

UNIVERSITI TEKNOLOGI MARA (UiTM), CAWANGAN KEDAH, KAMPUS SUNGAI PETANI

FACULTY OF COLLEGE OF COMPUTING, INFORMATICS AND MEDIA

DIPLOMA IN LIBRARY INFORMATICS (CDIM144)

PROGRAMMING FOR LIBRARIES

(IML208)

GROUP PROJECT: DESIGN AND DEVELOP ONE COMPLETE PROGRAM (ROOM RENTAL)

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COLLEGE OF COMPUTING, INFORMATIC AND MATHEMATIC

UNIVERSITI TEKNOLOGI MARA (UITM) CAWANGAN KEDAH

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Greetings,

First of all, we would like to express our gratitude for being given good health during the period of completing this given assignment. With God's permission, we was able to complete it in the given period. This work was done with our own efforts and the help from lecturer and the other friends of us.

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Last but not least, we would like to thanks to our loving family for always support us until now. Because of them, we became more confident and ready to achieve something. we hope all the efforts we have made are not buried just like that while we are at this university. Getting good grades is not easy. To be honest, after making this assignment, we have learned many new things that we did not know before. we promise to use this knowledge in the future.

TABLE OF CONTENT

Contents

ACKNOWLEDGEMENT	vi
TABLE OF CONTENT	vii
1.0 INTRODUCTION	1
2.0 OBJECTIVE	2
2.1 Efficient Property Management:	2
2.2 User-Friendly Interface:	2
2.3 Automated Booking and Reservations:	2
2.4 Transparent Pricing and Policies:	2
2.4 Payment Processing:	2
3.0 PROBLEM STATEMENT FOR ROOM RENTAL SYSTEM	3
3.1 Lack of Centralized Management	3
3.2 Insecure Payment Processing	3
3.3 Communication Gaps	3
3.4 Complex Booking Procedures	3
4.0 FLOWCHART	4
4.1 Registration Flowchart	4
4.2 Payment Detail	5
5.0 CODE FOR ROOM RENTAL	6
6.0 GUI FOR ROOM RENTAL SYSTEM	17
6.1 Main Interface	17
6.2 Registration GUI	17
6.3 Room List	18
6.4 Payment Detail	18
6.5 About GUI	19
7.0 DATABASE FOR ROOM RENTAL SYSTEM	19
7.1 REGISTRATION TABLE	19
7.1.1 Registration Browse	19
7.1.2 Registration Structure	20
7.2 PAYMENT DETAIL TABLE	20
7.2.1 Payment Detail Browse	20
7.2.2 Database Structure For Payment Detail	
8.0 CONCLUSION	
	22

1.0 INTRODUCTION

Room rental refers to the practice of leasing or renting out a room within a property to an individual or group for a specific period. This arrangement is common in various settings, including residential, commercial, or hospitality environments. Room rentals are prevalent for a variety of reasons, such as providing temporary accommodation for travellers, students, or individuals seeking short-term living arrangements.

In residential contexts, homeowners or tenants may choose to rent out a spare room to generate additional income or share living expenses. This can be particularly appealing in urban areas where housing costs are high. Additionally, room rentals can offer a more affordable housing option for individuals looking for temporary or flexible living arrangements.

Room rental arrangements usually involve a formal agreement outlining the terms and conditions of the rental, including rental amount, length of stay, house furnishings, house rules and any other relevant details. The rise of online platforms has simplified the process of finding and booking room rentals, making it easier for both property owners and tenants to connect and transact.

Whether for residential or commercial purposes, room rentals play an important role in providing flexible housing solutions and contributing to the sharing economy. They cater to diverse needs, from affordable housing alternatives to convenient short-term stays, offering a versatile and dynamic approach to accommodation.

For this project, we had make the room rental system because this system is a comprehensive and user-friendly platform designed to streamline the process of renting individual rooms within a property. Whether you are a landlord looking to efficiently manage your rental spaces or a tenant searching for a convenient and transparent way to secure accommodations, this system aims to meet your needs.

2.0 OBJECTIVE

The objectives of a room rental system can vary based on the specific goals and requirements of the platform or service. However, here are some common objectives that a **room rental system** might aim to achieve:

2.1 Efficient Property Management:

Streamline the process of managing rental properties, including room availability, bookings, and lease agreements.

2.2 User-Friendly Interface:

Develop an intuitive and user-friendly interface for both landlords and tenants to easily navigate the system.

