

# Project Handover Report

Team 30

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## Team Details

**Team number:** 30

**Development group:** 10

**Role:** Office/Management

**Coach:** Konstantin Pozdniakov

### **Members:**

-Sultan Alhaider

-Betul Cilenk

-Adam Hussain

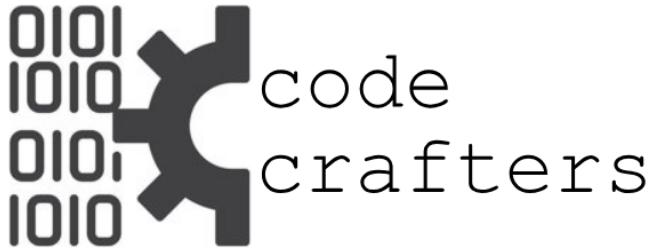
-William Leslie

-Maheen Matin

-Martinson Yan

**Team name:** Code Crafters

**Team logo:**



**Title:** Handover Report Overview

**Author(s):** Maheen Matin

### Version history:

Version	Note	Date	Author
1.0	Created	20/04/2024	MM

## Introduction

This document provides an overview of the Handover Report. The first section of the Handover Report contains user documentation. The second section contains supporting documentation of software and data structures. The third section contains code documentation.

## Purpose

The handover report provides documentation for our application, ensuring that any individuals who work on (or with) our application in the future have a clear understanding of our code - as well as its functionality and implementation.

## Scope

The Handover Report contains a number of documents, each of which specify whether that document is intended for members of Lancaster Restaurant's management/administration staff, IT professionals or both. Please see the "Scope" section in each document for this information.

## Overview of Documents

### Section 1: User documentation

- User Guide
- Technical Manual
- Deployment Plan

### Section 2: Supporting documentation

- Functional Requirements Analysis Document
- Analysis Class Diagram
- Design Class Diagram
- State Machine Diagram
- Deployment Diagram
- Entity Relationship Diagram
- Testing Report 1
- Testing Report 2

### Section 3: Code documentation

- GUI Map
- File Structure Diagram
- External Libraries Document

**Title:** User Guide

**Author(s):** Maheen Matin, Martinson Yan

### Version history:

Version	Note	Date	Author
1.2	Added document structure	19/04/2024	MM
1.1	Added images	19/04/2024	MY
1.0	Created	17/04/2024	MM

## Introduction

This document provides information about how to use the Lancaster's Management software. In the first section, instructions for typical use-cases are given as numbered steps. In the second section, solutions for potential issues that the user may experience are described.

## Purpose

Although the Lancaster's Management software has been designed with ease-of-use in mind, the end-user may require a formal explanation for some or all of the features included in the software. This document addresses this concern and provides detailed information about each of the features in the software.

## Scope

This document is intended for the end-user (i.e. the members of the administration/management staff) and provides information on general usage. For a more technically-minded explanation of the software (intended for IT professionals), please see the "Technical Manual".

## Section 1: Typical Use-Cases

- Login: logging in requires a username and a password. By default, both the username and the password are set to "lancaster". This takes the user to the "Home" screen.
- Logout: when in the Home screen, the user can logout by using the "Logout" button. When in any other screen, the user must use the "Back" button to return to the home screen. Then, the user can logout by using the "Logout" button.



- Screen selection: when in the "Home" screen, 5 buttons are displayed on screen. These buttons, from top to bottom, are: "Staff", "Wines", "Menus", "Inventory", "Sales" and "Payroll & HR".
- Exit current screen: any screen (excluding the "Home" screen) can be exited by using the "Back" button. This returns the user to the "Home" screen.
- View staff members on holiday: when in the "Staff" screen, the topmost date selection tool can be used to select a date. When the date is selected, all staff members are grouped into two categories: "On Holiday" and "Working". Staff members that are "On Holiday" for that date are displayed first, followed by staff members that are "Working" on that date.

The screenshot shows the "Staff" screen with the following details:

- Header:** Back, Lancaster's Staff, User: staff Role: user
- Date Selection:** Date: 20 April 2024 (with a red circle around it)
- Add New Holiday:** Add new staff holiday: [20 April 2024] ... [28 April 2024] ... John Smith Add Holiday
- ON HOLIDAY:**
  - John Smith FOH 15 May 1990 123 Main St
  - Jane Doe FOH 20 Oct 1988 456 Oak Ave
  - Michael Johnson Kitchen 8 Mar 1995 789 Elm St
  - Emily Brown Kitchen 12 Jul 1992 321 Pine St
- WORKING:**
  - Chris Wilson Management 30 Dec 1998 567 Maple Ave
- Settings:** Half Hour Limit (6), Pre Book Limit (10), Max Dining Limit (30), Save changes

- Add a new holiday for a staff member: use the left date picker to select the date marking the beginning of the holiday. Use the right date picker to select the date marking the end of the holiday. Use the drop-down selection tool to select the staff member the holiday is for. Finally, use the "Add" button to add the holiday for the staff member.

The screenshot shows the "Staff" screen with the following details:

- Header:** Back, Lancaster's Staff, User: staff Role: user
- Date Selection:** Date: 20 April 2024 ...
- Add New Holiday:** Add new staff holiday: [20 April 2024] ... [28 April 2024] ... John Smith Add Holiday (with a red circle around it)
- ON HOLIDAY:**
  - John Smith FOH 15 May 1990 123 Main St
  - Jane Doe FOH 20 Oct 1988 456 Oak Ave
  - Michael Johnson Kitchen 8 Mar 1995 789 Elm St
  - Emily Brown Kitchen 12 Jul 1992 321 Pine St
- WORKING:**
  - Chris Wilson Management 30 Dec 1998 567 Maple Ave
- Settings:** Half Hour Limit (6), Pre Book Limit (10), Max Dining Limit (30), Save changes

- Set cover limits: use the upwards-pointing arrow to increase the cover limit. Use the downwards-pointing arrow to decrease the cover limit. Alternatively, manually enter a new cover

limit in the area to the left of the arrows. Once changes are made press the save changes button to save changes.

- View all wines: when in the "Wines" screen, all wines are displayed.
- View wines with low stock: when in the "Wines" screen, the wines with low stock are highlighted in red.

Wines				User: staff Role: user
NAME	YEAR	£ PRICE	STOCK	
Cabernet	2019	25.49 <span>▲ ▼</span>	46 <span>▲ ▼</span>	
Chardonnay	2018	19.99 <span>▲ ▼</span>	40 <span>▲ ▼</span>	
Riesling	2017	29.99 <span>▲ ▼</span>	33 <span>▲ ▼</span>	
Syrah	2018	32.99 <span>▲ ▼</span>	0 <span>▲ ▼</span>	
Barbera	2020	21.99 <span>▲ ▼</span>	60 <span>▲ ▼</span>	
Grenache	2016	27.99 <span>▲ ▼</span>	25 <span>▲ ▼</span>	
Malbec	2019	23.99 <span>▲ ▼</span>	45 <span>▲ ▼</span>	
Moscato	2020	18.99 <span>▲ ▼</span>	55 <span>▲ ▼</span>	
Pinot Grigio	2018	26.99 <span>▲ ▼</span>	21 <span>▲ ▼</span>	
Sauvignon Blanc	2017	22.99 <span>▲ ▼</span>	42 <span>▲ ▼</span>	
		£0.00 <span>▲ ▼</span>	1 <span>▲ ▼</span>	
Name: Merlot	Year: 2024	Price: £ 19.99	Stock: 1	Add wine

- Add new wine: enter a name for the wine. Then, use the arrows or the area to the left the arrows to set the year, price and stock level for the wine. Finally, use the "Add" button to add the new wine.
- View menu for current week: when in the "Menus" screen, the menu for the current week is displayed as the topmost menu. Furthermore, it is displayed in a lighter color and is labelled with "Current week".
- View menus for future weeks: when in the "Menus" screen, the menus for the next three weeks are displayed directly below the topmost menu. Furthermore, they are displayed in a dark color and are labelled with the date ranges that they correspond to.
- Edit menu for a given week: clicking anywhere on a menu will take the user to the "Edit menu" screen. The user can change the price and description for a dish in the menu. Furthermore, the user can change the allergen(s) and wine(s) associated with the dish. When edits are complete, use the "Save changes" button to save the edits, then use the "Back" button to return to the "Menus" screen.
- View ingredients inventory: when in the "Inventory" screen, all ingredients are displayed.
- View ingredients with low stock: when in the "Inventory" screen, the ingredients with low stock are highlighted in red.

Inventory					User: staff Role: user
ORDER	NAME	STOCK	PRICE	ALLERGEN	
<input checked="" type="checkbox"/> Add to order	Chicken Breast	5/10pc	£7.99		
<input checked="" type="checkbox"/> Add to order	Beef Steak	30/8pc	£12.99		

- Make an order: In the 'Inventory' screen the user can click the checkbox to choose what ingredients to order. The user can also choose to click the buttons at the bottom of the screen to 'Select Low Stock', 'Select All' or 'Unselect All.' Once the user has chosen what they want to order, they must press the 'Order Selected' button.

ORDER	NAME	STOCK	PRICE	ALLERGEN
<input checked="" type="checkbox"/> Add to order	Chicken Breast	5/10pc	£7.99	
<input type="checkbox"/> Add to order	Beef Steak	30/8pc	£12.99	
<input type="checkbox"/> Add to order	Salmon Fillet	40/12pc	£14.99	
<input type="checkbox"/> Add to order	Shrimp	60/15g	£18.99	
<input type="checkbox"/> Add to order	Pasta	100/20g	£2.49	Gluten
<input type="checkbox"/> Add to order	Rice	10/18g	£1.99	
<input type="checkbox"/> Add to order	Potatoes	70/15g	£0.99	
<input type="checkbox"/> Add to order	Tomatoes	90/25g	£1.49	
<input type="checkbox"/> Add to order	Lettuce	120/30g	£0.79	
<input type="checkbox"/> Add to order	Cheese	40/9g	£6.49	

- View sales graph: when in the "Sales" screen, the sales graph will be displayed. Use the "Day", "Week" and "Month" buttons to change the time period the sales graph represents.
- Access external Payroll & HR system: when in the "Home" screen, use the "Payroll & HR" button. This opens a new webpage in the user's default browser. For further information on how to use the external Payroll & HR system, please see the user documentation located on their homepage.

## Section 2: Troubleshooting

### Section 2a: Problems and solutions

- Unable to login - incorrect username or password: by default, both the username and password are set to "lancaster". The only member of the administration/management staff that has the system privileges to change login details is the Restaurant Manager. If the user forgets their username or password, they are advised to contact the Restaurant Manager to reset their login details.
- Unable to login - correct username and password: if the login details are correct and the user is still unable to login, it is because the system is not connected to the Lancaster Restaurant's WiFi. If the login attempt was made from the Lancaster Restaurant's office, then check the WiFi connection status and troubleshoot the WiFi as necessary (please contact the Internet Service Provider for further information). If the login attempt was made from outside the office, then check the VPN status and troubleshoot the VPN as necessary (please contact the VPN provider for further information).
- No staff members are displayed: if no staff members are displayed in the "Staff" screen, there is an issue with the database. Please see "Section 2b: Solutions for general functionality and database issues" for the next steps.
- Unable to add new holiday for staff member: if using the "Add" button does not add the appropriate holiday period, there is either an issue with general functionality or the database. In

both cases, please see "Section 2b: Solutions for general functionality and database issues" for the next steps.

- No wines are displayed: if no wines are displayed in the "Wines" screen, there is an issue with the database. Please see "Section 2b: Solutions for general functionality and database issues" for the next steps.
- Unable to add new wine: if using the "Add" button does not add a new wine, there is either an issue with general functionality or the database. In both cases, please see "Section 2b: Solutions for general functionality and database issues" for the next steps.
- Wines with low stock are not displayed in red: if the "Wines" screen does not display these wines in red, then there is an issue with general functionality. Please see "Section 2b: Solutions for general functionality and database issues" for the next steps.
- No menus are displayed: if no menus are displayed in the "Menus" screen, there is an issue with the Kitchen subsystem. Please contact Code Crafters immediately and we will cooperate with the Kitchen subsystem development team to resolve the issue.
- The menu for the current week is not displayed in a lighter color or labelled as "Current week": if the "Menus" screen does not display the menu for the current week in this way, there is an issue with general functionality. Please see "Section 2b: Solutions for general functionality and database issues" for the next steps.
- Unable to edit menu or save changes: if a menu cannot be edited, there is either an issue with the database or with the Kitchen subsystem. In both cases, please see "Section 2b: Solutions for general functionality and database issues" for the next steps.
- No ingredients are displayed: if no ingredients are displayed in the "Inventory" screen, there is an issue with the database. Please see "Section 2b: Solutions for general functionality and database issues" for the next steps.
- Unable to add make order: if the user is unable to make an order, then there is an issue with the supplier's software or database. Please contact the supplier for the next steps.
- Unable to view sales graph: if the user is unable to view the sales graph, there is an issue with the Front-of-House subsystem. Please contact Code Crafters immediately and we will cooperate with the Front-of-House subsystem development team to resolve the issue.
- Unable to access external Payroll & HR system: if the user is unable to access the external Payroll & HR system, then there is an issue with that organisation's software or database. Please contact the organisation providing the external Payroll & HR system for the next steps.

## **Section 2b: Solutions for general functionality and database issues**

- General functionality issues: if there is an issue with general functionality, then please contact Code Crafters as soon as possible. As soon as we fix the issue, we will create an update for the system. This update will need to be carried out by an IT professional as per the steps detailed in the "Deployment Plan".
- Database issues: if there is an issue, with the database, then please contact Code Crafters as soon as possible. We can resolve this issue remotely - however, this will result in a short period of system downtime.

**Title:** Technical Manual

**Author(s):** Adam Hussain, Maheen Matin

### Version history:

Version	Note	Date	Author
1.2	Added document structure	19/04/2024	MM
1.1	Finished	18/04/2024	MM
1.0	Created	16/04/2024	AH

## Introduction

This document provides information about how to install, troubleshoot and maintain the Lancaster's Management software. In the first section, detailed instructions for installation are given as numbered steps. Finally, in the third section, miscellaneous information relevant to technical management and maintenance of the software is provided.

## Purpose

In future, Lancaster's Restaurant may employ the services of IT professionals who are not members of the Code Crafters team (the developers of the Lancaster's Management software). The aforementioned individuals may be required to work, directly or indirectly, with the Lancaster's Management software. This document aims to provide information and guidance to assist in this work.

## Scope

This document is intended for IT professionals. The information provided relates to installation, troubleshooting and maintenance - it does not relate to general usage of the software. For a user-friendly explanation of the various features of the software, please see the "User Guide".

