System Concept

Develop a system that can be used by customers to order food from a restaurant. The application should be in such a way that apart from being able to select options from the given menu, the customers must be provided input fields where they can specify their name, the date and time of arrival for the order, and the number of guests to be prepared for.

Complementation of restaurant objectives

- The system aims to provide better customer service and management of customer time.
- Develops a relationship with households in the area in an effort to ensure customer safety during this time of a pandemic.
- To incrementally develop a healthy eating menu and support customer's health and well being while enjoying tasty food.

Business Opportunity

The system is designed for the purpose of saving the customer's time that was being lost while waiting at the restaurant for their order to be prepared. The system will be the main vehicle of excellent customer service and a force of demand as our society battles COVID-19 and many households order their food online.

System Actors

Customers – the actors use the system to place an order.
Waiters – these actors use the system to view order information like number of guests, date and time of arrival, and the name of the customer.
Kitchen staff – the actors use the system to view information about the dishes the customer ordered.

System Capabilities

The system provides four windows: the main window with the navigational menus, a window with an electronic form to select menu options and enter order information to be saved to a text file, an uneditable electronic form showing information essential to waiters for doing their job, and a window that is an interface for the kitchen staff and displays a list of the dishes selected accompanied by the number of guests to prepare for.

System Benefits

- For customers their time is saved
- The application drives plausible customer services
- The application will drive sales as every customer wants fast and efficient customer assistance.

Definition of System Requirements

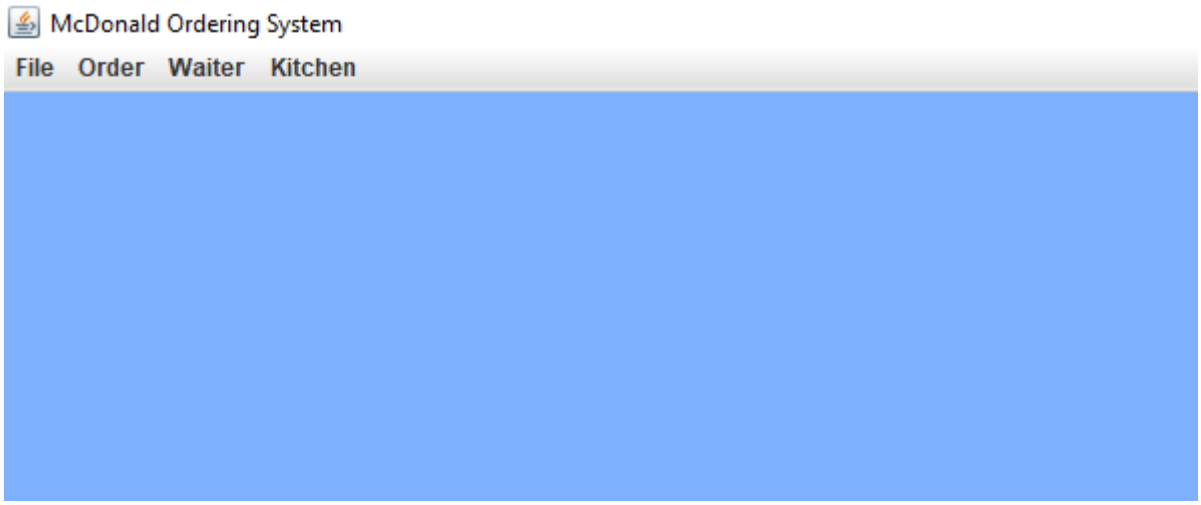
- Design a JFrame ordering interface that a customer will use to select options from the menu, provide their name, the number of guests that should be prepared for, and the time and date of arrival at the restaurant for the order.
- The application must save the order information on a text file.
- Validate order time
- Design a JFrame interface for restaurant waiters to use to view order information like the number of guests, the date and time of arrival for an order, and the name of the ordered customer. The form must get its information from the order
- Design a JFrame interface for the restaurant’s kitchen staff to view customer ordered dishes and the number of guests. Data displayed in this interface must be retrieved from a saved order text file.

Prioritisation of Requirements

Ordered from high to low priority.

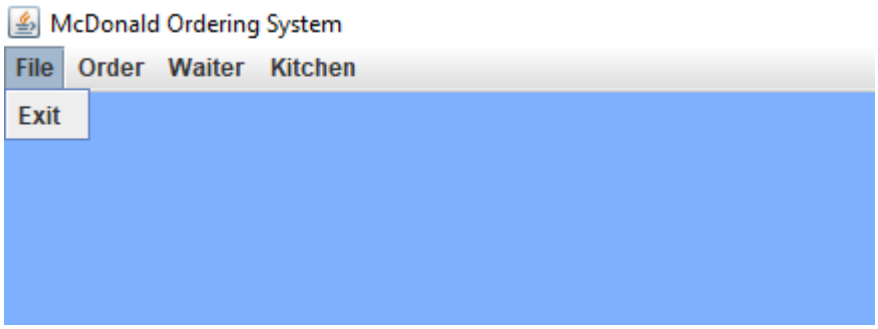
i. Design a JFrame interface that a customer will use to place an order.
ii. Validate order time.
iii. Design a JFrame interface for restaurant waiters.
iv. Design a JFrame interface for the restaurant's kitchen staff.