2.3 Automated Booking and Reservations:

Implement an automated booking system that allows tenants to easily check room availability, make reservations, and complete the booking process online.

2.4 Transparent Pricing and Policies:

Ensure transparency in pricing and rental policies to build trust between landlords and tenants.

2.4 Payment Processing:

Facilitate secure and efficient online payment processing for rental transactions, including rent payments, security deposits, and other related fees.

3.0 PROBLEM STATEMENT FOR ROOM RENTAL SYSTEM

Renting rooms within a property should be a seamless and transparent process, benefiting both landlords and tenants. However, the current landscape presents several challenges that hinder the efficiency and convenience of room rentals.

The Room Rental System aims to address the following key problems:

3.1 Lack of Centralized Management

Many landlords struggle with the manual organization of room availability, lease agreements, and tenant details. This often leads to inefficiencies, confusion, and a lack of a centralized system for effective property management.

3.2 Insecure Payment Processing

Security concerns surrounding online payment processing can deter tenants from making payments through digital platforms. Landlords face challenges in providing a secure payment environment, impacting the overall trustworthiness of the rental system.

3.3 Communication Gaps

The lack of efficient communication tools within existing systems results in delays and misunderstandings between landlords and tenants. Improved communication channels are necessary to facilitate timely and clear interaction.

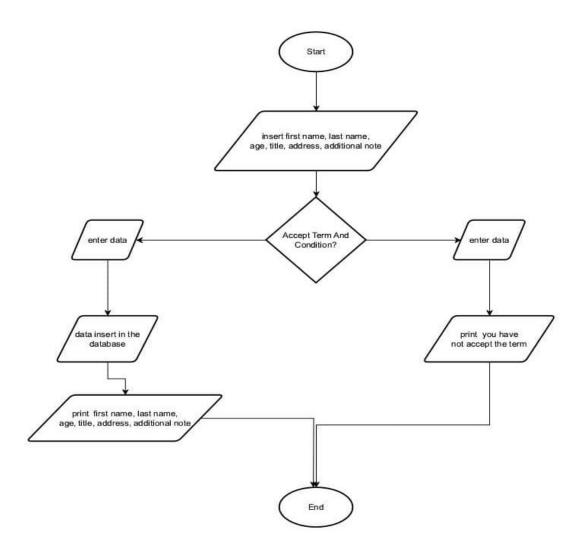
3.4 Complex Booking Procedures

Existing booking procedures for renting individual rooms are often convoluted and time-consuming. Tenants may face difficulties in checking real-time availability, making reservations, and completing the booking process online.

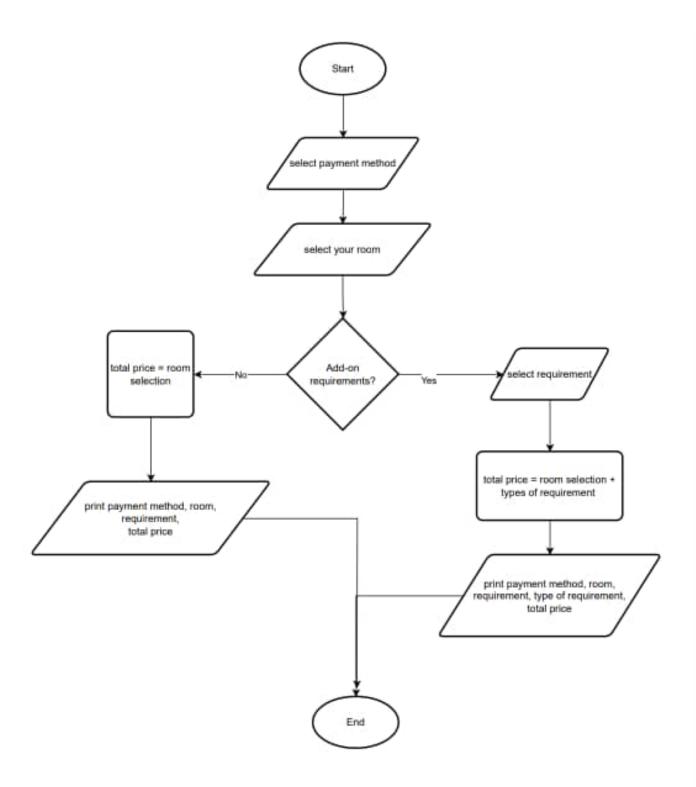
By addressing these challenges, the Room Rental System aims to revolutionize the room rental experience, offering a solution that enhances efficiency, transparency, and security for both landlords and tenants. This platform seeks to overcome existing shortcomings and provide a user-friendly, centralized, and reliable system for managing room rentals.

