CS2810 - Group Report

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Description Of Components

Views

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*.

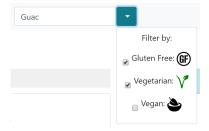


Figure 3: The Menu Filtering Section

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*.

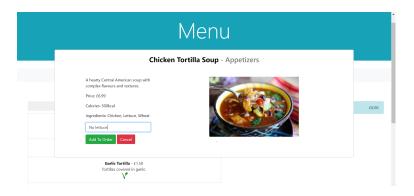


Figure 4: The Menu Item Modal

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.

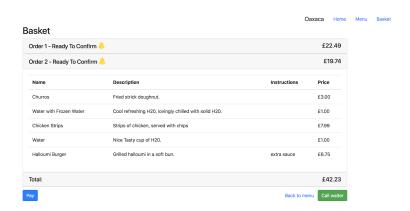


Figure 6: The Customer's Basket Page

Payment

This is the payment form, see *Figure 7*. It forms a part of the Basket page and is made visible when the pay button is pressed. On this page, the customer enters several details. Their email address is used to send the customer an email receipt, and their card details are used to debit their account. The user enters these details and then clicks the Pay button, which also displays the total for the Transaction. Upon successful payment, the customer will be redirected to the start order page and they will be free to leave.

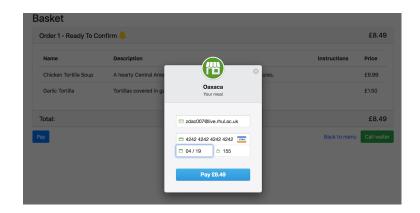


Figure 7: The Customer's Payment Form

Waiter

Orders Page

Edit Order View

Kitchen

Manager

Manager Home Page

This is the manager home page *Figure 8*. You are taken here after logging in with a manager account. From here you can access the all of the manager pages and also the staff portals.



Figure 8: The Manager's Menu

Edit Menu Page

This page lists all the menu items currently on the franchises menu. You can edit any item by clicking the yellow edit button next to it, or remove it from the menu by clicking the red cross. Clicking the Show All Menu Items will also show the items which are not on the menu. See *Figure 9*



Figure 9: Editing Menu

If the item is not on the menu, it will have a green plus instead of a red cross. Clicking on that will add it to the franchise menu. If you want to add a new menu item which does not exist, you can select the Add New Menu Item button at the bottom of the page. See *Figure 10*.



Figure 10: Editing Menu

Clicking this button will bring up a wizard which will guide you through the process of creating a new menu item. See *Figure 11*, 12 and 13.

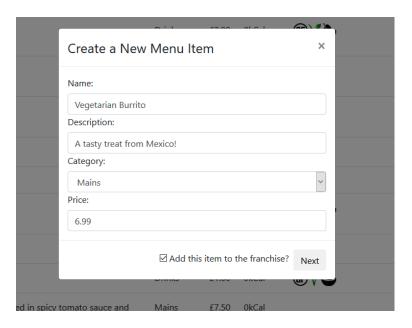


Figure 11: Editing Menu Wizard

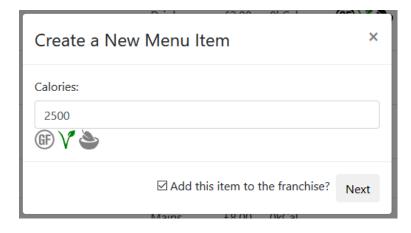


Figure 12: Editing Menu Wizard

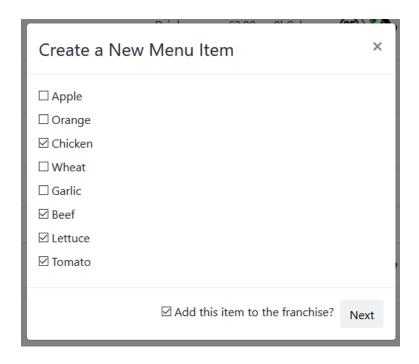


Figure 13: Editing Menu Wizard

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 14.

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.

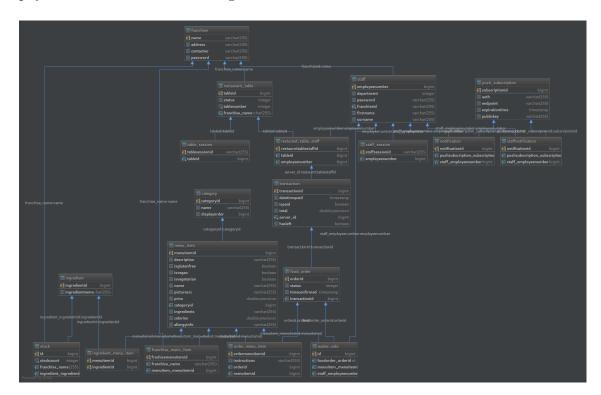


Figure 14: Generated by DataGrip

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.

See Table Overview for more details.

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

See Database Overview for more details.

Endpoints

Implemented Components

This package contains classes that link the front end to the database.

• Authentication classes to authenticate a users login to stop unauthorized access.

See Authentication Overview for details.

• Ingredient classes to provide end points that interact with the ingredient table in the database.

See Ingredients Overview for details.

• Manger classes to provide the end points necessary to create the implemented manager user stories.

See Manger Overview for details.

• Menu classes to provide the end points needed to load and edit the menu.

See Menu Overview for details.

• Notification classes that provide our push notification service, including auto updating the web pages.

See Notification Overview for details.

• Order classes to provide the ability to create, view and edits for both the customer view and the waiter view.

See Order Overview for details.

• Payment classes to provide the Stripe functionality so they customers can pay by card.

See Payment Overview for details.

• Table classes to get the list of table, change there status and change which waiters are assigned to which table.

See Tables Overview for details.

• Transaction classes to allow the front end to get details on the current transaction.

See Transaction Overview for details

Static

Implemented Components

• An AJAX Wrapper to easily make Post and Get requests.

See AJAX Wrapper for more details.

• A Customer landing page, that allows the users to start an order.

See Customer Home for more details.

• A Customer menu page, that allows the customer to view the menu and add items to there order.

See Customer Menu for more details.

- A Waiter page, that allows a waiter to see the current orders for a table, confirm and edit those orders. As well as manage the status of tables. See *Waiter* for more details.
- A Kitchen page, that allows kitchen staff the orders that need to be cooked and indicate when they are done cooking.

See *Kitchen* for more details.

• An Edit Menu page for the manager, so the manager can update the menu.

See Edit Menu for more details.

• An Edit Employee page for the manager, so the manager can edit and create new employees.

See *Edit Employee* for more details.

• An Assign Tables page for the manager, that allows them to assign waiters to table.

See Assign Tables for more details.

• Push notifications that allow both waiters and kitchen staff to be kept up to date.

See *Notifications* for more details.

Utility

Implemented Components

This package implements a GSON Singleton to limit the need of creating numerous GSON objects for each of the end point classes.

See *Utility Package* for more details.

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%	Antien May
Marcus	20%	16%	18%	
Roger	12%	15%	17%	PHILLIP
Robin	12%	13%	13%	
Jonathon	12%	13%	13%	Jeli
Johan	12%	13%	13%	18Ren