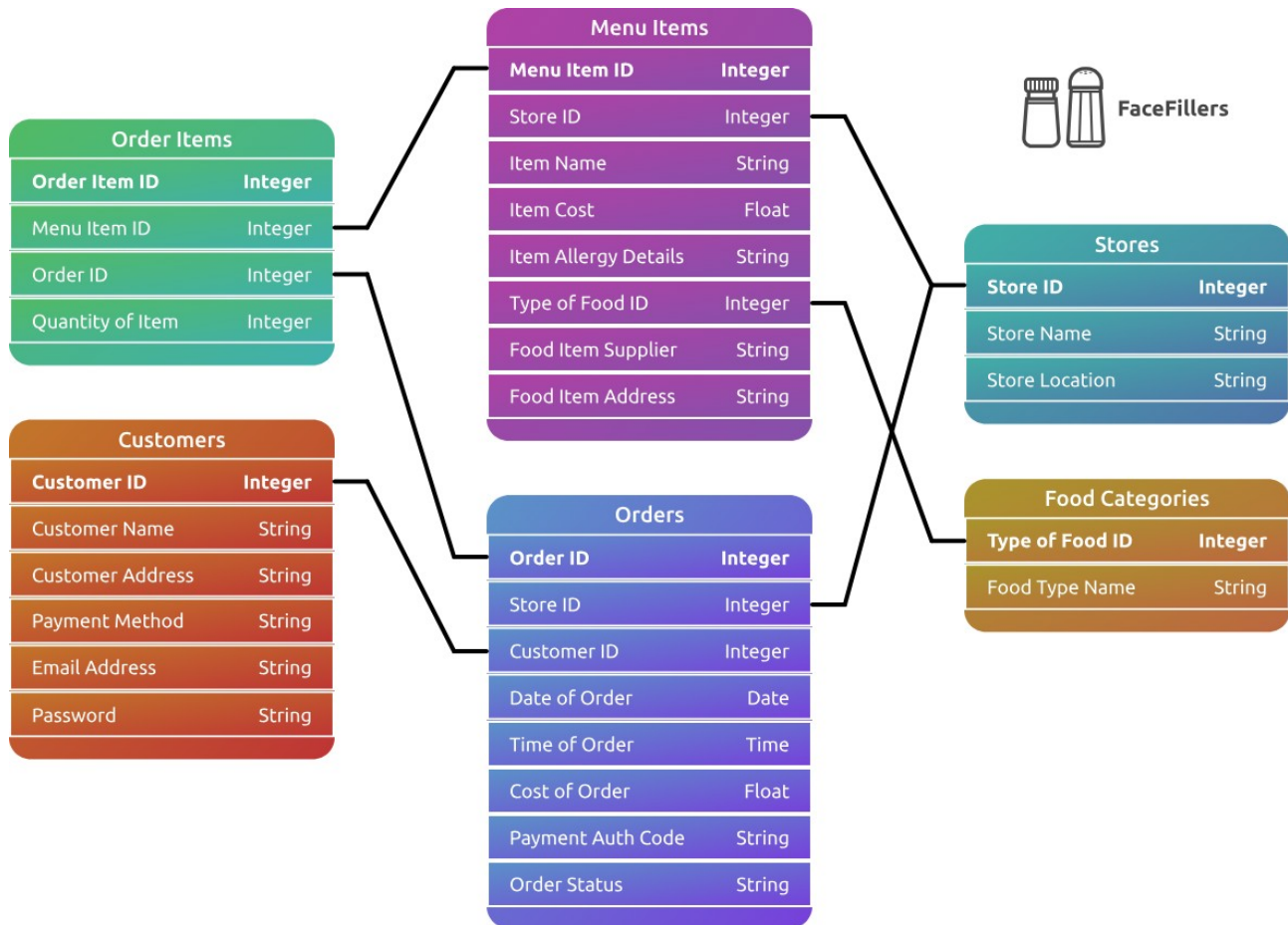
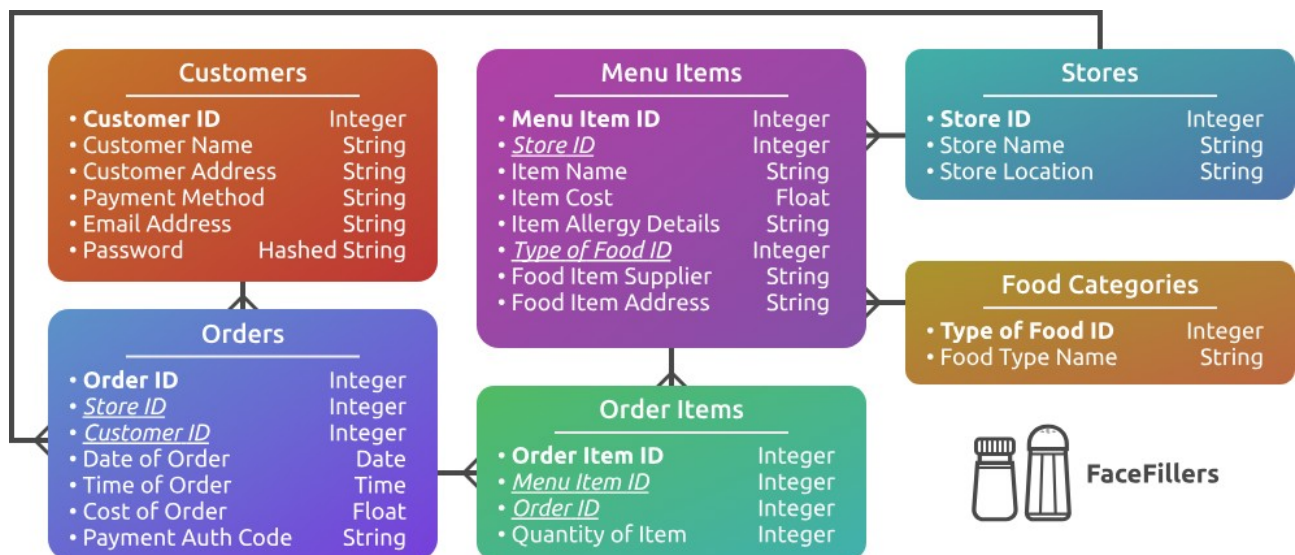