4.0 FLOWCHART

4.1 Registration Flowchart



4.2 Payment Detail



5.0 CODE FOR ROOM RENTAL

```
import tkinter as tk
from tkinter import *
from PIL import Image, ImageTk
from tkinter import ttk
import mysql.connector
from tkinter import messagebox
def open_about():
    about_window = Toplevel(root)
    about_window.title("About Us")
    about_window.geometry("1198x6000")
    image= ImageTk.PhotoImage(Image.open("house.png"))
    #img = img.resize((400, 200), Image.ANTIALIAS)
    photo=tk.Label(about_window, image=image, bg='white')
    photo.pack(fill='x')
    about=tk.Label(about_window, text="\nRENT A ROOM. your hassle-free
solution for affordable and comfortable room rentals.\nWe specialize in
simplifying your accommodation search, offering a diverse range of\noptions
for travelers, students, and professionals. Our mission is to prioritize
your\ncomfort and provide a seamless renting experience. Choose Rent A Room
for easy\nand affordable living solutions. Your ideal room is just a click
away!\n\n\n"
                ,bg='#FEF0CA', font=('century', 17)
    about.pack(fill='both')
    about_window.mainloop()
#user registration
def open registration():
    registration_window = Toplevel(root)
    registration_window.title("Registration")
   registration window.geometry("750x575")
```

```
mydb = mysql.connector.connect(
    host="localhost",
    user="root",
    password="",
    database="room rental"
    mycursor = mydb.cursor()
    def update_entry_data():
        mycursor.execute("SELECT * FROM registration")
        entries = mycursor.fetchall()
        # Clear existing items in the listbox
        entry data.delete(0, tk.END)
        # Insert fetched data into the listbox
        for entry in entries:
            data = f'First Name: {entry[0]}, Last Name: {entry[1]}, Title:
{entry[2]}, Age: {entry[3]},\n' \
                f'Address: {entry[4]}\nNote: {entry[5]}'
            entry_data.insert(tk.END, data)
    def enter_data():
        first=name entry.get()
        last=lastname_entry.get()
        title=title_combobox.get()
        age=age_entry.get()
        address=address_entry.get("1.0", tk.END).strip()
        note=note_desc_entry.get("1.0", tk.END).strip()
        status= check_status_var.get()
        if status != 'Accept':
            messagebox.showwarning("Terms not Accepted", "Please accept the
terms and conditions.")
            return
        print('First Name:',first, 'Last Name:',last,
'Title:',title,'Age:',age,'Address:',address,'Additional Note:',note )
        data = f'First Name: {first}, Last Name: {last}, Title: {title}, Age:
{age},\n'\
            f'Address: {address}\nNote: {note}'
        entry_data.insert(tk.END, data)
        sql = "INSERT INTO registration (first, last, age,title , address,
note) VALUES (%s, %s, %s, %s, %s, %s)"
        val = (first, last, title, age, address, note,)
```

```
mycursor.execute(sql, val)
        mydb.commit()
    def deleting():
        selected index = entry data.curselection()
        if selected index:
            selected item = entry data.get(selected index)
            # Extract first name from the selected item (you may need to
adjust this based on your data structure)
            first_name = selected_item.split(":")[1].split(",")[0].strip()
            # Delete from the database
            delete sql = "DELETE FROM registration WHERE first = %s"
            mycursor.execute(delete_sql, (first_name,))
            mydb.commit()
            # Clear the selected item from the listbox
            entry_data.delete(selected_index)
   def update():
        selected_index = entry_data.curselection()
        if selected index:
            selected_item = entry_data.get(selected_index)
            # Extract first name from the selected item (you may need to
adjust this based on your data structure)
           first_name = selected_item.split(":")[1].split(",")[0].strip()
            # Retrieve the existing data from the database
            select sql = "SELECT * FROM registration WHERE first = %s"