User Guide



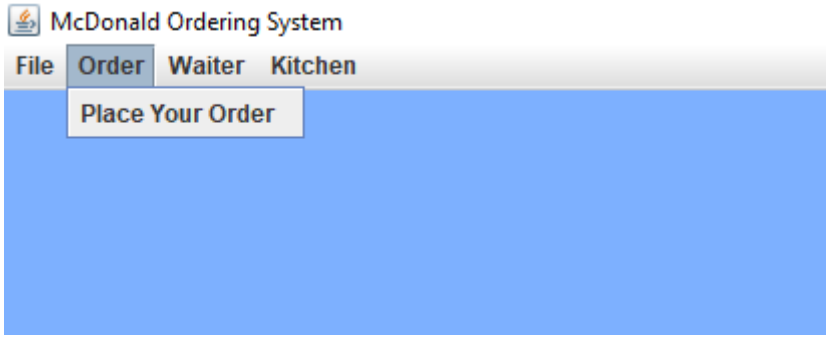
The McDonald Ordering System main page with its navigational menus is displayed above. This is the first window to be displayed when accessing the system.

- The File Menu – this menu contains a single menu item named exit.



  - The exit menu item – this is used to terminate the application run.

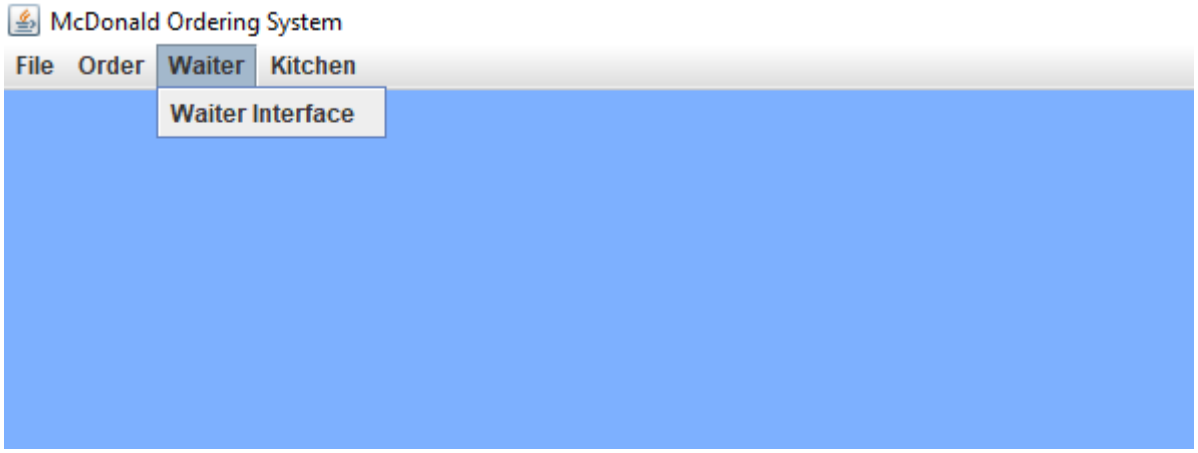
- The Order Menu – this menu contains an option that displays the ordering form.



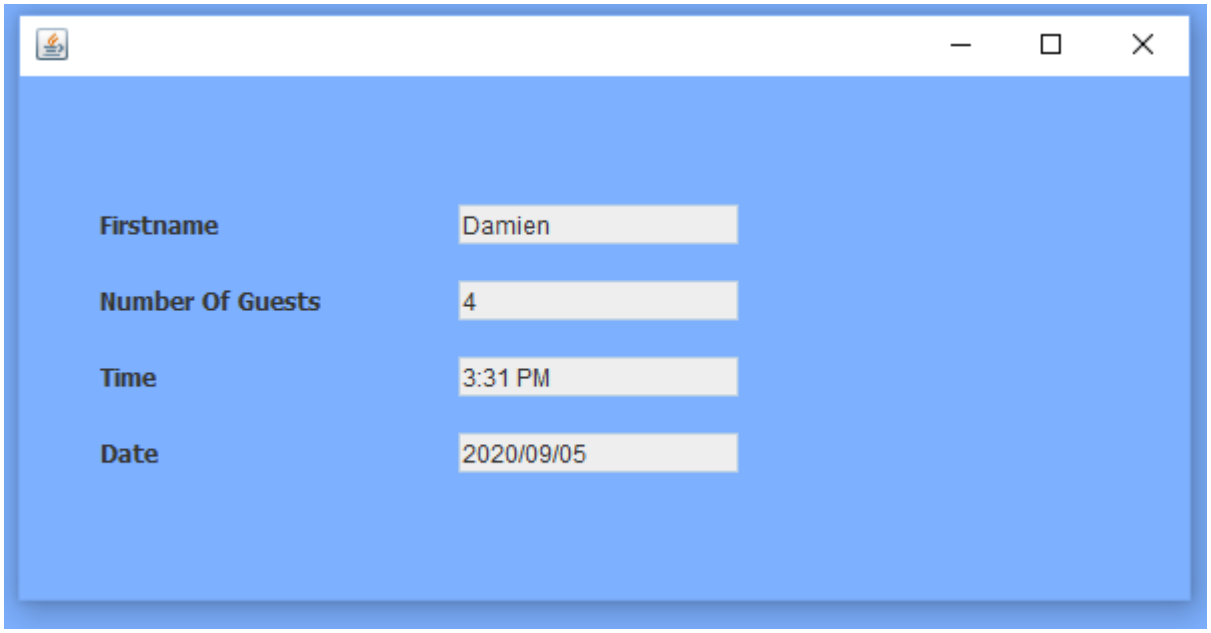
  - The Place Your Order Menu Item – this menu item displays the ordering form used by a customer to place an order.

