CS2810 - Group Report

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March 23, 2018

Description Of Components

Views

See *Static* for links to the Java Script Documentation.

Customer

Start Order Page

Menu Page

Once the customer has clicked Start Order, they will be brought to the Menu Page. The customer can now pick which items they want to order by searching through four different categories. See *Figure 1* and *Figure 2*.
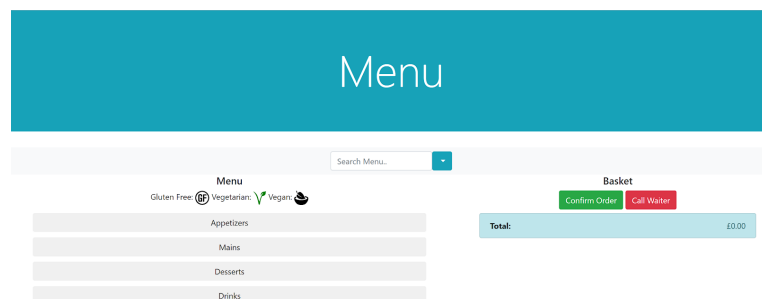

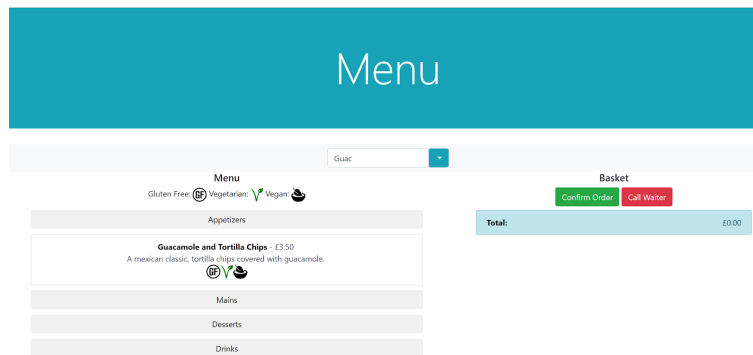
Figure 1: The Menu Page with Closed Categories

Figure 2: The Menu Page with Open Categories

A customer can also search for an item, filtering by a specific category (vegan/vegetarian/gluten free) which will only display items that meet the category criteria. See *Figure 3*.
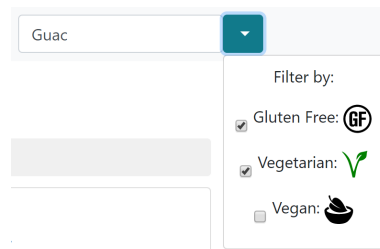

Figure 3: The Menu Filtering Section

Once the customer clicks on the menu item they want to order, an item summary will pop up and will display more information such as the Price and the description of the item. They can also add specific instructions that will then be seen by the chefs that cook the meal. When the customer clicks the Add to Order button, the order is added to the list. See *Figure 4*.
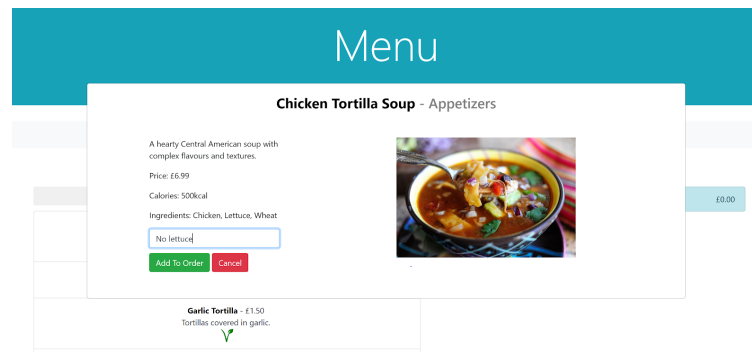
Figure 4: The Menu Item Modal