            mycursor.execute(select_sql, (first_name,))
            existing_entry = mycursor.fetchone()
            # Update the data with new values
            first = name_entry.get()
            last = lastname entry.get()
            title = title_combobox.get()
            age = age_entry.get()
            address = address_entry.get("1.0", tk.END).strip()
            note = note_desc_entry.get("1.0", tk.END).strip()
            # Update the data in the database
            update_sql = "UPDATE registration SET first=%s, last=%s, age=%s,
title=%s, address=%s, note=%s WHERE first=%s"
            val = (first, last, age, title, address, note, first_name)
            mycursor.execute(update_sql, val)
            mydb.commit()
           # Update the data in the listbox
```

```
updated_data = f'First Name: {first}, Last Name: {last}, Title:
{title}, Age: {age},\n' \
                        f'Address: {address}\nNote: {note}'
            entry data.delete(selected index)
            entry data.insert(selected index, updated data)
#book entry frame
    entry_frame= tk.LabelFrame(registration_window, text="REGISTRATION FORM",
pady=30, padx=25, font= ( "Arial Black", ), bg="#B87C4C", height=90)
    entry frame.pack(fill='both')
    title_label=tk.Label(entry_frame, text='FIRST NAME', font=( 'Bahnschrift',
12), bg='#B87C4C')
    title label.grid(row=0, column=0)
    author_label=tk.Label(entry_frame, text='LAST NAME', font=( 'Bahnschrift',
12),bg='#B87C4C')
    author label.grid(row=0, column=1)
    name_entry=tk.Entry(entry_frame, bg='#FFF6E8', )
    lastname_entry=tk.Entry(entry_frame, bg='#FFF6E8')
    name_entry.grid(row=1, column=0)
    lastname_entry.grid(row=1, column=1)
    title_label=tk.Label(entry_frame, text='TITLE',font=( 'Bahnschrift', 12),
bg='#B87C4C')
    title_combobox=ttk.Combobox(entry_frame, values=['Mr.', 'Mrs.', 'Dr.',
'Datuk', 'Datin', 'Tan Sri', 'Puan Sri',],)
    title_label.grid(row=0, column=4, padx=50)
    title_combobox.grid(row=1, column=4, padx=100)
#genre_combobox.set('select genre')
    age_label=tk.Label(entry_frame, text='AGE',font=('Bahnschrift', 12),
bg='#B87C4C', padx=100)
    age_entry=tk.Entry(entry_frame, bg='#FFF6E8')
    age_label.grid(row=0, column=3)
    age_entry.grid(row=1,column=3)
    address_label=tk.Label(entry_frame, text='ADDRESS', font=( 'Bahnschrift',
12),bg='#B87C4C')
    address_entry=tk.Text(entry_frame, height=4, width=25, bg='#FFF6E8')
```

```
address_label.grid(row=6, column=0, columnspan=2)
    address entry.grid(row=7,column=0, columnspan=2)
    note_desc=tk.Label(entry_frame, text='ADDITIONAL NOTE',font=(
 Bahnschrift', 12), bg='#B87C4C')
    note_desc_entry=tk.Text(entry_frame, height=4, width=25, bg='#FFF6E8')
    note_desc.grid(row=6, column=3, columnspan=5)
    note_desc_entry.grid(row=7, column=3, columnspan=5)
    check_status_var=tk.StringVar()
    check_button=tk.Checkbutton(entry_frame, text='Agree To Term And
Condition',font=( 'Bahnschrift', 12), variable=check_status_var,
onvalue='Accept' , offvalue='Decline', bg='#B87C4C')
    check_button.grid(row=8, column=0, sticky='ew', columnspan=2)
#button
    button=tk.Button(entry_frame, text='Enter Data', pady=5, bg='#D17C30',
font=( 'Bahnschrift'), width=21 , command= enter_data )
    button.grid(row=8, column=3,columnspan=5 )
    entry_data=tk.Listbox(entry_frame, height=10, width=82, bg='#FFF6E8')
    entry_data.grid(row=9, column=0, columnspan=5, )
    update_entry_data()
    edit=tk.Button(entry_frame, text='Edit', width=21, bg='#D17C30', command=
update)
    edit.grid(row=10, column=0, columnspan=3)
    delete=tk.Button(entry_frame, text='Delete', width=21, bg='#D17C30',
command= deleting)
    delete.grid(row=10, column=3, columnspan=5)
    for widget in entry_frame.winfo_children():
        widget.grid_configure(padx=10, pady=5)
        button.grid_configure(padx=30, pady=30)
    registration_window.mainloop()
def open_room_list():
```

```
list window= Toplevel(root)
    list window.title('Room List')
