

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

DIPLOMA IN LIBRARY INFORMATIC (CDIM144)
IML208: PROGRAMMING FOR LIBRARIES

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INDIVIDUAL PROJECT.
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CDIM144 – DIPLOMA IN LIBRARY INFORMATICS

SCHOOL OF INFORMATION SCIENCE

COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS

UNIVESITI TEKNOLOGI MARA (UITM)

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Programmes code: CDIM144 - DIPLOMA IN LIBRARY INFORMATICS

Faculty/Campus: COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS / K-

KAMPUS SUNGAI PETANI

*Students are required to sign one pledge for each course taken.

Bahagian Pentaksiran dan Penilaian Akademik

ACKNOWLEGDEMENT

This assignment has been a lot of work, but I could not have done it without the support and guidance from some very important people. First of all, I want to thank Sir Airul Shazwan for his help with this assignment and he also provided the resources as well as essential information that was needed to complete my task successfully.

Thank you also goes out to my parents and friends who were there every step of the way during this time period-without them, I am not sure what would have happened.

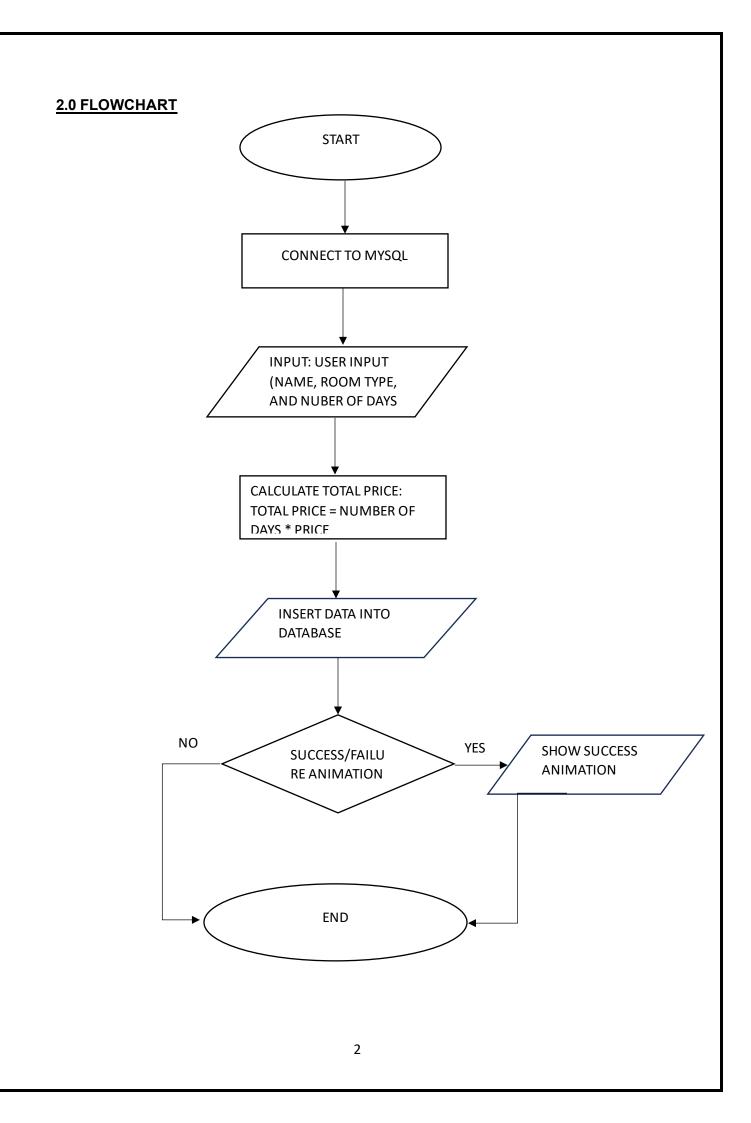
I also want to thank all of the people who have been working alongside on this project. It is so great that you are willing to help out when I need it. Thank you for your hard work and dedication, which has made my success possible.

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1.0 INTRODUCTION

Using Python, the Tkinter library for the graphical user interface, and MySQL for database interactions, I created a hotel registration system for this project. This application's goal is to give visitors an easy-to-use way to book their stay at the hotel. Users are prompted by the interface to enter their name, choose a type of room, and indicate how long they plan to stay. The code securely connects to a MySQL database in the background to enable the storing of guest data and the computation of the total cost based on the selected room type and duration. By offering visual feedback, the addition of success and error animations improves the user experience. This code provides the framework for a working hotel registration system and presents chances for improvement and growth in the areas of database management, user interface design, and security. Starting to develop this hotel registration system has been a gratifying experience in design and coding. I've created an interactive platform that simplifies the guest registration process by utilising the capabilities of Python, Tkinter, and MySQL. The goal of this project is to provide a smooth user experience by asking visitors to enter basic information about themselves, including name, preferred room type, and length of stay. This data is securely stored thanks to the integration with a MySQL database, which makes guest record management easy. The user interface's inclusion of success and error animations, which give users instant visual feedback, is one of its best features.



