

UNIVERSITI TEKNOLOGI MARA KEDAH BRANCH, SCHOOL OF INFORMATION SCIENCE COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS

DIPLOMA IN LIBRARY INFORMATIC (CDIM144)

IML208: PROGRAMMING FOR LIBRARIES

INDIVIDUAL ASSIGNMENT: "RESERVATION SYSTEM"

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SUBMISSION DATE: 4 JANUARY 2024

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KEDAH BRANCH

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1.0 INTRODUCTION

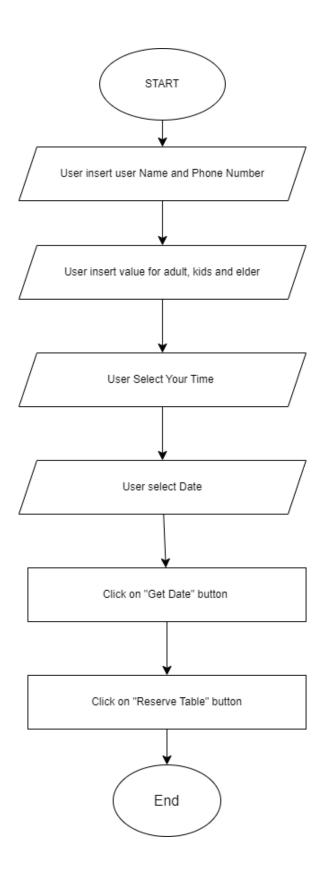
I selected to perform a system coding python for a buffet restaurant reservation system for this assignment. The system is a basic Python programme application constructed with Tkinter for the graphical user interface (GUI) and MySQL Connector to connect the Python programme to the database. required the user to enter a few details in order to make a reservation at the shop.

The user's name and phone number are entered into fields on the GUI. Users are then asked to provide a number for adult, child, and elder. To proceed with the booking process, time and date must be chosen. Finally, users must click the "reserved table" option. The computation process will begin immediately after consumers press the button. There are three price categories: adults (RM60), children (RM30), and seniors (RM40). As a result, it is critical for users to provide a number for each person while following the categories to obtain the correct price. Because the restaurant will open at 4PM and close at 10PM, the time possibilities are limited to 4PM to 9PM. After entering all of the information and clicking the "reserved table" button, the user has successfully made a reservation.

So, for database interaction, the system constructs an interactive cursor after connecting to the MySQL database. The information is then inserted into the "reserva_buffet" table, which contains the name, phone_number, num_adult, num_kids, num_elder, time, date, and total cost. The system will print "Data Inserted Successfully" once you insert the data into the reserva_buffet table in MySQL Connection. As a result, database interactions are handled by implementing suitable error handling and printing appropriate messages to the terminal.

Finally, the Buffet Reservation System provides the structure for reservation data, computing total cost, and storing data in a MySQL database. It serves as a medium for users to address individual needs and increase the overall standard of usability. Aside from that, it could help to make it easier for consumers to make reservations through the system without having to phone or walk into the restaurant.

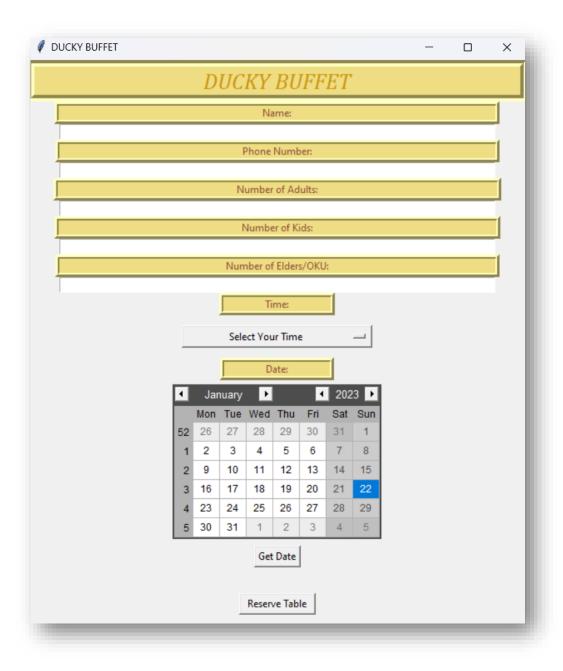
2.0 FLOWCHART



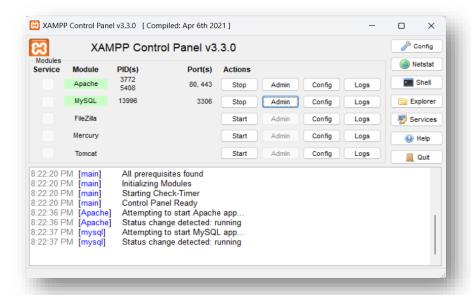
3.0 PYTHON CODE

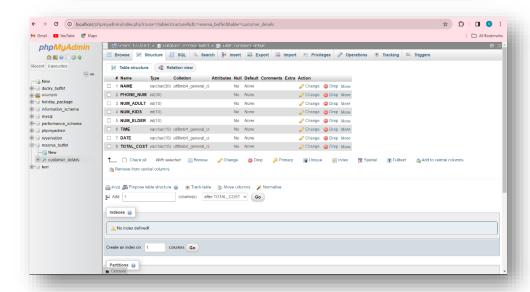
```
181
182 # Update Table Listbox
183 # update_table_listbox()
184
185 # Run the main loop
186 root.mainloop()
187
```

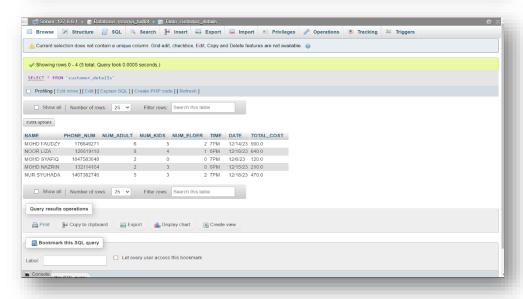
4.0 GRAPHICAL USER INTERFACES (GUI)



5.0 DATABASE







6.0 CONCLUSION

Finally, the Reservation System is a well-designed Python programme with a graphical user interface (GUI) constructed using Tkinter and coupled with a MySQL database through the MySQL Connector. The system processes user inputs for user reservation data effectively, does real-time total cost calculations, and stores the data in a MySQL database table named "reserva_buffet." The system implements appropriate error handling during database interactions to ensure proper data entry into the database. Feedback techniques such as the "Data Entered Successfully" message improve system reliability. Overall, the Reservation System provides a solid foundation for managing database transactions, total calculations, and data organisation.

To summarise, I learned a lot of new things about how to code a system in Python during this assignment. I developed a new way to give commands, and there are numerous ways to construct and use them in your system. It is critical to conduct additional research and exploration in order to get more knowledge. Furthermore, this job taught me how to be more patient and persistent. Aside from that, I'd want to thank my classmates and lecturer, Sir Airul, for their assistance and guidance while I attempted to accomplish my task.