Home Assignment - Orders management
By Sol Ze

Technology stack:

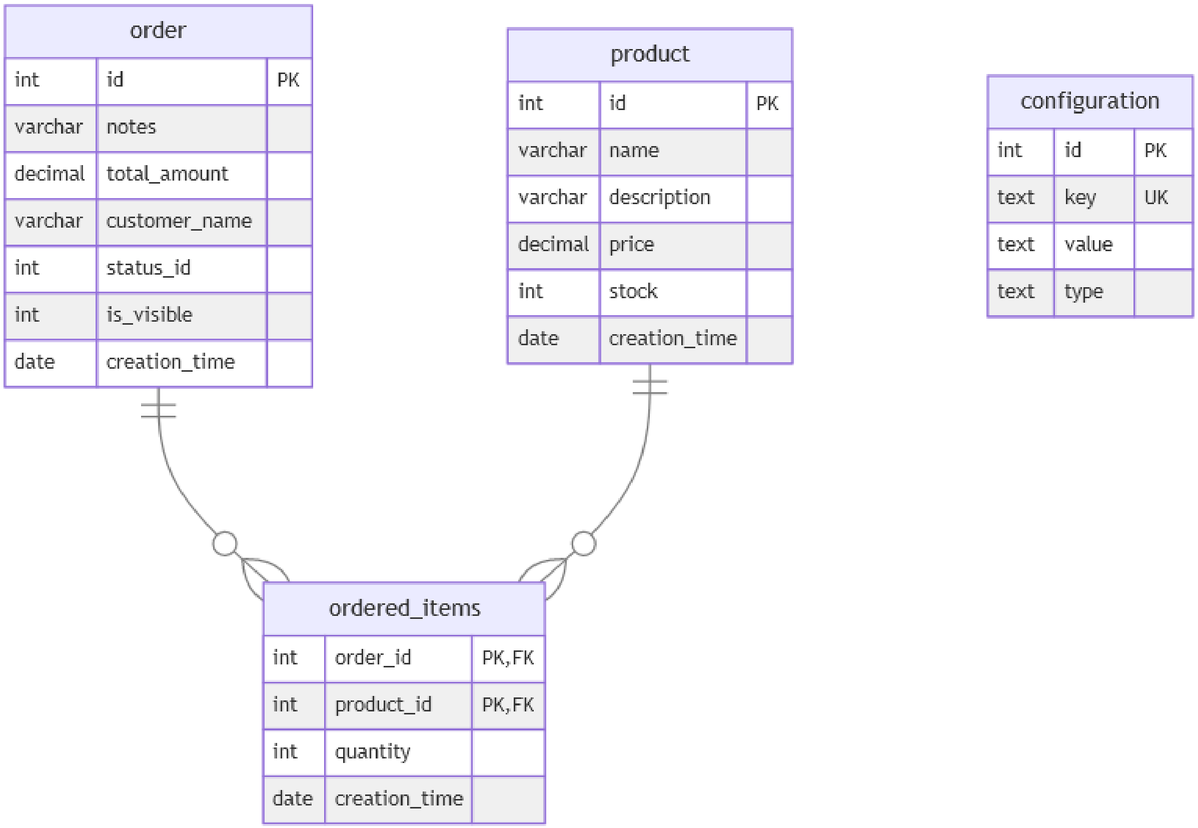
Backend:

- Database: SQLite
- NodeJS, Express
- Axios for API fetching
- Joi for data validations

Frontend:

- React TyperScript
- React redux toolkit
- MUI, SCSS for UI
- Axios for API
- React router dom

Database design:



order		
int	id	PK
varchar	notes	
decimal	total_amount	
varchar	customer_name	
int	status_id	
int	is_visible	
date	creation_time	

product		
int	id	PK
varchar	name	
varchar	description	
decimal	price	
int	stock	
date	creation_time	

configuration		
int	id	PK
text	key	UK
text	value	
text	type	

ordered_items		
int	order_id	PK,FK
int	product_id	PK,FK
int	quantity	
date	creation_time	