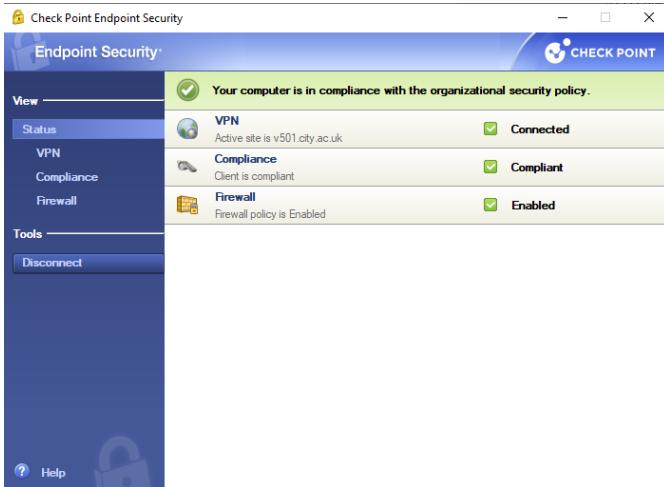
## Section 1: Installation Guide

- 1) Go to <https://www.oracle.com/java/technologies/downloads/> and download the appropriate JDK 22 for your operating system.
- 2) Follow the installation instructions.
- 3) Go to <https://support.checkpoint.com/results/download/128410> and download the VPN.
- 4) Follow the installation instructions.
- 5) When the VPN is installed, the first time you connect it will ask you to create a new connection.
- 6) When it asks for the server name, type: v501.city.ac.uk and connect.
- 7) Follow the login instructions and the VPN will automatically connect.
- 8) Sign into GitHub and navigate to the LancastersRestaurant repository.
- 9) Delete the existing local LancastersRestaurant directory (if applicable), then clone the LancastersRestaurant repository using SSH.
- 10) Open the Lancaster's Management software.
- 11) Use the "User Guide" to check that all functionality works correctly.
- 12) Package the source code into a JAR file. This can be done in two ways:
  - 12a) By using the command line: <https://docs.oracle.com/javase/tutorial/deployment/jar/build.html>

- 12b) By using IntelliJ (or another IDE): [https://www.jetbrains.com/help/idea/compiling-applications.html#package\\_into\\_jar](https://www.jetbrains.com/help/idea/compiling-applications.html#package_into_jar)
- 13) Copy the new JAR file into all of the existing local machines (thereby replacing the existing JAR file) using one of the following methods:
- 13a) Private network
  - 13b) Cloud data transfer
  - 13c) Physical data transfer (e.g. USB)

## Section 2: Troubleshooting

-If the app does not open, check to make sure you are connected to the VPN. You can check by opening the app:



-If the app still does not open, check to make sure the correct version of Java is installed. To check on Windows, go to Settings -> Apps and search for Java. You should see Java Development Kit 22.0.1.

## Apps & features

### App execution aliases

Search, sort, and filter by drive. If you would like to uninstall or move an app, select it from the list.

java

X

Sort by: Name ▾

Filter by: All drives ▾

3 apps found



Java 8 Update 411

189 MB

18/04/2024



Java(TM) SE Development Kit 21.0.2 (64-bit)

316 MB

05/03/2024



Java(TM) SE Development Kit 22.0.1 (64-bit)

314 MB

18/04/2024

## Section 3: Miscellaneous

-This software is designed to run on Windows devices, as detailed in "Deployment Diagram". Mac OS users may experience limited or incorrect functionality. One such example is shown below (missing Login button text).



**Title:** Deployment Plan

**Author(s):** Maheen Matin

### Version history:

Version	Note	Date	Author
1.2	Added document structure	19/04/2024	MM
1.1	Updated content	19/04/2024	MM
1.0	Created	18/04/2024	MM

## Introduction

This document provides information about how to deploy updates to the Lancaster's Management software. In the first section, numbered instructions for updating the software are provided. In the second section, a roll-back plan is detailed.

## Purpose

The Lancaster's Management software is a live system, meaning that updates cannot be made during office hours. It is also a mission-critical system, meaning that compromises in the functionality or security of the software will have a significant impact on Lancaster Restaurant's business and daily operations. Therefore, it is imperative that updates are made in a way that minimises system downtime and maximises system security. This document aims to provide information and guidance to assist in the updating of the software.

## Scope

This document is intended for both management staff and IT professionals. Both the management staff and IT professionals should seek to ensure that the steps detailed are followed precisely. However, information pertaining solely to updating the software itself and executing roll-backs (rather than the general process) is only intended for IT professionals.

## Section 1: Updating & deploying

### Section 1a: General information

- Updates must be executed outside of office hours (9am-5pm).
- All members of the Lancaster's administration/management staff must be informed at least 48 hours prior to the planned update execution.
- The update must be carried out by an IT professional.
- The Lancaster's Management software is stored on a GitHub repository, entitled "LancastersRestaurant". William Leslie of Code Crafters is the owner of the repository, but Lancaster Restaurant's administration/management staff have also been given access to this repository.

### Section 1b: Updating the software

- 1) Open a terminal tab and navigate to the LancastersRestaurant directory.
- 2) Enter "git pull" to fetch and merge the latest version of the software. NOTE: the repository was initially cloned using SSH, therefore git pull will also use SSH and the user will need to input their passphrase.

```
mat@Mats-MacBook-Pro ~ % git pull
```

- 3) Open the Lancaster's Management software.
- 4) Use the "User Guide" to check that all functionality works correctly. If all functionality is consistent with what is described in the "User Guide", then proceed to step 5. If all functionality does not work correctly, then proceed to step 1 in "Section 2: Roll-backs".
- 5) Package the source code into a JAR file. This can be done in two ways:
  - 5a) By using the command line: <https://docs.oracle.com/javase/tutorial/deployment/jar/build.html>
  - 5b) By using IntelliJ (or another IDE): [https://www.jetbrains.com/help/idea/compiling-applications.html#package\\_into\\_jar](https://www.jetbrains.com/help/idea/compiling-applications.html#package_into_jar)
- 6) Copy the new JAR file into all of the existing local machines (thereby replacing the existing JAR file) using one of the following methods:
  - 6a) Private network
  - 6b) Cloud data transfer
  - 6c) Physical data transfer (e.g. USB)

## **Section 2: Roll-backs**

- 1) Notify Code Crafters immediately of the exact issues with the software. Within 24 hours of notification, Code Crafters will push a new commit to the LancastersRestaurant repository, which is a stable build (in most cases, this will be direct predecessor software version). Depending on the number and complexity of issues, Code Crafters will make another commit fixing the aforementioned issues after 10-14 business days.
- 2) When the first (within 24 hours) commit has been made (Code Crafters will inform the Lancaster Restuarant's IT team via phone and email), proceed to step 1 in "Section 1b: Updating the software".
- 3) When the second (within 10-14 business days) commit has been made (Code Crafters will inform the Lancaster Restuarant's IT team via phone and email), proceed to step 1 in "Section 1b: Updating the software".

**Title:** Functional Requirements Analysis Document

**Author(s):** Betul Cilenk, Adam Hussain, Maheen Matin

### Version history:

Version	Note	Date	Author
2.2	Added document structure	19/04/2024	MM
2.0	Added new notes	12/03/2024	BC, AH
1.0	Created	10/03/2024	MM

### Introduction

This document provides an analysis of the functional requirements displayed in a table format.

### Purpose

Anyone looking at the code in future may desire to make changes to the code according to the initial set of user requirements. The functional user requirements document provides an analysis of these requirements.

### Scope

This document is intended for IT professionals.

## Functional Requirements Analysis

Requirement	Details
The system shall only allow access to members of the administration staff	<ul style="list-style-type: none"><li>-Only Julie (the restaurant manager), Robert (the Sommelier) and two unnamed administration staff members are authorised to access the system</li><li>-Therefore, a login page (username and password) is essential</li></ul>
The system shall ensure that adding suggested wines to the menu is a privileged action	<ul style="list-style-type: none"><li>-Only Robert (the Sommelier) is authorised to add suggested wines to a dish (from a menu)</li><li>-Therefore, this action must require a password (presumably known only to Robert)</li></ul>
The system shall allow the placing of an order on the supplier's website	<ul style="list-style-type: none"><li>-The application will have a button that takes the user to the supplier's website</li></ul>
The system shall allow access to an external payroll and HR system	<ul style="list-style-type: none"><li>-The application will have a button that takes the user to the external payroll/HR system</li></ul>
The system shall ensure that the kitchen team have all the data they require (from the management team)	<ul style="list-style-type: none"><li>-A list of ingredients that will be available from the supplier (for the duration of the coming month) - sent monthly</li><li>-Order details consisting of an item/ingredient and its corresponding quantity - sent upon every order</li></ul>

Requirement	Details
The system shall ensure that the FOH team have all the data they require (from the management team)	<ul style="list-style-type: none"> <li>-A weekly menu consisting of a list of dishes - with pricing, description, allergen information, and suggested wine(s) for each dish - sent weekly</li> <li>-An up-to-date sales graph (read-only) - frequency of sending unknown (make logical assumption)</li> <li>-A half-hour diner/cover limit value - sent upon every modification</li> <li>-A pre-booking capacity value - sent upon every modification</li> <li>-A maximum dining capacity value - sent upon every modification</li> </ul>
The system shall allow the management team to receive all the data it requires from the kitchen team	<ul style="list-style-type: none"> <li>-A weekly menu consisting of a list of dishes - each dish has a list of ingredients and a corresponding quantity for each of those ingredients - received weekly</li> <li>-A stock level update for a specified item/ingredient - received upon request</li> <li>-Stock level updates for one or more ingredients - received when stock has reached a number below its low-stock threshold - received upon event</li> </ul>
The system shall allow the management team to receive all the data it requires from the FOH team	<ul style="list-style-type: none"> <li>-A list of sales - each sale has associated information, namely the total amount of money taken, method of payment and the dishes that were ordered - frequency of receiving unknown (make logical assumption)</li> <li>-A list of bookings - each booking has associated information, namely a name, a number and the type of booking - frequency of receiving unknown (make logical assumption)</li> </ul>
The system shall allow the reviewing of menus	<ul style="list-style-type: none"> <li>-The process of reviewing consists of the following (for each dish in the menu): <ul style="list-style-type: none"> <li>--adding a description</li> <li>--adding a price</li> <li>--adding a list of allergens (clearly labelled/highlighted)</li> <li>--adding a list of suggested wines</li> </ul> </li> </ul>
The system shall ensure that the price of a dish is calculated correctly and according to specified criteria (that is adjustable)	<ul style="list-style-type: none"> <li>-The price of a dish is calculated by multiplying the total cost of the ingredients (for that dish) by a multiplier, e.g. 500%.</li> <li>-The multiplier is changed periodically (and the system must allow this)</li> </ul>
The system shall store information regarding the price of all ingredients that are ordered/used	<ul style="list-style-type: none"> <li>-In order to calculate the appropriate price of a dish, the total cost of the ingredients (for that dish) must be known.</li> </ul>
The system shall store information regarding the stock of wines, and allow this information to be updated/alterred	<ul style="list-style-type: none"> <li>-The stock of wines in the cellar are tracked, so that the Sommelier only suggests wines that are in stock</li> <li>-The current stock level of a wine(s) needs to be tracked in order to ascertain whether it needs to be restocked</li> </ul>
The system store information regarding which of the ingredients that were ordered are in need of restocking	<ul style="list-style-type: none"> <li>-Either through manually requesting a given item/ingredient's stock level, or through an update given by the kitchen team, the management team needs to document which ingredients are in need of restocking</li> </ul>
The system shall store information regarding which staff member(s) is on holiday at any given time	<ul style="list-style-type: none"> <li>-This information is used to determine the half-hour diner/cover limit, the pre-booking capacity and the maximum dining capacity</li> </ul>

Requirement	Details
The system shall store information regarding, and allow the manual adjustment of: a half-hour diner/cover limit, a pre-booking capacity and a maximum dining capacity	<ul style="list-style-type: none"> <li>-The half-hour diner/cover limit is used to ensure that the number of diners remains at a sustainable level (given the amount of available staff)</li> <li>-The pre-booking capacity determines how many tables/seats the FOH team can allow online bookings for</li> <li>-The maximum dining capacity determines the total number of tables/seats available for that day (given the amount of available staff)</li> </ul>
The system shall allow an order to be compiled	<ul style="list-style-type: none"> <li>-Orders need to be placed on the supplier's website</li> <li>-Compiling an order consists of a list of ingredients and a corresponding quantity for each ingredient in that list</li> </ul>
The system shall store a sales graph, and allow the updating/altering of this sales graph	<ul style="list-style-type: none"> <li>-Using the sales data received from the FOH team, the management team keeps a yearly sales graph consisting of the following data:</li> <li>--the total number of tables and covers booked last year</li> <li>--the average number of tables and covers booked for a given day of the week</li> </ul>
The system shall store information regarding popular dishes and total takings	<ul style="list-style-type: none"> <li>-Using the sales data received from the FOH team, the management team is able to ascertain which dishes are the most popular (a dish is considered to be popular if it is above a particular rank (when all the dishes are ranked in order of total number of orders, or total revenue generated), or if it exceeds a particular threshold (in regards to total number of orders or total revenue generated)</li> <li>-Information regarding total takings for the following timeframes are stored: daily, weekly, monthly and yearly</li> </ul>
The system shall provide sales data upon request in order to facilitate predictions of future bookings and future demand for ingredients	<ul style="list-style-type: none"> <li>-Using the data corresponding to the sales graph, popular dishes and total takings, sales data will be produced upon request</li> <li>-This data will facilitate predictions of future bookings and future demand for ingredients</li> </ul>

### Initial Requirements Gathering

Requirement	Source (Case Study)
Allow the ordering of produce	Management
Ensure that kitchen have everything they need	Management
Ensure that FOH have everything they need	Management
Allow the tracking of sales	Management
Allow the tracking of bookings	Management
Only allow access to admin staff, manager and sommelier	Management
Allow the tracking of all sales	Management -> Tracking
Provide functionality for receiving sales data from FOH	Management -> Tracking
Allow the tracking of popular dishes (with FOH sales data)	Management -> Tracking
Allow the tracking of takings (with FOH sales data)	Management -> Tracking
Provide functionality to predict future bookings (with sales data)	Management -> Tracking

Requirement	Source (Case Study)
Provide functionality to predict how much stock to order for the kitchen	Management -> Tracking
Provide a sales graph	Management -> Tracking
Allow the updating of the sales graph	Management -> Tracking
Allow the tracking of staffing	Management -> Tracking
Store information regarding which staff member(s) is on holiday currently	Management -> Tracking
Provide functionality for planning the number of covers per half hour (with staffing data)	Management -> Tracking
Provide functionality for planning the maximum dining capacity (with staffing data)	Management -> Tracking
Allow access to external payroll and HR systems	Management -> Tracking
Allow the reviewing of a menu sent from the kitchen/Chef	Management -> Menu Review and Costing
Provide functionality for adding descriptions to dishes in the menu	Management -> Menu Review and Costing
Provide functionality for adding prices to dishes in the menu	Management -> Menu Review and Costing
Provide functionality for calculating the appropriate price according to a percentage/multiplier	Management -> Menu Review and Costing
Allow the changing of the percentage/multiplier	Management -> Menu Review and Costing
Provide functionality for the clear labelling of all allergens in the dish	Management -> Menu Review and Costing
Allow the sommelier to review a menu sent from the kitchen/Chef	Management -> Menu Review and Costing
Allow the sommelier to add suggested wines to dishes in the menu	Management -> Menu Review and Costing
Allow the tracking of wines in the cellar	Management -> Menu Review and Costing
Provide functionality to determine when a wine is in need of ordering	Management -> Menu Review and Costing
Provide functionality to determine which wine(s) is in need of ordering	Management -> Menu Review and Costing
Provide functionality to determine how much of each item to order (with the upcoming week's menu, sales graph (aka plan chart) and a conversation with Chef)	Management -> Ordering
Allow the placing of an order on the supplier's website	Management -> Ordering
Allow order details to be sent to the kitchen (kitchen will check the order and track what they have)	Management -> Ordering

## Title: Analysis Class Diagram

**Author(s):** Betul Cilenk, Maheen Matin

### Version history:

Version	Note	Date	Author
1.2	Added document structure	19/04/2024	MM
1.1	Finished	18/03/2024	BC
1.0	Created	15/03/2024	MM

## Introduction

This document provides an analysis class diagram and a list of notes designed to aid in interpreting said analysis class diagram.