FaceFillers Database Design



This schema outlines 6 tables that contain information provided within the brainstormed brief, along with some additional information including store name, location, and order item information. This database is normalised to the 3rd normal form, fitting all of the criteria for 1st, 2nd and 3rd normal form.

These tables contain information that could be required by three separate parties; the customer, the store, and the delivery handler. These three parties have different requirements for the information they need to store and access. Stores primarily need information to be accessible to customers, providing their menu along with food categorisation, allergen information and cost. Users require this information, along with a way to place orders using a set of items of their choosing, from a store of their choice. Conversely, delivery handlers only require order information, including the store address, order time, and customer address.



This Entity Relationship Diagram outlines the relationships between each table, showing that, for example, each customer has many orders, while each order has only one customer. This also shows the primary keys and foreign keys shown in the schema.

FaceFillers - Arnie's Italian

Pasta La Vista

Mains (Pasta)

3

×

£7.99

Ciabatta

Side Dishes

2

×

£2.99

Marinara

Mains (Pizza)

1

×

£9.99

Stracciatella

Mains (Soup)

1

×

£5.99

Basket

3x Pasta La Vista £23.97
2x Ciabatta £5.98
1x Marinara £9.99
1x Stracciatella £5.99

Total Cost: £45.93

Place Order

This UI layout shows the order confirmation page and basket system, which is accessible to the user. It lets them change item quantity, delete items, add items, and place an order. This order confirmation adds to the Order Items table, along with the Orders table.

This UI layout shows the other end of this system, where the store can see which orders have been placed, including the time, order number, and the order contents. This allows them to prepare orders and hand them off to the delivery handlers.

FaceFillers - Order List

Arnie's Italian

Order 102

Placed at 7:59pm - 22 minutes ago.

3x Pasta La Vista £23.97
2x Ciabatta £5.98
1x Marinara £9.99
1x Stracciatella £5.99

Order 104

Placed at 8:07pm - 14 minutes ago.

1x Pasta La Vista £7.99
2x Ciabatta £5.98

Order 105

Placed at 8:11pm - 10 minutes ago.

1x Carbonara £7.99
2x Pasta La Vista £15.98
2x Ciabatta £7.99
1x Margherita £9.99
1x Marinara £9.99
1x Stracciatella £5.99



FaceFillers - Delivery App



Current Order: Order 102

Placed at 8:06pm

Arnie's Italian
Westcott
RH5 2RP
078 7006 5125



Delivery Address

47 Dover Road
Westcott
RH4 5SR
070 5904 6299

Order Picked Up

Order Delivered

This UI layout is designed to be a mobile app that the delivery handler uses, showing them various information about a single order. This information includes the addresses of the store and the customer, along with the order number and the time of purchase. The delivery handler controls the state of the order, with an order being removed from the Store page whenever the courier picks up the order. The buttons at the bottom of this UI control both pickups and delivery status, which can only be pressed in order.