3.0 SNAPSHOT OF CODE

```
# hotel_registration.py X

NNDVASS203 > # hotel_registration.py > ...

**room_label_pack()

**room_var = tx.StringVar(root)

**room_var(pack) = tx.Label(root, text="Guest Name:", bg='pink', fg='purple')

**room_var(pack) = tx.Label(root, text="Guest Name:", bg='pink', fg='purple')

**room_var(pack) = tx.Label(root, text="Guest Name:", bg='pink', fg='purple')

**room_var(pack) = tx.Label(root, text="Mumber of Days:", bg='pink', fg='purple')

**days_label_pack()

**days_label_pack()

**days_label_pack()

**days_label_pack()

**days_label_pack()

**days_label_pack()

**days_label_pack()

**days_nerty= tx.Entry(root)

**days_label_pack()

**days_nerty= tx.Entry(root)

**days_label_pack()

**days_nerty= tx.Entry(root)

**register_button = tx.Button(root, text="Register", command=register_guest, relief=tx.GROOVE, bg='purple', fg='white')

**register_button = tx.Button(root, text="Register", command=register_guest, relief=tx.GROOVE, bg='purple', fg='white')

**register_button.pack(pady=10)

**register_button.bind('<text="", lambda event: register_button.config(bg='gold'))

**register_button.bind('<text="", lambda event: register_button.config(bg='gold'))

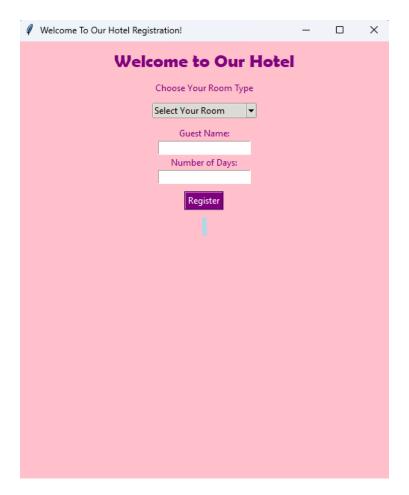
**register_button.bind('<text="", lambda event: register_button.config(bg='gold'))

**register_button.bind('<text="", lambda event: register_button.config(bg='gold'))

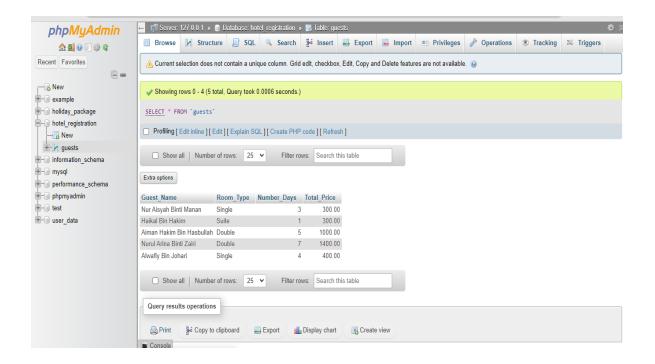
**register_button.doon('comtex=', lambda event: register_button.config(bg='gold'))

**regist
```

4.0 SNAPSHOT OF GUI



5.0 SNAPSHOT OF DATABASE



6.0 CONCLUSION

In conclusion, the Hotel Registration is a simple hotel registration system that was created with MySQL for database interactions and Tkinter for the graphical user interface. It connects to a MySQL database so that users can enter their name, choose a type of room, and indicate how many days they would like to stay. The total cost is determined during the registration process by factoring in the type of room selected and the length of stay. This data is then entered into the MySQL database's "guests" table. An output label displaying animations indicating success or error provides the user with feedback through a visual interface. There is room for improvement even though the code shows that the registration system is operational. The use of an empty password for the MySQL connection raises security concerns, and input validation should be improved to guarantee data integrity. More instructive messages could also enhance the user experience, and error logging could be added for more effective debugging. For a more flexible application, the modularity and concern separation of the code could be improved, and dynamic pricing from the database and internationalisation support could be taken into account. The overall goal of these factors is to improve the hotel registration system's usability, security, and maintainability. This is a useful and aesthetically pleasing system could be created by combining MySQL for database interactions with Tkinter for the user interface. I like that users can easily register their details thanks to the database's smooth connectivity. The application gains a dynamic element when the total price is computed based on the type of room and length of stay. Despite the project's success, I recognise the value of ongoing development. In subsequent iterations, I intend to concentrate on implementing secure practices, improving user input validation, and improving the overall user experience. I've learned a lot from working on this project, and I'm excited to use these abilities in my future undertakings.