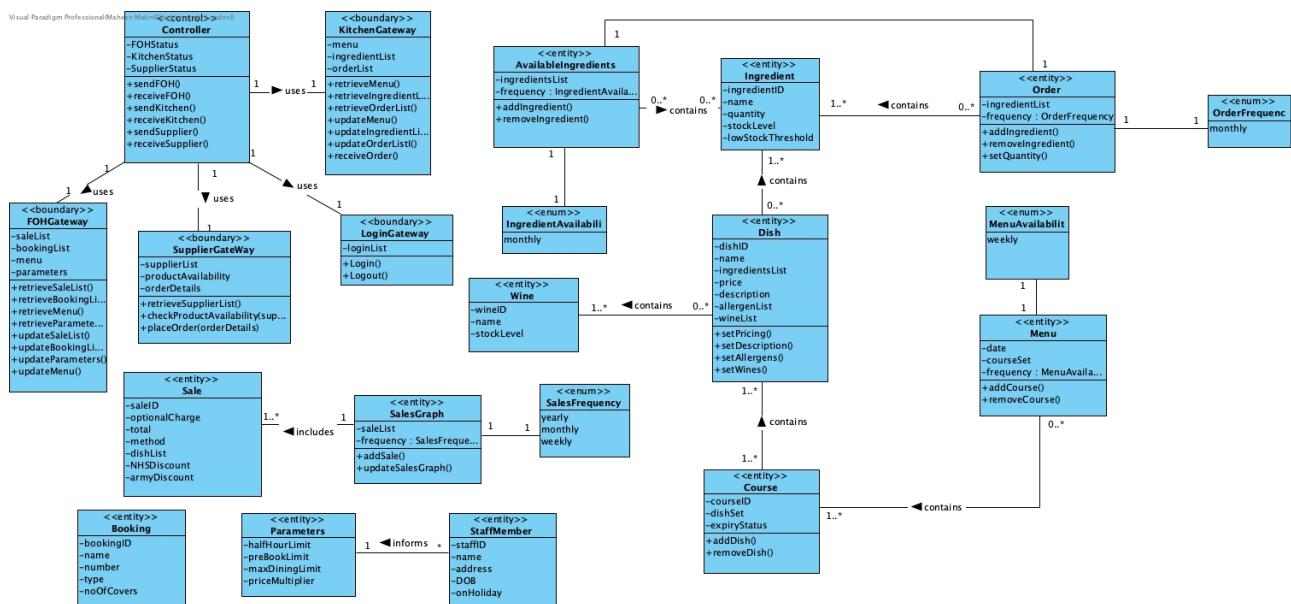
## Purpose

Anyone looking at the code in future may desire to make changes to the code according to the initial set of user requirements. The analysis class diagram describes a general interpretation of these user requirements in a visual format.

## Scope

This document is intended for IT professionals.

## DIAGRAM:



## NOTES:

**-In the Booking class:** the "type" attribute refers to whether the booking was a walk-in, online, in-person or phone booking

**-In the Sale class:** the "method" attribute refers to whether the payment was made using card or cash

**-The AvailableIngredients class:** refers to the monthly list of available ingredients that is sent to the kitchen

**-In the Kitchen Gateway class:**

--menu: since the kitchen team receives the menu from the managers, it must have a menu attribute value

--ingredientList: when the management team orders supplies from the supplier, the list of ordered ingredients is also sent to the kitchen. Therefore, the kitchen team needs to update the quantity of ingredients on hand.

**-For this reason, the ingredientList attribute value has been added:**

--orderList: the list of products ordered by the management team is also sent to the kitchen team.

**-Hence, the orderList parameter has been added:**

--RetrieveIngredientList(): used by the kitchen team to obtain the list of ingredients they have on hand

--retrieveOrderList(): used for the kitchen team to view the products ordered by the management team

--updateMenu(): the process of compiling the menu is done by the Head Chef, and at the same time, the Head Chef/Sous Chef can update the menu based on feedback received from the online site. Therefore, the updateMenu() function has been added

--updateOrderList(): The management team, along with the Head Chef, decides how much of which ingredient will be ordered by looking at the menu for the upcoming week. That's why the updateOrderList() function has been added to the Kitchen Gateway

--receiveOrder(): The process of sending the products ordered by the management team to the kitchen department is carried out with the receiveOrder() function

**-In the SupplierGateway class:**

--the management team continuously monitors and updates the status of stock materials and the restaurant's booking situation. When stock materials are depleted, purchases are made from suppliers. Therefore, we need a SupplierGateway.

--supplierList: holds the list of suppliers. While there is one fixed supplier for supplying ingredients in the restaurant, a different supplier is used for wine supply. The list of these suppliers is kept in the supplierList

--productAvailability: suppliers present the management team with a monthly list of products they can supply. Therefore, the productAvailability attribute was created. This attribute contains the list of products that the supplier can sell to the management team

--orderDetails: contains descriptions of the products to be sold to the management team by the supplier.

--retrieveSupplierList(): used to obtain the list of suppliers who have sufficient materials in stock

--checkProductAvailability(supplier): the process of checking whether a certain supplier (supplier) has the desired products in stock

--placeOrder(orderDetails): the process of requesting an order from the desired supplier

**-Sales Frequency Enum Class:** the sales graph should be regularly updated weekly, monthly, and yearly. This is crucial as it will give the management team important clues about when the restaurant is busy or quiet throughout the year, and which months have higher sales. Three enum literals have been created: yearly, monthly, weekly. Additionally, a frequency parameter has been added to the SalesGraph class

**-IngredientAvailability Enum Class:** The supplier communicates the list of available ingredients to the management team on a monthly basis. Hence, the "monthly" literal has been added to the

IngredientAvailability enum class. Also, a frequency parameter has been added to the AvailableIngredient class.

**-MenuAvailability Enum Class:** The management team, along with the Head Chef, uses the weekly updated menu to determine how much of which ingredients should be purchased. Therefore, the "weekly" literal has been added to the MenuAvailability Enum Class. Also, a frequency parameter has been added to the Menu class

**-OrderFrequency:** The management team receives the quantity of materials that can be ordered from the supplier on a monthly basis, thus the OrderFrequency literal value has been determined as "monthly". Additionally, a frequency parameter has been added to the Order class.

## Title: Design Class Diagram

**Author(s):** Betul Cilenk, Maheen Matin

## Version history:

Version	Note	Date	Author
2.1	Added document structure	19/04/2024	MM
2.0	Changed to fit current code	15/04/2024	MM
1.0	Created	24/03/2024	BC

## Introduction

This document provides a design class diagram.

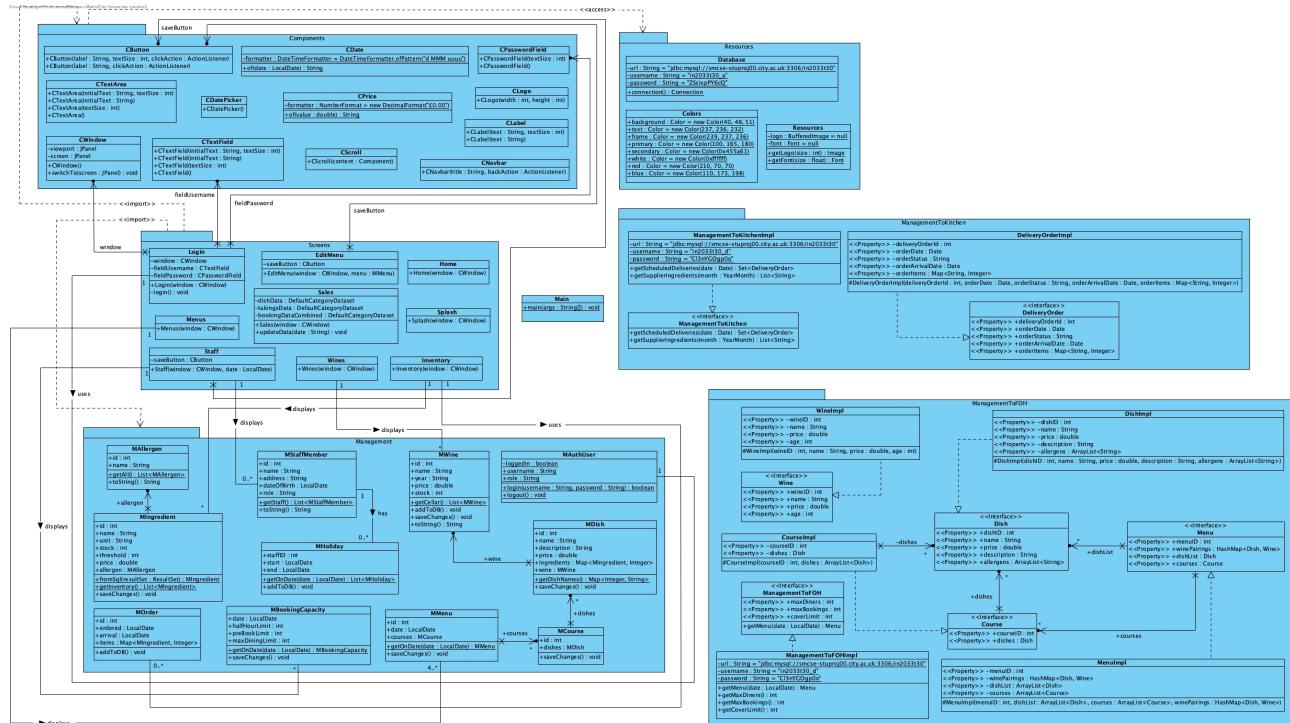
## Purpose

Anyone looking at the code in future may desire to make changes or gain a deeper understanding of the code for another reason. The design class diagram describes the current codebase (at the time of handover) in a visual format.