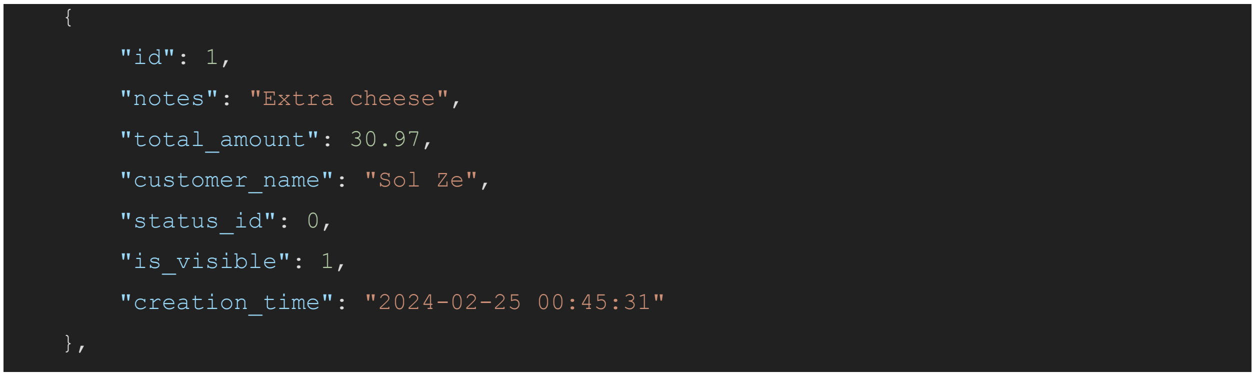
* I chose to add one more table because the relationship between “order” and “product” is many-to-many, So we need a new table which contains the primary keys from “order” and “product” [order_id, product_id PK].

* Also, I wanted a table to save quantities of ordered items rather than saving them as a text field in “order” tbl.
* The configuration table is designed dynamically so it can fit additional types of settings.

API End-points:

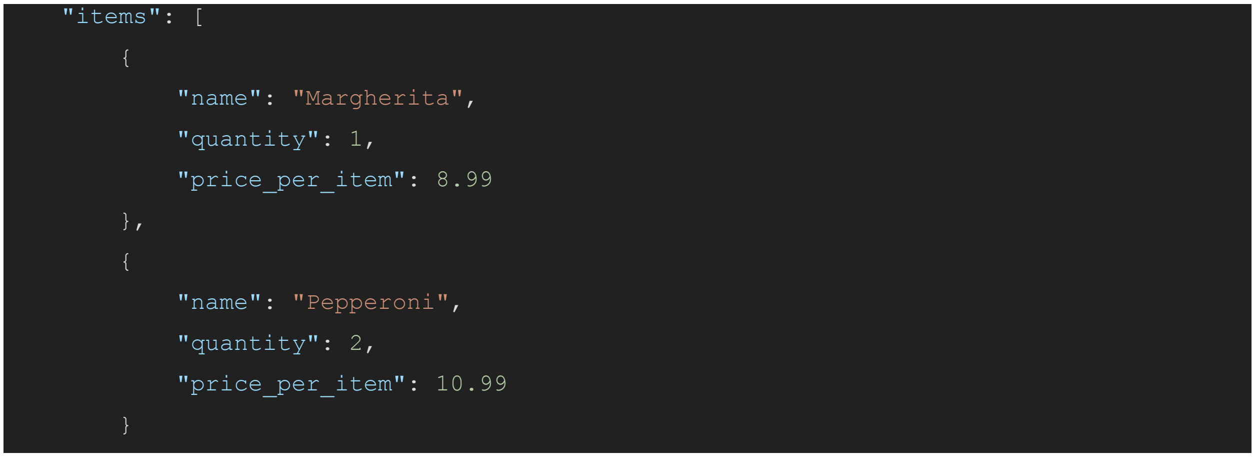
Route	Method	Endpoint	response	description
apo/orders	GET	/api/orders/orders	Array of objects of type<Order>*	Returns all orders
api/orders	GET	/api/orders/:id	Object<order> which contains item array of objects*	Return full details about an order by its id.
api/config	GET	/config/configurations	Array of objects of type <Configuration>	Returns all configurations for the store

Order object:



```
    {
        "id": 1,
        "notes": "Extra cheese",
        "total_amount": 30.97,
        "customer_name": "Sol Ze",
        "status_id": 0,
        "is_visible": 1,
        "creation_time": "2024-02-25 00:45:31"
    },
```

Items object:



```
    "items": [
        {
            "name": "Margherita",
            "quantity": 1,
            "price_per_item": 8.99
        },
        {
            "name": "Pepperoni",
            "quantity": 2,
            "price_per_item": 10.99
        }
    ]
```

Configuration object:

```
[
    {
        "id": 1,
        "key": "show_component",
        "value": "1",
        "type": "boolean"
    }
]
```

Running the project:

Backend

\react-ts-orders-management\Food_Management_API
Open terminal -> npm run dev

Frontend

\react-ts-orders-management\Frontend
Open terminal -< npm start

For any questions or feedback contact me by email: solze369@gmail.com