The menu items that the customer has added to the order is then displayed under the basket order list. This list will show the items that have been added, their individual price and the total price. Once the customer is happy that they have all the items they want to order, they will click Confirm Order to send the list to the basket page. See *Figure 5*.
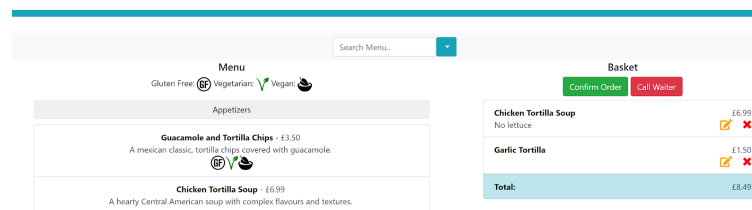

Figure 5: The Menu Page with an Order
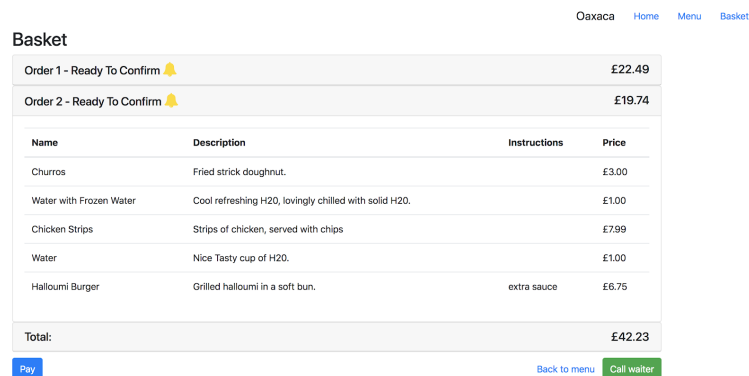
Basket Page

See *Figure 6*.

This is the page the customer is taken to once they have selected and confirmed what they want to order. Customers can add to the same order by navigating to the basket page via the link in the top right of the page, or can start a new order by navigating to the home page.

Each order has an order number, shows the status of the order (along with a little symbol that reflects this) and the price for that order. Orders contain a table with all the items in that order. The table includes the name of each item, a short description, any instructions that were added and the price. If more than one of the same item is added to the order, it is shown by a repetition of the item in the order table.

At the bottom of the accordion element the total price is displayed for all orders so that customers have an up to date idea of how much their meal

is costing them. The call waiter button simply notifies a waiter that the particular table needs assistance and confirms with the customer that this has been done via a modal. There is also a back to menu button next to call waiter for convenience.

This view gives the customer a good idea of what is going on with their orders and allows them to plan what else they may want to get accordingly.

Figure 6: The Customer's Basket Page

Waiter

Orders Page

Edit Order View

Kitchen

Manager

Manager Home Page

Edit Menu Page

Assign Tables Page

Employee Page

Server

The server is responsible for providing communication and authentication between the user interface and the database. We use Spark to handle the communication between the front end and the server itself. We have created numerous classes for the purpose, more detail is provided in *Endpoints*.

Also handled by the server is the communication and the creation of the database, we use the Hibernate ORM and JPA to create and communicate to the PostgreSQL database. More detail on how this is done is provided in *Database*.

Database

We have a database with 19 related tables, see *Figure 7*.