    list window.geometry('800x600')
    title = tk.Label(list_window, text='ROOM LIST', font=('times new roman',
40))
    title.pack()
# Frame for Listbox
    box = tk.Frame(list_window)
    box.pack()
# Listbox
    room_list = tk.Listbox(box, width=100, height=10, selectmode=tk.EXTENDED,
fg='black', font=('times new roman', 12, 'bold'),bd=5,relief="sunken")
    room list.pack()
    # Sample room entries
    room_list.insert(tk.END, "Choice Of Room and Price\n\n")
    room_list.insert(tk.END, "Room A: 2 Single be,d \nAdd-on Requirements:
Stand Fan, Bookshelves, Iron Board, \nPrice: RM 140\n\n")
    room_list.insert(tk.END, "Room B: 1 Queen bed, \nAdd-on Requirements:
Stand Fan, Bookshelves, Iron Board, \nPrice: RM 200\n\n")
    room_list.insert(tk.END, "Room C: 1 Queen bed, 1 Single bed, \nAdd-on
Reguirements: Stand Fan, Bookshelves, Iron Board, \nPrice: RM 300\n\n")
    room_list.configure(state='disable')
    room_list = tk.Listbox(box, width=50, height=5, selectmode=tk.EXTENDED,
fg='black', font=('times new roman', 12, 'bold'),bd=4,relief="groove")
    room_list.pack()
    room_list.insert(tk.END, "Types Of Requirements and Price\n\n")
    room_list.insert(tk.END, "Stand Fan \nPrice: RM 30\n\n")
    room_list.insert(tk.END, "Bookshelves \nPrice: RM 30\n\n")
    room_list.insert(tk.END, "Iron Board \nPrice: RM 10\n\n")
    room_list.configure(state='disable')
    list window.mainloop()
#payment databse
def open payment():
    payment window = Toplevel(root)
```

```
payment_window.title("Payment")
    payment window.geometry("800x500")
     #CONNECT TO MYSQL DATABASE
    mydb = mysql.connector.connect(
        host="localhost",
        user="root",
        password="",
        database="room rental"
    )
    mycursor = mydb.cursor()
    def collect data():
        Payment Method = Payment Method combobox.get()
        Room_Selection = Room_Selection_combobox.get()
        Add_On_Requirements = Add_On_Requirements_combobox.get()
        Types_Of_Requirements = Types_Of_Requirements_combobox.get()
        Price_Per_Room = {
            "Room A": 140,
            "Room B": 200,
            "Room C": 380,
        }
        Types_Of_Requirements_Price = {
            "Stand Fan": 30,
            "Bookshelves": 50,
            "Iron Board": 10,
        }
        # Default price if the type is not found
        Rent_Total_Price = 0
        # Check different cases using if, elif, and else
        if Types_Of_Requirements == "Stand Fan":
            Rent_Total_Price = Price_Per_Room[Room_Selection] +
int(Types_Of_Requirements_Price["Stand Fan"])
        elif Types_Of_Requirements == "Bookshelves":
            Rent Total Price = Price Per Room[Room Selection] +
int(Types_Of_Requirements_Price["Bookshelves"])
        elif Types Of Requirements == "Iron Board":
            Rent_Total_Price = Price_Per_Room[Room_Selection] +
int(Types_Of_Requirements_Price["Iron Board"])
```

```
else:
            Rent Total Price = Price Per Room[Room Selection]
        # TO INSERT DATA TO DATABASE
        sql = "INSERT INTO payment detail (Payment Method, Room Selection,
Add_On_Requirements, Types_Of_Requirements , Rent_Total_Price) VALUES (%s, %s,
%s,%s,%s)"
        val = (Payment_Method, Room_Selection, Add_On_Requirements,
Types Of Requirements, Rent Total Price)
        mycursor.execute(sql, val)
       mydb.commit()
        # Displaying the collected data
        output_label.configure(text=f"Payment_Method: {Payment_Method},
Room Selection: {Room Selection}, Add On Requirements: {Add On Requirements},
Type Of Requirements:{Types Of Requirements Price} Rent Total Price:
RM{Rent Total Price}")
   # GUI Interface
   payment_window.configure(bg="#AFC1D0")
    frame = tk.Frame(payment window)
    frame.pack()
    label = tk.Label(payment_window, text="PAYMENT DETAIL", font=("Segoe")
Script", 15, "bold"),bg="#C3E0E5",bd=4,relief="groove")
    label.pack(ipadx=10, ipady=20, fill='x', )
    frame = tk.Frame(payment_window, bg='#AFC1D0')
    frame.pack()
