Group Members: Clinton Kobe, Joaddan Cadet, John Williams, Neil Indrupati

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WHAT IS OUR CODE?

This program simulates a restaurant management system where customers can dine in and order food or make reservations online. It allows customers to interact with the system through the command line.

HOW DOES OUR CODE WORK?

1. **Run the Code:** When starting to run our code enter (final_draft.py) into the terminal
2. **Include CSV file:** Include bigmenu.csv into the directory
3. **Welcome and Dining Choice:** Our overall program will welcome and ask the user if they are dining if yes
4. **Table Assignment:** Then our program will assign the table based on the number of guests.
5. **Display Menu:** The user will be shown the menu and prices for each food item
6. **Ordering:** The waiter will then ask “What would you like to eat”
7. **Menu Options**: Based on the keyword that it implemented the menu will give a list of options
8. **Pick Food Selection:** Then will ask the customer based on the choice given the final option, what food item they would like to eat.
9. **Keyword Match:** The user then could say things like “Chicken” and it will match all the items that have the word chicken in it
10. **Actual Food Selection:** The user will then type in exactly what menu item they would like (including the uppercase and lowercase)
11. **Repeat For Guest:** Steps 5 to 10 will be repeated for each guest, based on the number given
12. **Calculating The Bill:** After all guests have chosen their food item the waiter will then give the users the cumulative of all the guest
13. **Online Reservation** If the guest chooses no for dining, the user will be redirected to an online reservation system.

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Online Reservation

1. **Prints Reservation Booking**: shows a message that the user can make a reservation booking
2. **Date Input**: Ask the user to input their booking date formatting it like DD/MM/YYYY
3. **Reserve a table:** Shows a message to reserve a table for us to put the table number they want to reserve
4. **Invalid choice:** If the user enters something other than yes or no, it will print an invalid choice.
5. **Conclude Message:** Whenever the user is done, it will print “Thank you for dining in our restaurant” to end the program

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EXAMPLE OF A RUNTHROUGH

Phase 1: Welcome to J.J.K.N Grill & Buffet!

Are you dining in today? (yes/no) {Enter yes/no}

Phase 2: If **Yes** then (How many guests are in your party today? {Enter number})

If **No** then (RESERVATION BOOKING: What date would you like to book for? (DD/MM/YYYY): {Enter a date using format}

Phase 3(If **Yes**):(*Menu Displays*)What would you like to eat today? { Enter keyword from menu} {chicken}

Phase 4(If **Yes**): “Menu items matching "chicken":

“Chicken Sandwich with Onion Rings”

“Chicken Tikka Masala with Rice”

“Chicken Rice Bowl”

Please choose an item you would like to eat:

Phase 5(If **Yes**): User picks {item} for this example “Chicken Rice Bowl” (written exactly)

Phase 6 (If **Yes**) Bills:

Customer: $12.99

Thank you for dining in our restaurant!

Phase 3 (If **No**): Reserve a Table:

Enter the table number you want to reserve (1-5): {Enter a number}

Phase 4 (If **No**): Table {User Picked Number} has been reserved.

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Attribution

Method/function	Primary author	Techniques demonstrated
for person, party size in customer_info	John Williams	Sequence Unpacking:Stuff in the tuples in customer_info are unpacked into person and party size in each iteration
billcalc()	John Williams	Use of a lambda function with the sorted() function
def find_food	Joaddan Cadet	List comprehension filters self. foods
Menu.read_menu_from_csv()	Joaddan Cadet	With statements, CSV file handling
def welcome_guest	Clinton Kobe	F-string containing expression
def _inint_ : (class Restaurant)	Clinton Kobe	Optional parameters and/or keyword arguments
def _str_ (Restaurant)	Clinton Kobe	Magic method
def assign_guests()	Neil Indrupati	Conditional expression
restaurant_tables()	Neil Indrupati	Dictionary key values

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Repository Files

bigmenu.csv (John)- A CSV file containing item names and price for foods that are available at J.J.K.N. grill.

Final.py - Project code that represents a restaurant process from the waiter seating guests to displaying the menu and letting guests take orders.

final_draft.py - A rough draft of our working code.