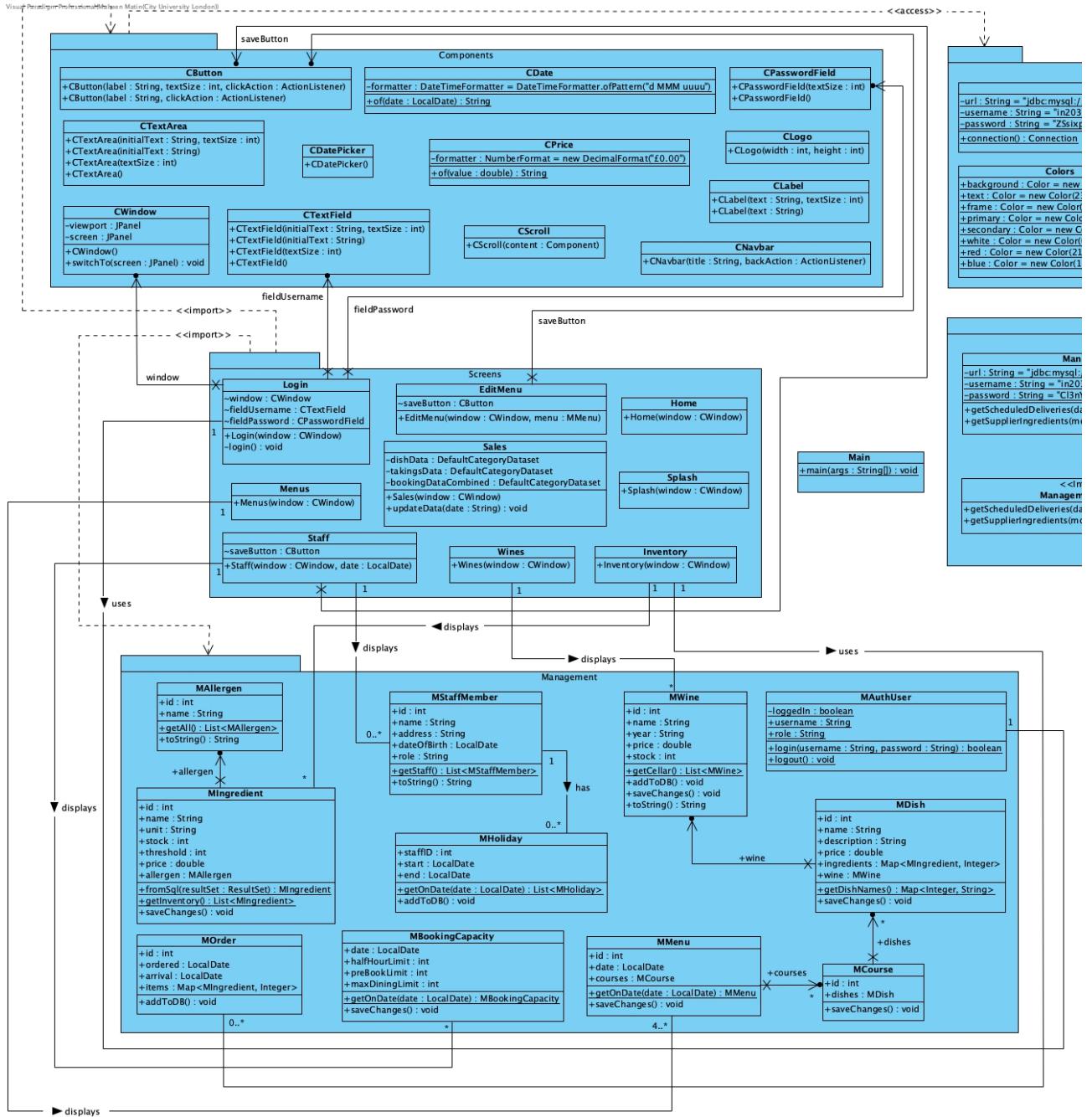
# Scope

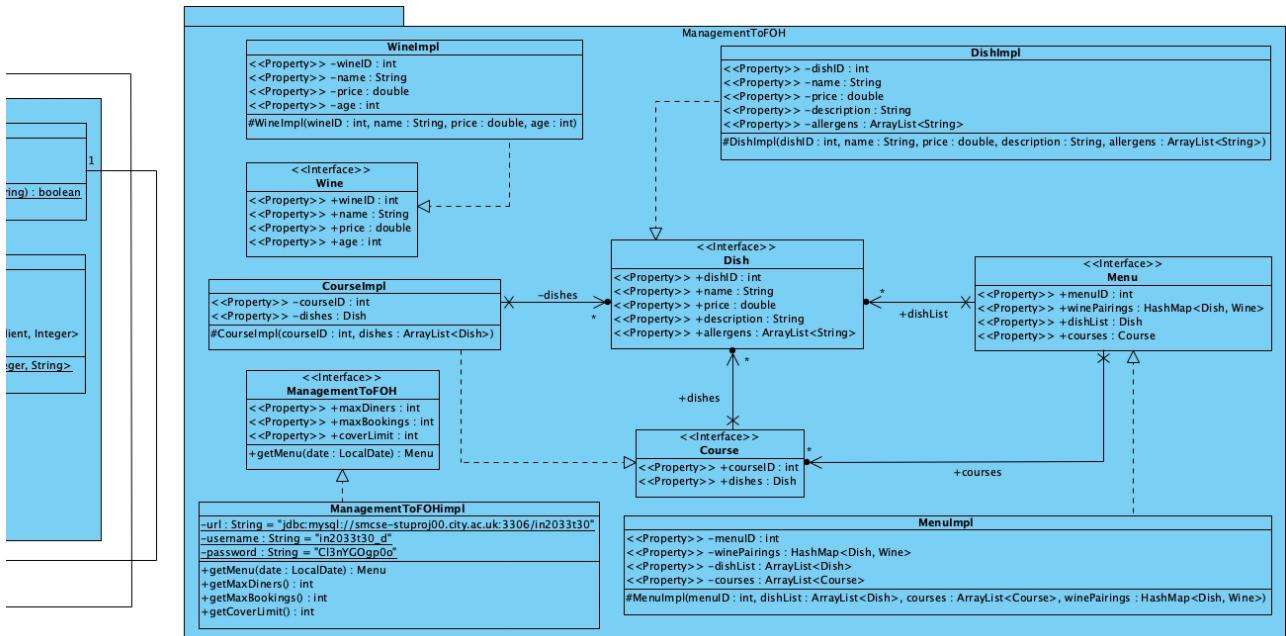
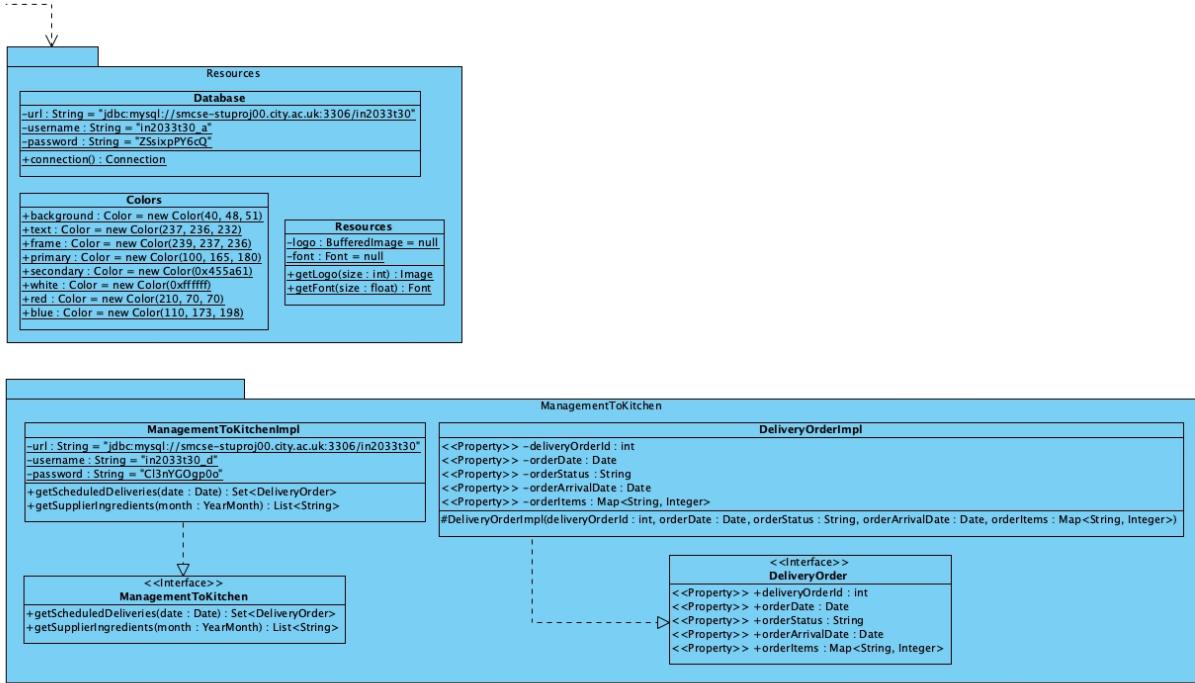
This document is intended for IT professionals.

## **DIAGRAM:**



## DIAGRAM (ZOOMED IN):





**Title:** State Machine Diagram

**Author(s):** Betul Cilenk, Maheen Matin

### Version history:

Version	Note	Date	Author
2.1	Added document structure	19/04/2024	MM
2.0	Changed to fit current code	16/04/2024	MM
1.0	Created	28/03/2024	BC

### Introduction

This document provides a state machine diagram.

### Purpose

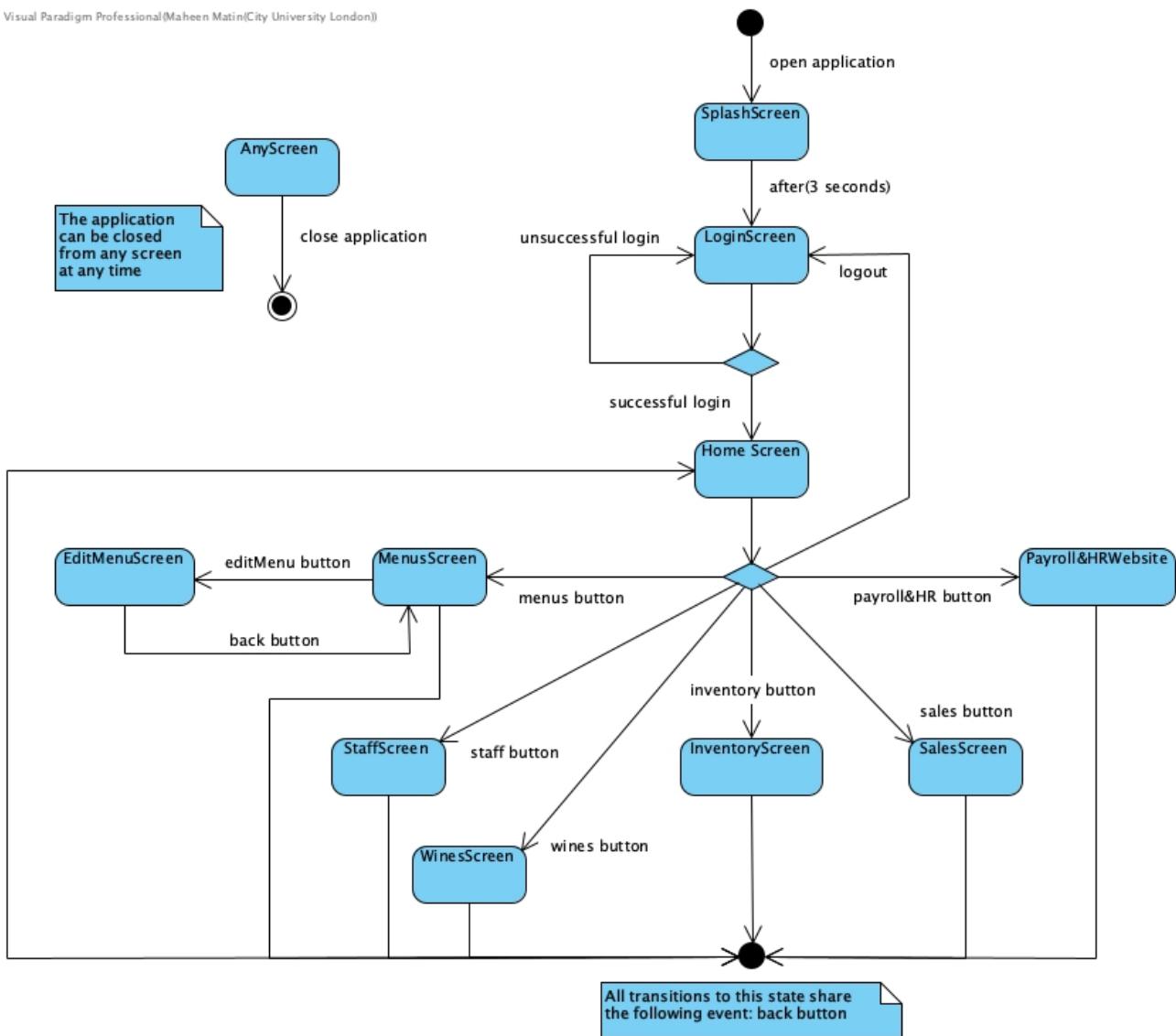
Anyone looking at the code in future may desire gain a deeper understanding of the code, specifically in regards to navigating through the GUI. The state machine diagram describes the current codebase (at the time of handover) in a visual format.

### Scope

This document is intended for IT professionals.

### **DIAGRAM:**

(Please see the next page)



**Title:** Deployment Diagram

**Author(s):** Maheen Matin

### Version history:

Version	Note	Date	Author
1.1	Added document structure	19/04/2024	MM
1.0	Created	18/04/2024	MM

### Introduction

This document provides a deployment diagram.

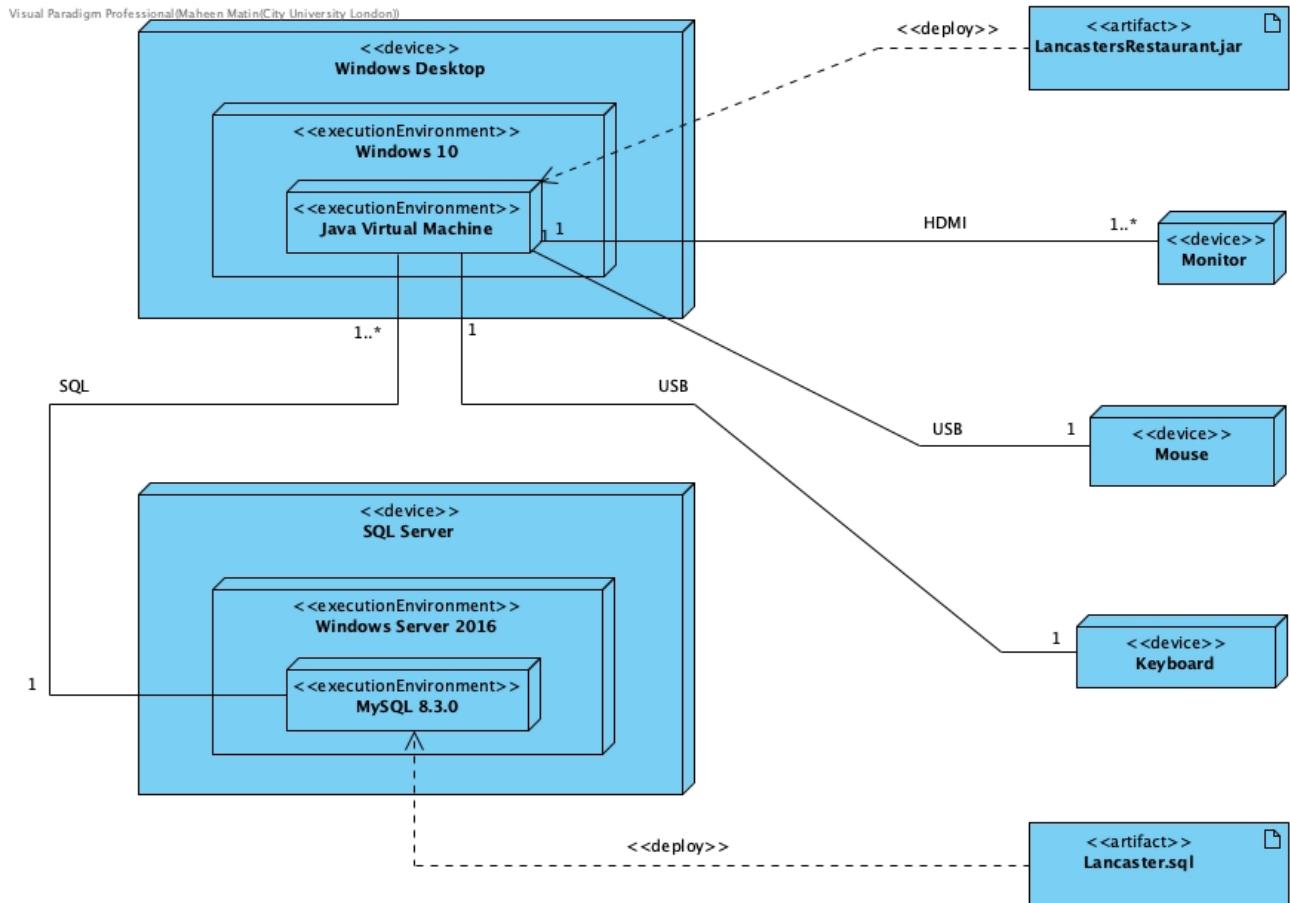
### Purpose

Individuals working with the Lancaster's Management software may find information regarding deployment helpful in their work.

### Scope

This document is intended for IT professionals.

### DIAGRAM:



## Title: Entity Relationship Diagram

Author(s): Sultan Alhaider, William Leslie, Martinson Yan

### Version history:

Version	Note	Date	Author
2.1	Added document structure	19/04/2024	MM
2.0	Changed to fit current code	16/04/2024	WL, MY
1.0	Created	10/03/2024	SA, WL, MY

## Introduction

This document provides an entity relationship diagram.