The database stores everything including the staff, the menu and the customers orders. It also stores the logged in sessions and the data needed for push notifications. The database was designed to allow the user to start multiple orders and store them onto a transaction that allows the users to pay for all there orders in one go.
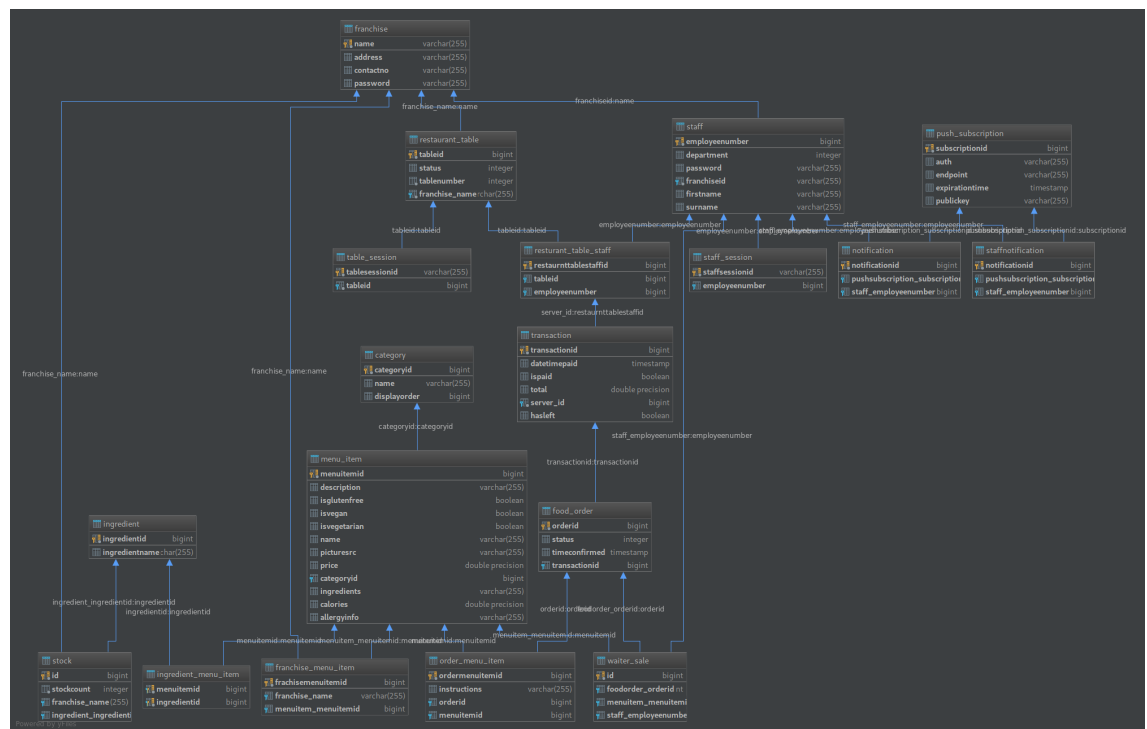

Figure 7: Generated by DataGrip

Description Of Packages

Database

Implemented Components

This package implements the following components:

- A fully relational database in hopefully third normal form. All created with Hibernate ORM.

- A Database Manager Singleton for easy access to creating JPA Entity Managers, without the need of creating more than one factory.

Functionality

For details on the functionality see *the Database Package overview* and *the Table Package overview.*

Endpoints

Implemented Components

Functionality

Static

Implemented Components

Functionality

Utility

Implemented Components

Functionality

User Stories

Fully Completed

These are the completed user stories.

Customer Stories

- Electronic Payment

- View Menu

- Ordering

- Menu Filtering

- Calling The Waiter

- Allergies And Calories

- Food Pictures

- Order Tracking

- Intuitive Ordering

Waiter Stories

- Notification For Delivery

- Cancel Order

- Order Times

- Payment Information

- Order Confirmation

- Table Assignment

- Mark Order as Delivered

- Client Needs Help

- Add Extra Sales

- Change Status Of An Order

Kitchen Stories

- Notify Waiters

- Confirmed Customer Order

- Order Times

Manager Stories

- Assign Tables

- Set Prices

Nearly Completed

These stores are worthy of a mention as they are very nearly finished.

Manager Stories

- Adjust Menu: The only feature left uncompleted is uploading an image to the new menu item or when editing a menu item.

- Add Staff: The only feature left is the ability to reset a users password.

Statement of Relative Contribution

Name	Design Mark	Coding Mark	Other Mark	Signature
Toby	20%	16%	13%	
Andrew	12%	14%	13%	
Marcus	20%	16%	18%	
Roger	12%	15%	17%	
Robin	12%	13%	13%	
Jonathon	12%	13%	13%	
Johan	12%	13%	13%	