Not shown is a list of the items in the order, which could be used by the courier to confirm they have the correct items and assist with customer support during delivery.



FaceFillers - Order List

Arnie's Italian

Add item to Menu



Name:

Cost:

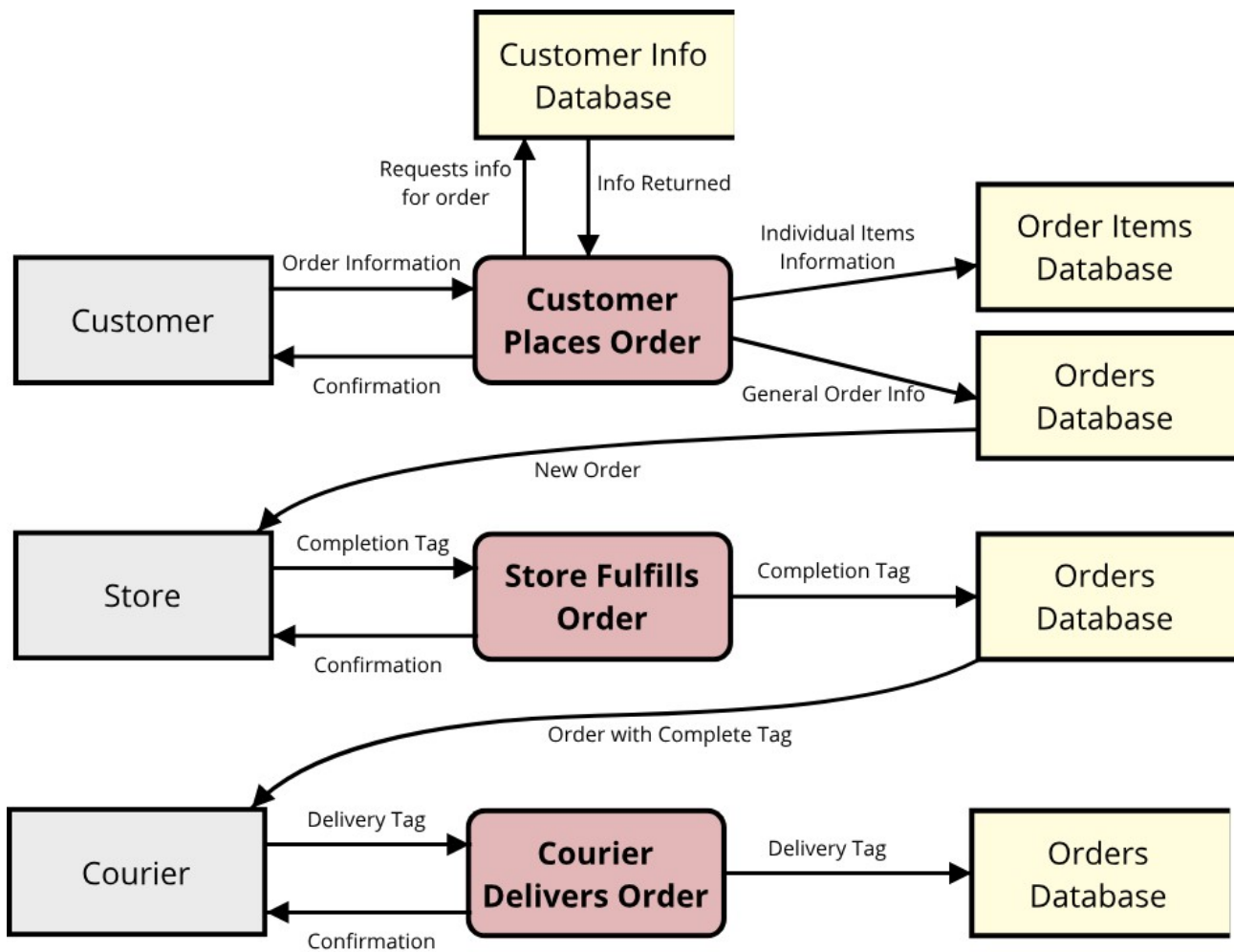
Allergen Info:

Food Type:

Supplier:

Add Item

This layout shows a page that stores can use to add items to their menu, filling all of the necessary information for a row in the Menu Items database. This gives control to stores, allowing them to specify item cost, names, and food types.



This data flow diagram shows the main process that orders go through, with customers having the most involved process of creating orders outright alongside relevant order items. The completion tag and delivery tag rely on the Order Status string contained within the Orders table, allowing information about the general status of the order to be communicated between the Customer, Store, and Courier.