    - Order Button – this button writes and save to file order details. It does this only if a dish or drink is selected, first name is provided, the date is provided, the time is provided and its not after restaurant hours and not impossible to deliver an order by.
    - Close button – destroys and hides this form.

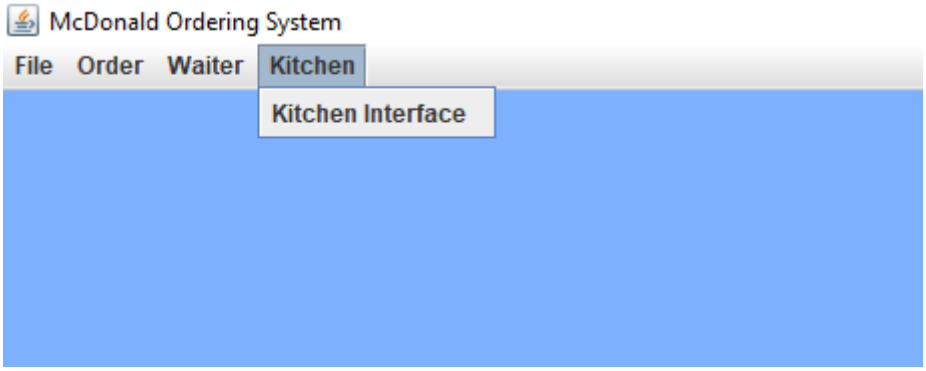
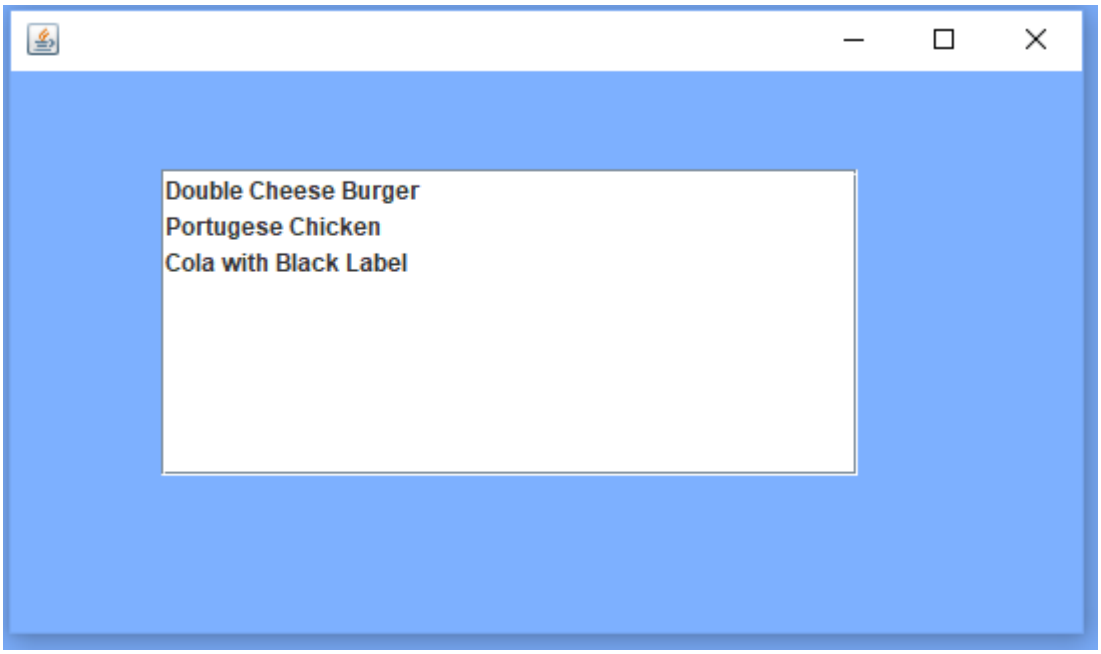
■ The Waiter Menu – This menu contains an option that open the waiter interface.



- Waiter Interface Menu Item – this menu item displays order information such as number of guests to arrive at the restaurant for an order, the time and date of their arrival, and name of the ordered customer.



■ The Kitchen Menu – this menu contains a kitchen interface menu item.



- The Kitchen Interface menu item – this menu item displays an interface with a list box that contains dishes ordered by and the number of guests to prepare for.