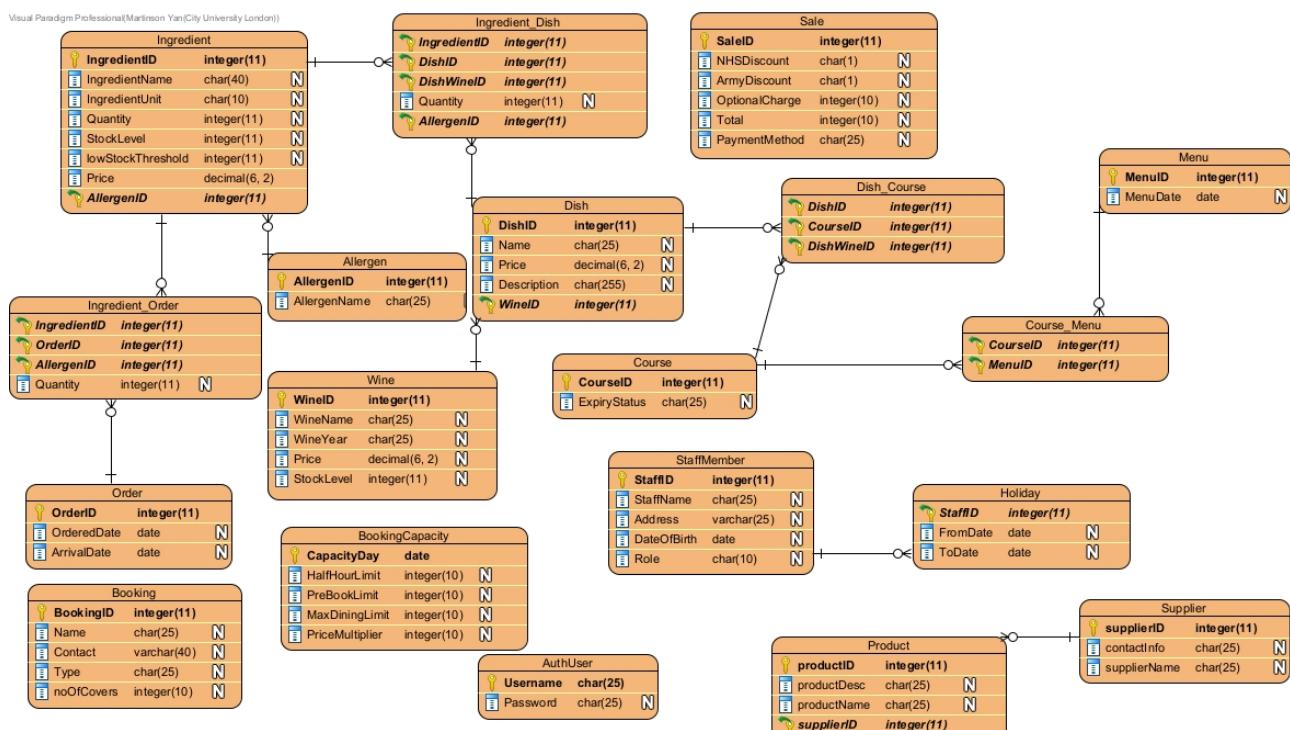
## Purpose

Individuals working with the Lancaster's Management software will also need to know how the database works. The entity relationship diagram provides this information in a visual format.

## Scope

This document is intended for IT professionals.

## DIAGRAM:



**Title:** Testing Report 1

**Author(s):** Adam Hussain

### **Version history:**

Version	Note	Date	Author
1.1	Added document structure	19/04/2024	MM
1.0	Created	18/03/2024	AH

## Introduction

In this report I will be reviewing the Lancaster Restaurant software created by the development team. The aim of software is to streamline the interactions between the three teams: front-of-house (FOH), kitchen and management. The focus of the testing is to evaluate the Graphical User Interface (GUI) for the software. The GUI is a critical component of the system as it is the primary interface through which the user interacts with the software and there is a key emphasis on usability and functionality. I will not be testing functions within the GUI such as the ability to update menus. The evaluation criteria have been decided through a mixture of specific needs from Lancaster's Restaurant as well as general software and GUI principles. I will approach the testing from the perspective of someone in management using the software.

## Evaluation Criteria

### Navigation and Layout

1. Is the layout of the screens consistent?

### Visual Design and Branding

1. Does the aesthetic fit with the theme specified by the customer? (e.g. text fonts, colouring, branding etc.)

### Responsiveness and Performance

1. Do interactive elements perform as expected?
2. Can user inputs impede performance?
3. Does the GUI exhibit any graphical errors?
4. Does the program use a reasonable amount of system resources?

### Input Validation and Error Handling

1. How does the system respond to erroneous data being submitted?

### User Interaction

1. Is the user successfully able to change settings? (e.g. date and time)

## Testing Approach

Since I am testing GUI from the perspective of a member of staff, I will be manually testing the software. I will also be testing in black box conditions and will perform both functional tests and

stress testing. By using this approach, we can ensure that all the user requirements are met within the framework of the evaluation criteria while also testing the software's ability to handle errors and stress.

Visual items such as logos and designs will be manually checked to make sure they adhere with the design philosophy put forward by Lancaster's Restaurant. To test user inputs, I will use a variety of different inputs from letters to special characters and other potentially unexpected inputs. Lastly to test the performance of the code I will monitor statistics such as CPU and RAM usage while the code is running. The CPU and RAM being used are not from a high-end system, they would be much more in line with a low end consumer system.

## Test Cases

### Navigation and Layout

Evaluation Criteria: Navigation and Layout	Criteria Number: 1
Test Number: 1.1	
Setup: The software must be running and the user should be at the login screen. The VPN must be connected.	
Expected Result: All buttons in the menu are of a uniform size and shape with appropriate layout.	
Test: <ol style="list-style-type: none"><li>1. Log into the software</li><li>2. Observe the software</li></ol>	
Result: PASS All buttons in the menu are of a uniform size and shape with appropriate layout.	
Date: 18/03/2024	Tester: Adam Hussain

### Visual Design and Branding

Evaluation Criteria: Visual Design and Branding	Criteria Number: 1
Test Number: 2.1	
Setup: The software must be running and the user should be logged in at the home screen. The VPN must be connected.	
Expected Result: All colour schemes, fonts and logos used are ones approved by Lancaster's Restaurant.	
Test: <ol style="list-style-type: none"><li>1. Log into the software</li><li>2. Observe the software</li></ol>	

<p><b>Result: PASS</b></p> <p>All colour schemes, fonts and logos used are ones approved by Lancaster's Restaurant.</p>	
Date: 18/03/2024	Tester: Adam Hussain

### Responsiveness and Performance

Evaluation Criteria: Responsiveness and Performance	Criteria Number: 1
Test Number: 3.1a	
<p><b>Setup:</b>            The software must be running and the user should be logged in at the home screen. The VPN must be connected.</p>	
<p><b>Expected Result:</b>            Whenever a button is pressed to access a new screen, the expected screen is brought up.</p>	
<p><b>Test:</b></p> <ol style="list-style-type: none"> <li>1. Log into the software</li> <li>2. Press on the button that leads to the desired screen</li> <li>3. Observe results</li> <li>4. Repeat for all screens</li> </ol>	
<p><b>Result: PASS</b></p> <p>All buttons lead to expected screens.</p>	
Date: 18/03/2024	Tester: Adam Hussain

Evaluation Criteria: Responsiveness and Performance	Criteria Number: 1
Test Number: 3.1b	
<p><b>Setup:</b>            The software must be running and the user should be logged in at the home screen. The VPN must be connected.</p>	
<p><b>Expected Result:</b>            Whenever the back button is pressed, the user is returned to the home menu.</p>	
<p><b>Test:</b></p> <ol style="list-style-type: none"> <li>1. Log into the software</li> <li>2. Press on a button that leads to a screen</li> <li>3. Press the back button</li> <li>4. Observe results</li> <li>5. Repeat for all screens</li> </ol>	

**Result: PASS**

All buttons lead back to the main menu.

Date: 18/03/2024

Tester: Adam Hussain

Evaluation Criteria: Responsiveness and Performance	Criteria Number: 2
Test Number: 3.2	
<b>Setup:</b> The software must be running and the user should be logged in at the home screen.	
<b>Expected Result:</b> Opening another screen should not cause any delay in the opening of the software. The VPN must be connected.	
<b>Test:</b> <ol style="list-style-type: none"><li>1. Log into the software</li><li>2. Press on a button that leads to a screen</li><li>3. Press the back button</li><li>4. Observe results</li><li>5. Repeat for all screens</li></ol>	
<b>Result: PASS</b> No screens cause any extra delay when opening.	
Date: 18/03/2024	Tester: Adam Hussain

Evaluation Criteria: Responsiveness and Performance	Criteria Number: 3
Test Number: 3.3	
<b>Setup:</b> The software must be running and the user should be logged in at the home screen. The VPN must be connected.	
<b>Expected Result:</b> There should be no graphical errors running the software	
<b>Test:</b> <ol style="list-style-type: none"><li>1. Log into the software</li><li>2. Press on a button that leads to a screen</li><li>3. Press the back button</li><li>4. Observe results</li><li>5. Repeat for all screens</li></ol>	
<b>Result: PASS</b> No graphical errors when running the software.	
Date: 18/03/2024	Tester: Adam Hussain

Evaluation Criteria: Responsiveness and Performance	Criteria Number: 4
Test Number: 3.4	
<b>Setup:</b> The software must be running and the user should be logged in. Task manager should be opened to observe system resources. The VPN must be connected.	
<b>Expected Result:</b> The software should use a small amount of system resources to run.	
<b>Test:</b> <ol style="list-style-type: none"> <li>1. Log into the software</li> <li>2. Press on a button that leads to a screen</li> <li>3. Press the back button</li> <li>4. Observe task manager to see how much system resources are used</li> <li>5. Repeat for all screens</li> </ol>	
<b>Result:</b> PASS The software used at most 200MB of RAM and under 3% of CPU. This only peaked when changing screens, it was using less idling.	
Date: 18/03/2024	Tester: Adam Hussain

### Input Validation and Error Handling

Evaluation Criteria: Input Validation and Error Handling	Criteria Number: 1
Test Number: 4.1a	
<b>Setup:</b> The software must be running and the user should be at the home screen. The VPN must be connected.	
<b>Expected Result:</b> Logging in with the wrong username and password should give an error.	
<b>Test:</b> <ol style="list-style-type: none"> <li>1. Try logging into the software with a random username and a given password</li> </ol>	
<b>Result:</b> PASS The system did not allow a log-in and gave an error suggesting a wrong username or password.	
Date: 18/03/2024	Tester: Adam Hussain

Evaluation Criteria: Input Validation and Error Handling	Criteria Number: 1
--	--------------------

Test Number: 4.1b	
<b>Setup:</b> The software must be running and the user should be at the home screen. The VPN must be connected.	
<b>Expected Result:</b> Logging in with the wrong username and password should give an error.	
<b>Test:</b> 1. Try logging into the software with a random password and a given username	
Result: PASS The system did not allow a log-in and gave an error suggesting a wrong username or password.	Tester: Adam Hussain

### User Interaction

Evaluation Criteria: User Interaction	Criteria Number: 1
Test Number: 5.1	
<b>Setup:</b> The software must be running and the user should be at the home screen.	
<b>Expected Result:</b> Clicking on an icon should result in the settings menu being brought up.	
<b>Test:</b> 1. Log into the software 2. Click on settings icon	
Result: FAIL There is not settings icon.	
Date: 18/03/2024	Tester: Adam Hussain

### Evaluation

All the tests passed successfully given the expected results (acceptance criteria), except one. The test that failed was the ability to modify user settings such as the date and time as this feature has not been added anywhere on the software.

### Conclusion

Overall, the GUI has clearly met the functional requirements set out with all but one test meeting the expected result. The development team need to add a settings button that allows the user to modify software settings. Also, when testing I found myself trying to press “enter” to login which did not work. Instead, I had to manually click on the login button every time. Adding the feature to login on pressing “enter” would improve usability.

**Title:** Testing Report 2

**Author(s):** Adam Hussain

#### **Version history:**

Version	Note	Date	Author
1.1	Added document structure	19/04/2024	MM
1.0	Created	14/04/2024	AH

## Introduction

In this report I will be reviewing the Lancaster Restaurant software created by the development team. The aim of software is to streamline the interactions between the three teams: front-of-house (FOH), kitchen and management. The focus of the testing is to evaluate the back-end features and functional requirements of the software. The screens and functions that will be tested are: staff, wine, menu, inventory and sales. The features that all these sections need have been decided through a mixture of specific needs from Lancaster's Restaurant as well as customer interviews and development principles. I will be creating the evaluation criteria based on the features required. I will approach the testing from the perspective of someone in management using the software.

## Evaluation Criteria

### General User Functionality

1. Can a user successfully log in and out?
2. Can multiple users successfully log in and out with different roles, usernames and passwords?
3. Will logging in with the wrong password lead to an error?

### Staff Functionality

1. Can the user add and remove staff holidays?
2. Can the user select a day and see which staff are and are not working?
3. Can the user set half hour limits as well as max dining limits?

### Wine Functionality

1. Can the user add a wine to the inventory with the appropriate inputs? (i.e. name, vintage, price)
2. Can the user edit the stock levels of the wines?

### Menu Functionality

1. Can the user edit an item on the menu?
2. Can the user add a wine to the dish on the menu?

3. Are allergens automatically added to the menu?
4. Can you see the menus for the next 4 weeks?
5. Does the menu give a suggested price?
6. Does the menu get approved before being sent?

### Inventory Functionality

1. Can the user add allergens to the item
2. Can the user order selected items
3. Can the user clearly see what items have low stock?

### Sales Functionality

1. Can the user visualise the most popular dishes of the day, week and month?
2. Can the user visualise the takings of the day, week and month?
3. Can the user visualise the online, phone and walk-in of the day, week and month?

### Responsiveness and Performance

1. Do interactive elements perform as expected?
2. Can user inputs impede performance?
3. Does the GUI exhibit any graphical errors?
4. Does the program use a reasonable amount of system resources?

### Input Validation and Error Handling

1. How does the system respond to errors?
2. How does the software deal with crashes?

## Testing Approach

I will be testing all functions from the perspective of a member of staff, therefore I will be manually testing the software. The software will also be tested under black box conditions and I will be performing mostly functional tests with a few stress tests to see how the system deals with errors. Each screen has its own set of features that will be tested and after I will test the general usability of the software to make sure that it runs as it should.

Lastly to test the performance of the code I will monitor statistics such as CPU and RAM usage while the code is running. The CPU and RAM being used are not from a high-end system, they would be much more in line with a low end consumer system.

## Test Cases

### General User Functionality

Evaluation Criteria: General User Functionality	Criteria Number: 1
---	--------------------

Test Number: 1.1a	
<b>Setup:</b> The software must be running and the user should be at the login screen. The VPN must be connected.	
<b>Expected Result:</b> Using the correct username and password should lead to access of the main menu.	
<b>Test:</b> <ol style="list-style-type: none"><li>1. Log into the software</li><li>2. Observe the software</li></ol>	
<b>Result:</b> PASS Logging into the software leads to the main menu screen.	
Date: 14/04/2024	Tester: Adam Hussain

Evaluation Criteria: General User Functionality	Criteria Number: 1
Test Number: 1.1b	
<b>Setup:</b> The software must be running and the user should be at the login screen. The VPN must be connected.	
<b>Expected Result:</b> Clicking the logout button should result in the ability to logout and the next user to enter their details.	
<b>Test:</b> <ol style="list-style-type: none"><li>1. Log into the software</li><li>2. Press the Logout button</li><li>3. Observe the software</li></ol>	
<b>Result:</b> PASS Pressing logout causes the user to be logged out and a new user can enter their details.	
Date: 14/04/2024	Tester: Adam Hussain

Evaluation Criteria: General User Functionality	Criteria Number: 2
Test Number: 1.2	
<b>Setup:</b> The software must be running and the user should be at the login screen. The VPN must be connected.	

