT ORDERS TO SCREEN
 - IF USER ENTER 2 CREATE NEW ORDER
 - ASK USER FOR THE NAME OF THE CUSTOMER
 - ASK USER FOR THE ADDRESS OF THE CUSTOMER
 - ASK USER FOR THE PHONE OF THE CUSTOMER
 - ASK USER TO SELECT FROM THE PRODUCT LIST UNTIL 0 TO CANCEL
 - SET ORDER PRODUCTS TO BE A LIST OF PRODUCT IDS
 - ASK THE USER TO SELECT A COURIER FROM THE LIST
 - SET ORDER COURIER TO BE A COURIER ID
 - SET THE DEFAULT ORDER STATUS TO BE PREPARING
 - INSERT ORDER INTO ORDERS TABLE
 - UPDATE CACHED ORDERS
 - IF USER ENTERS 3 UPDATE ORDER STATUS
 - ASK USER TO SELECT AN ORDER TO UPDATE OR 0 TO CANCEL
 - ASK USER TO SELECT A NEW STATUS FROM A LIST OF STATUSES
 - UPDATE THE ORDER IN DB
 - *STRETCH* IF USER ENTERS 4 UPDATE ORDER
 - ASK USER TO SELECT AN ORDER TO UPDATE OR 0 TO CANCEL
 - FOR EACH ORDER PROPERTY
 - ASK USER FOR UPDATED DATA OR LEAVE BLANK TO SKIP
 - UPDATE ORDER COLUMNS IN DB IF NOT BLANK
 - UPDATE CAHCED ORDERS
 - *STRETCH* IF USER ENTERS 5 DELETE ORDER
 - ASK USER TO SELECT AN ORDER TO DELETE OR 0 TO CANCEL
 - REMOVE THIS ITEM FROM THE ORDERS TABLE
 - UPDATE CACHED ORDERS