**Expected Result:**

The user should be able to login then logout allowing a new user with new login details to login. The user and role should update to reflect these changes

**Test:**

1. Log into the software with a given admin username and password
2. Observe the “User” and “Role” in the top left of the screen
3. Log out
4. Log into the software with a different username and password for normal staff
5. Check the “User” and “Role” at the top of the screen

**Result: PASS**

Logging into the different accounts with different privileges will give the correct “User” and “Role”.

Date: 14/04/2024

Tester: Adam Hussain

Evaluation Criteria: General User  
Functionality

Criteria Number: 3

Test Number: 1.3a

**Setup:**

The software must be running and the user should be at the login screen. The VPN must be connected.

**Expected Result:**

Logging in with the wrong username and password should give an error.

**Test:**

1. Try logging into the software with a random username and a given password

**Result: PASS**

The system did not allow a log-in and gave an error suggesting a wrong username or password.

Date: 14/04/2024

Tester: Adam Hussain

Evaluation Criteria: General User  
Functionality

Criteria Number: 3

Test Number: 1.3b

**Setup:**

The software must be running and the user should be at the home screen. The VPN must be connected.

**Expected Result:**

Logging in with the wrong username and password should give an error.

Test:	1. Try logging into the software with a random password and a given username			
Result: PASS				
The system did not allow a log-in and gave an error suggesting a wrong username or password.				
Date: 14/04/2024	Tester: Adam Hussain			

### Staff Functionality

Evaluation Criteria: Staff Functionality	Criteria Number: 1
Test Number: 2.1a	
Setup:	
The software must be running and the user should be at the home screen.	
Expected Result:	
Adding a staff member holiday should result in their name appearing in the “On Holiday” section of the staff menu for the days submitted. The VPN must be connected.	
Test:	
<ol style="list-style-type: none"> <li>1. Log into the software</li> <li>2. Click on the “Staff” button</li> <li>3. At the top of the screen, use the first date option next to add holiday to set the “from” date</li> <li>4. At the top of the screen, use the second date option to set the “to” date</li> <li>5. Select a staff member to test in the final box</li> <li>6. Click on “Add Holiday”</li> <li>7. At the top of the screen, use the date to set the date to be in the period of the holiday set</li> </ol>	
Result: PASS	
The system correctly added the right staff member to be on holiday on the right days.	
Date: 14/04/2024	Tester: Adam Hussain

Evaluation Criteria: Staff Functionality	Criteria Number: 1
Test Number: 2.1b	
Setup:	
The software must be running and the user should be at the home screen. The VPN must be connected.	
Expected Result:	
The staff holiday should be able to be removed.	

Test:	
1. Log into the software 2. Click on the “Staff” button	
Result: FAIL	
The system is unable to remove staff holidays.	
Date: 14/04/2024	Tester: Adam Hussain

Evaluation Criteria: Staff Functionality	Criteria Number: 2
Test Number: 2.2	
Setup:	
The software must be running and the user should be at the home screen.	
Expected Result:	
The staff holiday should be able to be removed.	
Test:	
1. Log into the software 2. Click on the “Staff” button 3. At the top of the screen, use the date to set the date to be in the period of the holiday set 4. Repeat for multiple dates	
Result: PASS	
The system correctly identifies which staff member are on holiday and who is working.	
Date: 14/04/2024	Tester: Adam Hussain

Evaluation Criteria: Staff Functionality	Criteria Number: 3
Test Number: 2.3a	
Setup:	
The software must be running and the user should be at the home screen. The VPN must be connected.	
Expected Result:	
The user should be able to edit the half hour limit.	
Test:	
1. Log into the software 2. Click on the “Staff” button 3. At the bottom of the screen, set the “Half Hour Limit” 4. Click on save changes 5. Click “Back” and then click on “Staff” again 6. Check to make sure the changes were saved	

Result: PASS	
The system correctly sets and saves the half hour limit.	
Date: 14/04/2024	Tester: Adam Hussain

**Setup:**

The software must be running and the user should be at the home screen. The VPN must be connected.

**Expected Result:**

The user should be able to edit the pre book limit.

**Test:**

1. Log into the software
2. Click on the “Staff” button
3. At the bottom of the screen, set the “Pre Book Limit”
4. Click on save changes
5. Click “Back” and then click on “Staff” again
6. Check to make sure the changes were saved

Result: PASS	
The system correctly sets and saves the pre book limit.	
Date: 14/04/2024	Tester: Adam Hussain

Evaluation Criteria: Staff Functionality	
Criteria Number: 3	
Test Number: 2.3c	
<b>Setup:</b>	
The software must be running and the user should be at the home screen. The VPN must be connected.	
<b>Expected Result:</b>	
The user should be able to edit the max dining limit.	
<b>Test:</b>	

**Setup:**

The software must be running and the user should be at the home screen. The VPN must be connected.

**Expected Result:**

The user should be able to edit the max dining limit.

**Test:**

1. Log into the software
2. Click on the “Staff” button
3. At the bottom of the screen, set the “Max Dining Limit”
4. Click on save changes
5. Click “Back” and then click on “Staff” again
6. Check to make sure the changes were saved

Result: PASS	
The system correctly sets and saves the max dining limit.	

Date: 14/04/2024	Tester: Adam Hussain
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### Wine Functionality

Evaluation Criteria: Wine Functionality	Criteria Number: 1
Test Number: 3.1	
<b>Setup:</b> The software must be running and the user should be at the home screen. The VPN must be connected.	
<b>Expected Result:</b> The user should be able to add a wine with a chosen name, year and vintage.	
<b>Test:</b> <ol style="list-style-type: none"> <li>1. Log into the software</li> <li>2. Click on the “Wine” button</li> <li>3. At the bottom of the screen, enter the wine name, year and stock.</li> <li>4. Click on the “Add Wine” button</li> <li>5. Click “Back” and then click on “Wine” again</li> <li>6. Check to make sure the changes were saved</li> </ol>	
<b>Result: PASS</b> The system correctly saves the wine with all of the information.	
Date: 14/04/2024	Tester: Adam Hussain

Evaluation Criteria: Wine Functionality	Criteria Number: 2
Test Number: 3.2	
<b>Setup:</b> The software must be running and the user should be at the home screen. The VPN must be connected.	
<b>Expected Result:</b> The user should be able to edit the stock level of the wine.	
<b>Test:</b> <ol style="list-style-type: none"> <li>1. Log into the software</li> <li>2. Click on the “Wine” button</li> <li>3. Decrease the stock level</li> <li>4. Click “Back” and then click on “Wine” again</li> <li>5. Check to make sure the changes were saved</li> </ol>	
<b>Result: PASS</b> The system correctly saves the stock level of the wine.	
Date: 14/04/2024	Tester: Adam Hussain

## Menu Functionality

Evaluation Criteria: Menu Functionality	Criteria Number: 1
Test Number: 4.1	
<p><b>Setup:</b> The software must be running and the user should be at the home screen. The VPN must be connected.</p>	
<p><b>Expected Result:</b> The user should be able to edit the name and description for each item.</p>	
<p><b>Test:</b></p> <ol style="list-style-type: none"><li>1. Log into the software</li><li>2. Click on the “Menu” button</li><li>3. Click on any of the menu buttons to see the menu for a given week</li><li>4. Change the name and description of a dish</li><li>5. Click on “Save Changes”</li><li>6. Click “Back” and then click on “Menu” again and select the menu you edited</li><li>7. Check to make sure the changes were saved</li></ol>	
<p><b>Result: PASS</b> The system correctly allows the editing of all menu items</p>	
Date: 14/04/2024	Tester: Adam Hussain

Evaluation Criteria: Menu Functionality	Criteria Number: 2
Test Number: 4.2	
<p><b>Setup:</b> The software must be running and the user should be at the home screen. The VPN must be connected.</p>	
<p><b>Expected Result:</b> The user should be able to add and remove a wine from a selected dish.</p>	
<p><b>Test:</b></p> <ol style="list-style-type: none"><li>1. Log into the software</li><li>2. Click on the “Menu” button</li><li>3. Click on any of the menu buttons to see the menu for a given week</li><li>4. Click on the Wine option and select a wine</li><li>5. Click on “Save Changes”</li><li>6. Click “Back” and then click on “Menu” again and select the menu you edited</li><li>7. Check to make sure the changes were saved</li></ol>	
<p><b>Result: PASS</b> The system correctly allows the editing of all menu items</p>	
Date: 14/04/2024	Tester: Adam Hussain

Evaluation Criteria: Menu Functionality	Criteria Number: 3
Test Number: 4.3	
<b>Setup:</b> The software must be running and the user should be at the home screen. The VPN must be connected.	
<b>Expected Result:</b> The user should be able to add and remove allergens in the inventory section and the changes should be applied to the menu.	
<b>Test:</b> <ol style="list-style-type: none"> <li>1. Log into the software</li> <li>2. Click on the “Inventory” button</li> <li>3. Make the allergens for all ingredients empty</li> <li>4. Press the “Back” button and then press the “Menu” and select a random menu</li> <li>5. Check to make sure there are no allergens in the menus</li> <li>6. Go back to the “Inventory” screen and add an allergen to an ingredient</li> <li>7. Go back to the “Menu” screen and check to make sure the allergen has been automatically updated</li> </ol>	
<b>Result: PASS</b> The allergens are automatically updated in the menu section upon changing the allergens in inventory.	
Date: 14/04/2024	Tester: Adam Hussain

Evaluation Criteria: Menu Functionality	Criteria Number: 4
Test Number: 4.4	
<b>Setup:</b> The software must be running and the user should be at the home screen. The VPN must be connected.	
<b>Expected Result:</b> The user should be able to see menus for the next four weeks.	
<b>Test:</b> <ol style="list-style-type: none"> <li>1. Log into the software</li> <li>2. Click on the “Menu” button</li> <li>3. Check the dates of the menu to see if they align with future dates</li> </ol>	
<b>Result: PASS</b> The menus are correctly given for the right dates.	
Date: 14/04/2024	Tester: Adam Hussain

Evaluation Criteria: Menu Functionality	Criteria Number: 5
Test Number: 4.5	
<b>Setup:</b> The software must be running and the user should be at the home screen. The VPN must be connected.	
<b>Expected Result:</b> The menu should give a suggested price based on the ingredients.	
<b>Test:</b> <ol style="list-style-type: none"> <li>1. Log into the software</li> <li>2. Click on the “Menu” button</li> <li>3. Click on any of the menu buttons to see the menu for a given week</li> <li>4. Check the suggested price</li> </ol>	
<b>Result:</b> FAIL The external API to get ingredient prices is unavailable making it impossible to give a suggested price.	
Date: 14/04/2024	Tester: Adam Hussain

Evaluation Criteria: Menu Functionality	Criteria Number: 6
Test Number: 4.6	
<b>Setup:</b> The software must be running and the user should be at the home screen. The VPN must be connected.	
<b>Expected Result:</b> Once the menu has been saved, there is a process to send the menu for approval before it's sent to front of house.	
<b>Test:</b> <ol style="list-style-type: none"> <li>1. Log into the software</li> <li>2. Click on the “Menu” button</li> <li>3. Click on any of the menu buttons to see the menu for a given week</li> <li>4. Change the name and description of a dish</li> <li>5. Click on “Save Changes”</li> <li>6. Click “Back” and then click on “Menu” again and select the menu you edited</li> <li>7. Check to make sure the changes were saved</li> </ol>	
<b>Result:</b> FAIL There is no way to send the menu for approval.	
Date: 14/04/2024	Tester: Adam Hussain

## Inventory Functionality

Evaluation Criteria: Inventory Functionality	Criteria Number: 1
Test Number: 5.1	
<b>Setup:</b> The software must be running and the user should be at the home screen. The VPN must be connected.	
<b>Expected Result:</b> Allergens should be able to be added to each item in the Inventory.	
<b>Test:</b> <ol style="list-style-type: none"><li>1. Log into the software</li><li>2. Click on the “Inventory” button</li><li>3. Click on the allergen box for an item</li><li>4. Select an allergen for each item</li><li>5. Click “Back” and then click on “Inventory” again</li><li>6. Check to make sure the changes were saved</li></ol>	
<b>Result:</b> PASS An allergen can be successfully assigned to an item.	
Date: 14/04/2024	Tester: Adam Hussain

Evaluation Criteria: Inventory Functionality	Criteria Number: 2
Test Number: 5.2	
<b>Setup:</b> The software must be running and the user should be at the home screen. The VPN must be connected.	
<b>Expected Result:</b> The user should be able to order items from the inventory.	
<b>Test:</b> <ol style="list-style-type: none"><li>1. Log into the software</li><li>2. Click on the “Inventory” button</li><li>3. Click on the items that need to be ordered by clicking the “Order” checkbox</li><li>4. Click on “Order Selected”</li></ol>	
<b>Result:</b> FAIL The external API does not work so items cannot be ordered.	
Date: 14/04/2024	Tester: Adam Hussain

Evaluation Criteria: Inventory Functionality	Criteria Number: 3
Test Number: 5.3	

<b>Setup:</b> The software must be running and the user should be at the home screen. The VPN must be connected.	
<b>Expected Result:</b> The user should be able to clearly see what items have low stock.	
<b>Test:</b> <ol style="list-style-type: none"> <li>1. Log into the software</li> <li>2. Click on the “Inventory” button</li> <li>3. If any of the items are below the low stock threshold, they should appear red.</li> </ol>	
<b>Result: PASS</b> All items below the threshold set appear in red.	
Date: 14/04/2024	Tester: Adam Hussain

## Sales Functionality

Evaluation Criteria: Sales Functionality	Criteria Number: 1
Test Number: 5.1	
<b>Setup:</b> The software must be running and the user should be at the home screen. The VPN must be connected.	
<b>Expected Result:</b> The user should be able to visualise the report for most popular dishes.	
<b>Test:</b> <ol style="list-style-type: none"> <li>1. Log into the software</li> <li>2. Click on the “Sales” button</li> <li>3. Observe the “Most Popular Dish” graph</li> <li>4. Click on “Day”, “Week” and “Month” to make sure they all generate graphs</li> </ol>	
<b>Result: PASS</b> The graphs for day week and month are generated correctly.	
Date: 14/04/2024	Tester: Adam Hussain

Evaluation Criteria: Sales Functionality	Criteria Number: 2
Test Number: 5.2	
<b>Setup:</b> The software must be running and the user should be at the home screen. The VPN must be connected.	
<b>Expected Result:</b> The user should be able to visualise the report for takings.	

<p>Test:</p> <ol style="list-style-type: none"> <li>1. Log into the software</li> <li>2. Click on the “Sales” button</li> <li>3. Observe the “Takings” graph</li> <li>4. Click on “Day”, “Week” and “Month” to make sure they all generate graphs</li> </ol>	
<p>Result: PASS</p> <p>The graphs for day week and month are generated correctly.</p>	
Date: 14/04/2024	Tester: Adam Hussain

Evaluation Criteria: Sales Functionality	Criteria Number: 3
Test Number: 5.3	
<p>Setup:</p> <p>The software must be running and the user should be at the home screen. The VPN must be connected.</p>	
<p>Expected Result:</p> <p>The user should be able to visualise the report to view booking numbers.</p>	
<p>Test:</p> <ol style="list-style-type: none"> <li>1. Log into the software</li> <li>2. Click on the “Sales” button</li> <li>3. Observe the “Bookings Combined” graph</li> <li>4. Click on “Day”, “Week” and “Month” to make sure they all generate graphs</li> </ol>	
<p>Result: PASS</p> <p>The graphs for day week and month are generated correctly.</p>	
Date: 14/04/2024	Tester: Adam Hussain

### Responsiveness and Performance

Evaluation Criteria: Responsiveness and Performance	Criteria Number: 1
Test Number: 6.1a	
<p>Setup:</p> <p>The software must be running and the user should be logged in at the home screen. The VPN must be connected.</p>	
<p>Expected Result:</p> <p>Whenever a button is pressed to access a new screen, the expected screen is brought up.</p>	

Test:	
<ol style="list-style-type: none"> <li>1. Log into the software</li> <li>2. Press on the button that leads to the desired screen</li> <li>3. Observe results</li> <li>4. Repeat for all screens</li> </ol>	
Result: PASS	
All buttons lead to expected screens.	
Date: 14/04/2024	Tester: Adam Hussain

Evaluation Criteria: Responsiveness and Performance	Criteria Number: 1
Test Number: 6.1b	
Setup:	
The software must be running and the user should be logged in at the home screen. The VPN must be connected.	
Expected Result:	
Whenever the back button is pressed, the user is returned to the home menu.	
Test:	
<ol style="list-style-type: none"> <li>1. Log into the software</li> <li>2. Press on a button that leads to a screen</li> <li>3. Press the back button</li> <li>4. Observe results</li> <li>5. Repeat for all screens</li> </ol>	
Result: PASS	
All buttons lead back to the main menu.	
Date: 14/04/2024	Tester: Adam Hussain

Evaluation Criteria: Responsiveness and Performance	Criteria Number: 2
Test Number: 6.2	
Setup:	
The software must be running and the user should be logged in at the home screen. The VPN must be connected.	
Expected Result:	
Opening another screen should not cause any delay in the opening of the software.	

Test:	
<ol style="list-style-type: none"> <li>1. Log into the software</li> <li>2. Press on a button that leads to a screen</li> <li>3. Press the back button</li> <li>4. Observe results</li> <li>5. Repeat for all screens</li> </ol>	
Result: PASS	
No screens cause any extra delay when opening.	
Date: 14/04/2024	Tester: Adam Hussain

Evaluation Criteria: Responsiveness and Performance	Criteria Number: 3
Test Number: 6.3	
Setup:	
The software must be running and the user should be logged in at the home screen. The VPN must be connected.	
Expected Result:	
There should be no graphical errors running the software	
Test:	
<ol style="list-style-type: none"> <li>1. Log into the software</li> <li>2. Press on a button that leads to a screen</li> <li>3. Press the back button</li> <li>4. Observe results</li> <li>5. Repeat for all screens</li> </ol>	
Result: PASS	
No graphical errors when running the software.	
Date: 14/04/2024	Tester: Adam Hussain

Evaluation Criteria: Responsiveness and Performance	Criteria Number: 4
Test Number: 6.4	
Setup:	
The software must be running and the user should be logged in. Task manager should be opened to observe system resources. The VPN must be connected.	
Expected Result:	
The software should use a small amount of system resources to run.	

<p>Test:</p> <ol style="list-style-type: none"> <li>1. Log into the software</li> <li>2. Press on a button that leads to a screen</li> <li>3. Press the back button</li> <li>4. Observe task manager to see how much system resources are used</li> <li>5. Repeat for all screens</li> </ol>	
<p>Result: PASS</p> <p>The software used at most 250MB of RAM and under 3% of CPU. This only peaked when changing screens, it was using less idling. Both values are a very reasonable amount.</p>	
Date: 14/04/2024	Tester: Adam Hussain

### Input Validation and Error Handling

Evaluation Criteria: Input Validation and Error Handling	Criteria Number: 1
Test Number: 7.1a	
<p>Setup:</p> <p>The software must be running and the user should be at the home screen. The VPN must be connected.</p>	
<p>Expected Result:</p> <p>Logging in with the wrong username and password should give an error.</p>	
<p>Test:</p> <ol style="list-style-type: none"> <li>2. Try logging into the software with a random username and a given password</li> </ol>	
<p>Result: PASS</p> <p>The system did not allow a log-in and gave an error of invalid login credentials.</p>	
Date: 14/04/2024	Tester: Adam Hussain

Evaluation Criteria: Input Validation and Error Handling	Criteria Number: 1
Test Number: 7.1b	
<p>Setup:</p> <p>The software must be running and the user should be at the home screen. The VPN must be connected.</p>	
<p>Expected Result:</p> <p>Logging in with the wrong username and password should give an error.</p>	
<p>Test:</p> <ol style="list-style-type: none"> <li>2. Try logging into the software with a random password and a given username</li> </ol>	

**Result: PASS**

The system did not allow a log-in and gave an error of invalid login credentials.

Date: 14/04/2024

Tester: Adam Hussain

Evaluation Criteria: Input Validation and Error Handling	Criteria Number: 1
Test Number: 7.1c	
Setup: The software must be running and the user should be at the home screen. The VPN must be connected.	
Expected Result: Exiting a menu without saving changes should give a prompt.	
Test: <ol style="list-style-type: none"><li>1. Log into the software</li><li>2. Click on the “Menu” button</li><li>3. Click on any of the menu buttons to see the menu for a given week</li><li>4. Change the name or description of a dish</li><li>5. Press the “Back” button</li></ol>	
Result: PASS The system gave an error that there are unsaved changes.	
Date: 14/04/2024	Tester: Adam Hussain

Evaluation Criteria: Input Validation and Error Handling	Criteria Number: 2
Test Number: 7.2	
<p><b>Setup:</b>            The software must be running and the user should be at the home screen. The VPN must be connected.</p>	
<p><b>Expected Result:</b>            Crashing should have no effect on the database or running of the system.</p>	
<p><b>Test:</b></p> <ol style="list-style-type: none"> <li>1. Log into the software</li> <li>2. Edit different features in all sections</li> <li>3. Open Task Manager and click on “Java(TM) Platform SE Binary” and click “End Task”</li> </ol>	
<p><b>Result: PASS</b>            The system closes without saving changes or causing erroneous data to be generated.</p>	
Date: 14/04/2024	Tester: Adam Hussain

## Recommendations

Overall, the vast majority of tests passed, with the two major failings being the lack of functionality to remove staff holidays and the lack of connectivity to an external API. The external API was not provided to us, however after talking to the development team it became clear that our system is able to manage requests.

## Conclusion

Overall, the software has met the functional requirements set out at the start of the project. The GUI meets the design requirements as shown in the previous testing report so all that was left was to create the functions for each button and this was done successfully. The software performs tasks as expected, is able to handle user inputs whether correct or erroneous and runs smoothly without crashing. To further improve on the software, a search feature in the inventory section may be useful to locate specific items would be useful.

**Title:** GUI Map

**Author(s):** Martinson Yan

### Version history:

Version	Note	Date	Author
1.1	Added document structure	18/04/2024	MM
1.0	Created	17/04/2024	MY

### Introduction

This document provides a GUI map.

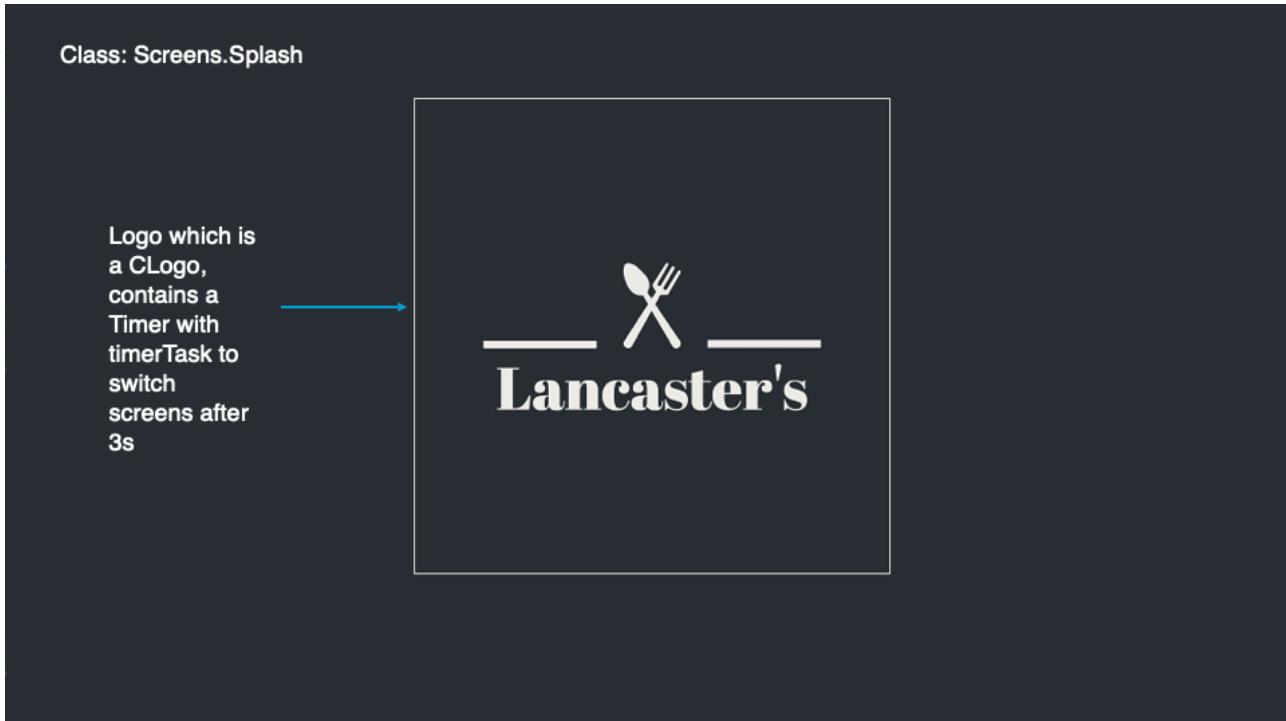
### Purpose

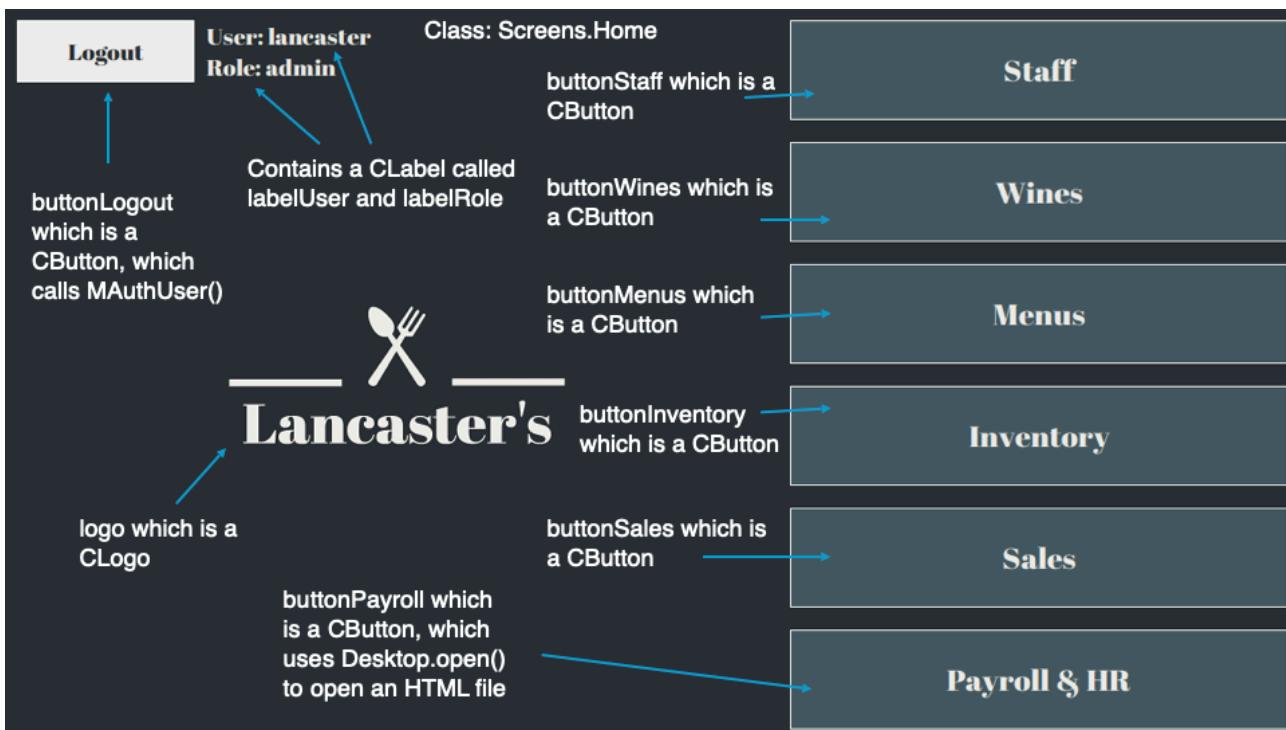
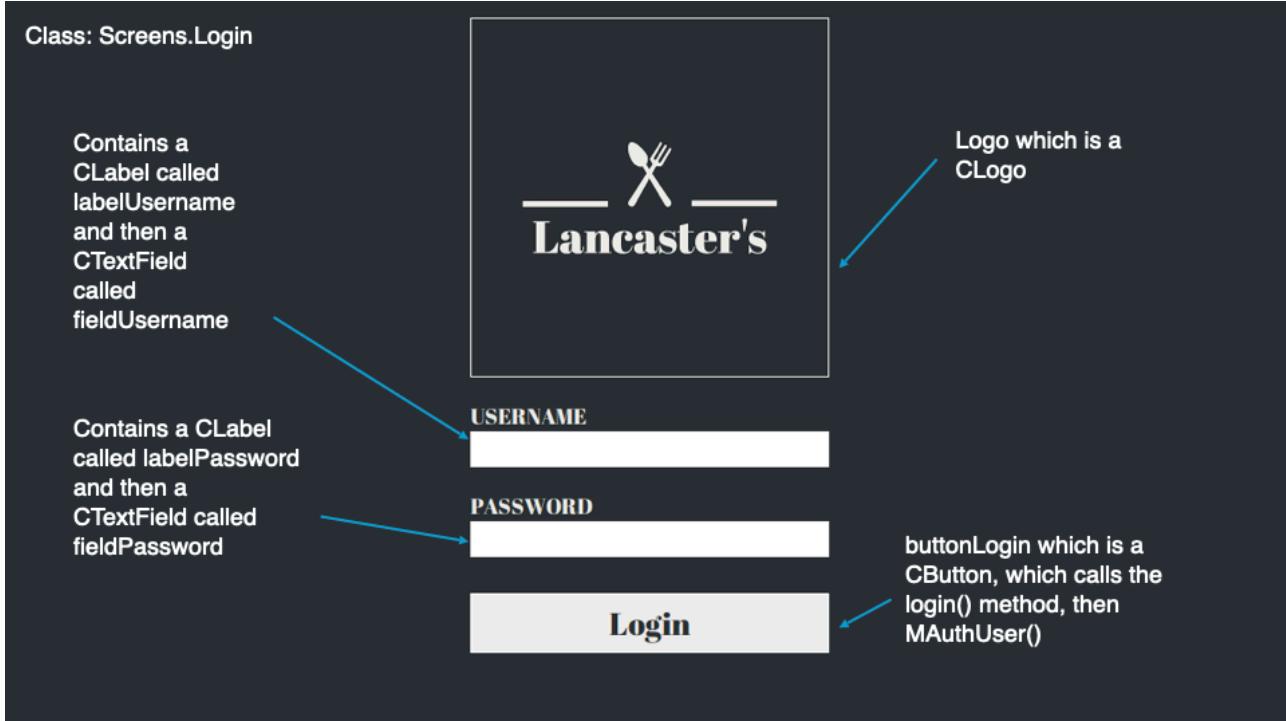
Individuals working with the Lancaster's Management software may find information regarding the mapping of GUI elements to corresponding back-end elements helpful in their work.

### Scope

This document is intended for IT professionals.

### DIAGRAM:





**Back**

**Lancaster's Staff** Class: Screens.Staff

User: lancaster Role: admin

labelDate which is a CLabel Date: 19 April 2024 datePicker which is a CDatePicker

labelAddHoliday which is a CLabel labelHoliday which is a CLabel Contains CDatePicker called holidayFrom and holidayTo JComboBox of class MStaffMember called comboStaff

**ON HOLIDAY**

Jane Doe	FOH	20 Oct 1988	456 Oak Ave
Michael Johnson	Kitchen	8 Mar 1995	789 Elm St
Emily Brown	Kitchen	12 Jul 1992	321 Pine St

labelName is a CLabel which uses class MStaffMember and list staffHoliday

labelRole is a CLabel which uses class MStaffMember and list staffHoliday

labelDob is a CLabel which uses class MStaffMember and list staffHoliday

labelAddress is a CLabel which uses class MStaffMember and list staffHoliday

**WORKING**

John Smith	FOH	15 May 1990	123 Main St
Chris Wilson	Management	30 Dec 1998	567 Maple Ave

labelName is a CLabel which uses class MStaffMember and list staffAvailable

labelRole is a CLabel which uses class MStaffMember and list staffAvailable

labelDob is a CLabel which uses class MStaffMember and list staffAvailable

labelAddress is a CLabel which uses class MStaffMember and list staffAvailable

labelHalfHour which is a CLabel spinnerHalfHour which is a JSpinner

labelPreBook which is a CLabel spinnerPreBook which is a JSpinner

labelMaxDining which is a CLabel spinnerMaxDining which is a JSpinner

saveButton which is a CButton, which calls capacity.saveChanges()

**Half Hour Limit** **Pre Book Limit** **Max Dining Limit** **Save changes**

**Back**

**Lancaster's Wines** Class: Screens.Wines

User: staff Role: user

headerName which is a CLabel

headerYear which is a CLabel

headerPrice which is a CLabel

headerStock which is a CLabel

**NAME**

Cabernet	2019	25.49	40
Chardonnay	2018	19.99	40
Riesling	2017	29.99	33
Syrah	2018	32.99	0
Barbera	2020	21.99	60
Grenache	2016	27.99	25
Malbec	2019	23.99	45
Moscato	2020	18.99	55
Pinot Grigio	2018	26.99	21
Sauvignon Blanc	2017	22.99	42

labelName is a CLabel which uses class MWine and list wines

labelYear is a CLabel which uses class MWine and list wines

spinnerPrice is a CLabel which uses class MWine and list wines

spinnerStock is a CLabel which uses class MWine and list wines

Contains a CLabel called editName and a JTextField called nameText

Contains a CLabel called editYear and a JTextField called yearText

Contains a CLabel called editPrice and a JSpinner called spinnerPrice

Contains a CLabel called editStock and a JSpinner called spinnerStock

Name: Merlot Year: 2024 Price: £ 19.99 Stock: 1 Add wine

**Back**

 **Menus** Class: Screens.Menus

User: staff  
Role: user

Week Range	Average Price: £13.32	Maximum Price: £18.99	Minimum Price: £8.99
15 Apr 2024 - 21 Apr 2024	Current week		
22 Apr 2024 - 28 Apr 2024	Uses CLabel called labelDate which contains CDate		
29 Apr 2024 - 5 May 2024	Contains 3x CLabel called labelAvgPrice, labelMaxPrice and labelMinPrice which uses class CPrice		
6 May 2024 - 12 May 2024	Average Price: £13.32 Maximum Price: £18.99 Minimum Price: £8.99		

**Back**

 **Edit Menu** Class: Screens.EditMenu

User: staff  
Role: user

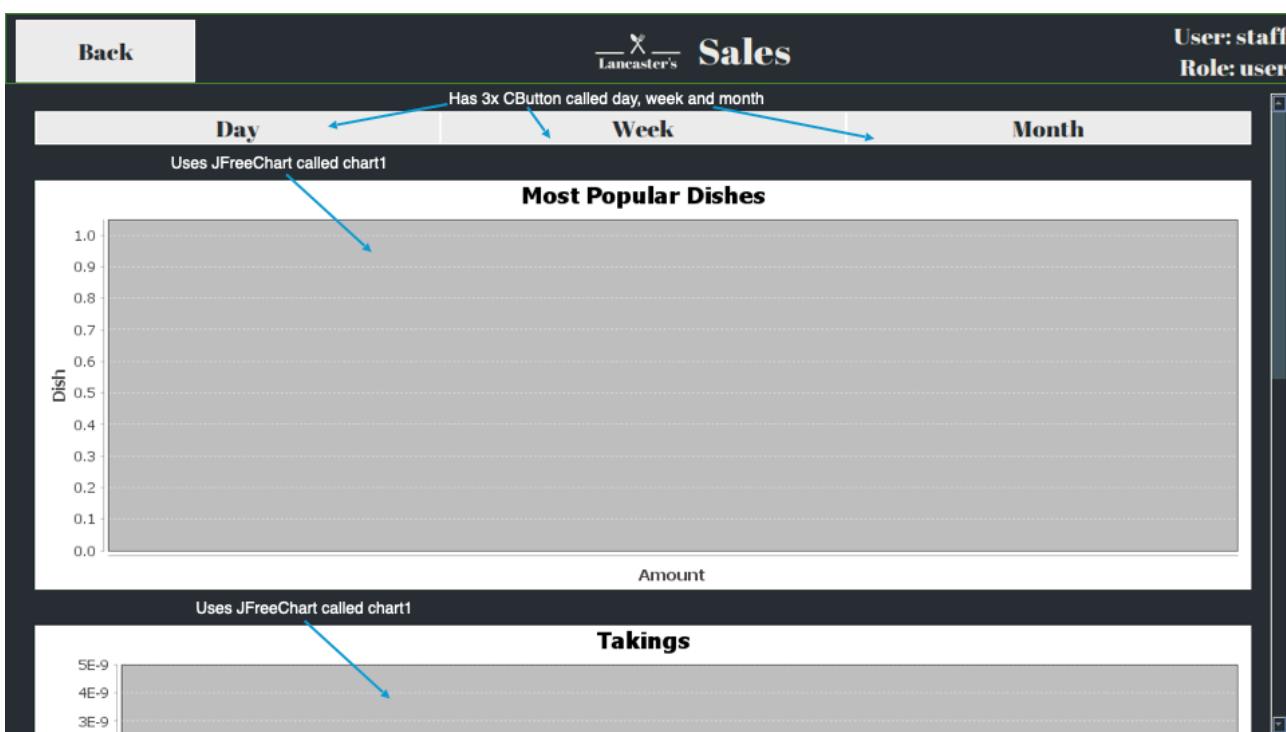
<b>First Course</b>	Uses CLabel called labelCourseName	Uses CTextField called fieldDishName	Uses CLabel called labelDishPrice	Uses JSpinner called spinnerDishPrice
<b>Spaghetti Carbonara</b>	Classic Italian pasta dish with creamy sauce, bacon, and Parmesan cheese.			
Allergens:	Gluten	Uses CTextField called fieldDishAllergens	Wine:	Chardonnay (2018) £19.99 Uses JComboBox of class MWine called comboWine
Uses CLabel called labelDishAllergens		Uses CLabel called labelWine		
<b>Margherita Pizza</b>	Suggested: £10.99 Price: £ 10.99			
Classic Italian pizza topped with tomato sauce, mozzarella cheese, and fresh basil leaves.				
Allergens:			Wine:	Syrah (2018) £32.99
<b>Mushroom Risotto</b>	Suggested: £15.99 Price: £ 15.99			

Navbar which is a CNavbar, which calls MMenu.saveChanges() ← Save changes

**Back**  **Inventory** Class: Screens.Inventory User: staff Role: user

ORDER	NAME	STOCK	PRICE	ALLERGEN
■ Add to order	Chicken Breast	5/10pc	£7.99	
■ Add to order	Beef Steak	30/8pc	£12.99	
■ Add to order	Salmon Fillet	40/12pc	£14.99	
■ Add to order	Shrimp	60/15g	£18.99	
■ Add to order	Pasta	100/20g	£2.49	Gluten
■ Add to order	Rice	10/18g	£1.99	Uses CLabel called labelPrice which uses list ingredient from class MIngredients
■ Add to order	Potatoes	70/15g	£0.99	Uses CLabel called labelStock which uses list ingredient from class MIngredients
■ Add to order	Tomatoes	90/25g	£1.49	
■ Add to order	Lettuce	120/30g	£0.79	
■ Add to order	Cheese	40/9g	£6.49	Uses CButton called orderButton, which calls MOrder and MOrder.addToDB()

Uses CButton called SelectLowButton → **Select Low Stock**    Uses CButton called SelectAllButton → **Select All**    Uses CButton called SelectNoneButton → **Unselect All**    Order Selected



**Title:** File Structure Diagram

**Author(s):** Martinson Yan

### Version history:

Version	Note	Date	Author
1.1	Added document structure	19/04/2024	MM
1.0	Created	18/04/2024	MM

### Introduction

This document provides a file structure diagram.

### Purpose

Individuals working with the Lancaster's Management software may find information regarding the file structure of the codebase helpful in their work.

### Scope

This document is intended for IT professionals.

### DIAGRAM:

-Please see next page

Color scheme:

- Root
- Directory/package
- File/class
- Comment

```
LancastersRestaurant/
├── docs/ #Contains the documents about diagrams and meeting notes
├── lib/
│   ├── LGoodDatePicker/
│   │   ├── LGoodDatePicker-11.2.1.jar #Allows use of calander in GUI
│   │   ├── jfreechar/ #Allows use of charts in GUI
│   │   │   ├── jcommon-1.0.23.jar
│   │   │   ├── jfreechart-1.0.19.jar
│   │   │   └── license-LGPL.txt
│   │   └── mysql-connector-j/
│   │       ├── mysql-connector-j-8.3.0.jar #Allows connection to the database
│   │       └── FOHtoMangement.jar
├── src/
│   ├── Components/ #Contains reuseable GUI elements
│   │   ├── CButton.java
│   │   ├── CDate.java
│   │   ├── CDatePicker.java
│   │   ├── CLabel.java
│   │   ├── CLogo.java
│   │   ├── CNavbar.java
│   │   ├── CPasswordField.java
│   │   ├── CPrice.java
│   │   ├── CScroll.java
│   │   ├── CTextArea.java
│   │   ├── CTextField.java
│   │   └── CWindow.java
│   ├── KitchenToManagement/ #Interface for data transfer between subsystems
│   └── Management/ #Classes to get data from the database
│       ├── MAllergen.java
│       ├── MAuthUser.java
│       ├── MBookingCapacity.java
│       ├── MCourse.java
│       ├── MDish.java
│       ├── MHoliday.java
│       ├── MMenu.java
│       ├── MOrder.java
│       ├── MStaffMember.java
│       └── MWine.java
│   ├── ManagementToFoh/ #Interface for data transfer between subsystems
│   ├── ManagementToKitchen/ #Interface for data transfer between subsystems
│   └── Resources/
│       ├── Colors.java #Class that contains the color element
│       ├── Database.java #Class for connection to the database
│       └── Resources.java #Class that contains functions to retrieve the font and logo
└── Screens/ #Contains the primary classes representing the different screens
    ├── EditMenu.java
    ├── Home.java
    ├── Inventory.java
    ├── Menus.java
    ├── Sales.java
    ├── Splash.java
    ├── Staff.java
    └── Wines.java
    ├── Assets/ #Contains resources like logo, font and webpage
    │   ├── PayrollIHR/ #Payroll html for the payroll button
    │   │   ├── cog.gif
    │   │   ├── index.css
    │   │   └── index.html
    │   └── AbrilFatface-Regular.ttf #text font
    └── LancastersLogo.jpg #logo image
    └── Main.java #The class used to run the code
    └── LancastersRestaurant.iml
```

**Title:** External Libraries Document

**Author(s):** Martinson Yan

### Version history:

Version	Note	Date	Author
1.2	Added document structure	18/04/2024	MM
1.1	Fixed typos	17/04/2024	MY
1.0	Created	17/04/2024	MY

## Introduction

This document provides information about the external libraries used in the Lancaster's Management software. In the first section, a list of all the external libraries is given. In the second section, additional information (e.g. licence, usage rights, modifications) is also provided.

## Purpose

The Lancaster's Restaurant software contains some code that is not originally written by a member(s) of Code Crafters. Therefore, the original authors must be specified and credited for their contributions to this software. Furthermore, Lancaster's Restaurant may hire IT professionals in the future who will work directly with the codebase, including the external libraries. This document aims to provide information and guidance to assist in this work.

## Scope

This document is intended for IT professionals. The information provided relates to the external libraries used in the codebase for the Lancaster's Restaurant software.

### Section 1: List of external libraries

- LGoodDatePicker-11.2.1.jar
- Jcommon-1.0.23.jar
- Jfreechart-1.0.19.jar
- Mysql-connector-j-8.3.0.jar

### Section 2: Additional information

- Library Name: LGoodDatePicker-11.2.1.jar
  - License Type: MIT License
  - Usage Rights Open-source, free to use, modify, and distribute.
  - Modifications: None
- Library Name: JCommon-1.0.23.jar
  - License Type: LGPL
  - Usage Rights: Redistribution with conditions, source code changes must be under LGPL or compatible licenses.
  - Modifications: None

- Library Name: JFreeChart-1.0.19.jar
  - License Type: LGPL
  - Usage Rights: Redistribution with conditions, source code changes must be under LGPL or compatible licenses.
  - Modifications: None
- Library Name: Mysql-connector-j-8.3.0.jar
  - License Type: GPLv2
  - Usage Rights: Requires sharing of your code if you distribute modified connector or linked applications.
  - Modifications: None