    # Saving customer payment
    Customer_payment_detail_frame = tk.LabelFrame(frame, text="RENTAL
PAYMENT", font=("Bahnschrift SemiLight
Condensed",20),bg="#AFC1D0",bd=3,relief="solid", )
    Customer_payment_detail_frame.grid(row=0, column=0, pady=30)
    Payment_Method_label = tk.Label(Customer_payment_detail_frame,
text="Payment Method",font=("Bahnschrift SemiLight
Condensed",20),bg="#AFC1D0",bd=3,relief="ridge")
    Payment_Method_combobox = ttk.Combobox(Customer_payment_detail_frame,
values=["Debit/Credit Card", "Cash"])
    Payment_Method_label.grid(row=6, column=0)
    Payment_Method_combobox.grid(row=6, column=4)
    for widget in Customer_payment_detail_frame.winfo_children():
        widget.grid configure(padx=15, pady=10)
```

```
Customer payment detail frame = tk.LabelFrame(frame, text="SELECTION AND
ADD-ON", font=("Bahnschrift SemiLight Condensed",20
),bg="#AFC1D0",bd=3,relief="solid")
    Customer payment detail frame.grid(row=10, column=0)
    Room_Selection_label = tk.Label(Customer_payment_detail_frame,
text="Select Your Room",font=("Bahnschrift SemiLight
Condensed",20),bg="#AFC1D0",bd=3,relief="ridge")
    Room_Selection_combobox = ttk.Combobox(Customer_payment_detail_frame,
values=["Room A", "Room B", "Room C"])
    Room Selection label.grid(row=12, column=0)
    Room_Selection_combobox.grid(row=12, column=4)
    Add On Requirements label = tk.Label(Customer payment detail frame,
text="Add-on Requirements", font=("Bahnschrift SemiLight Condensed",
20),bg="#AFC1D0",bd=3,relief="ridge")
    Add_On_Requirements_combobox = ttk.Combobox(Customer_payment_detail_frame,
values=["Yes", "No"])
    Add_On_Requirements_label.grid(row=14, column=0)
    Add_On_Requirements_combobox.grid(row=14, column=4)
    Types_Of_Requirements_label = tk.Label(Customer_payment_detail frame,
text="Select Requirements",font=("Bahnschrift SemiLight
Condensed", 20), bg="#AFC1D0", bd=3, relief="ridge")
    Types_Of_Requirements_combobox =
ttk.Combobox(Customer_payment_detail_frame, values=["Stand Fan",
"Bookshelves", "Iron Board"])
    Types_Of_Requirements_label.grid(row=16, column=0)
    Types_Of_Requirements_combobox.grid(row=16, column=4)
    for widget in Customer_payment_detail_frame.winfo_children():
        widget.grid_configure(padx=15, pady=10)
    frame1=tk.Frame(payment_window, bg='#C3E0E5')
    frame1.pack(fill='both')
    # Calculate button
    Total_button = tk.Button(frame1, text="Calculate
Total!",bg="#C3E0E5",bd=3,relief="raised", command=collect_data)
    Total button.pack(pady=15)
    label = tk.Label(frame1, text='Rental Total Price', font=("Courier New",
15, "underline", "bold"), bg="#C3E0E5", bd=3, relief="groove")
    label.pack(ipadx=10, ipady=10)
    output_label = tk.Label(payment_window, text="",font=("MV
Boli",10),bg="#D4F1F4",bd=5,relief="sunken")
   output label.pack()
```

```
payment window.mainloop()
def register_action():
    print("Registration Button Clicked")
def payment_action():
    print("Payment Button Clicked")
root = Tk()
root.title('Room Rental')
root.geometry('1198x600')
header = Frame(root)
header.pack()
title = Label(header, text='Rent
                               \nRoom.
font=('Valoon', 25, ))
title.pack(side='left', padx=120)
about = Button(header, text='About', width=10, bg='#F6F2CB', font=('times new
roman', 10, 'bold'), command=open_about)
about.pack(side='left')
registration_button = Button(header, text='Registration', width=10,
bg='WHITE', font=('times new roman', 10, 'bold'), command=open_registration)
registration_button.pack(side='left', padx=50)
list_button = Button(header, text='Room List', width=10, bg='#F6F2CB',
font=('times new roman', 10, 'bold'), command=open_room_list)
list_button.pack(side='left')
payment_button = Button(header, text='Payment', width=10, bg='WHITE',
font=('times new roman', 10, 'bold'), command=open_payment)
payment_button.pack(side='right', padx=50)
mid = Frame(root, bg='#FFFFFF')
mid.pack()
welcome = Label(mid, text='WELCOME TO', font=('times new roman', 30, 'bold',
'underline'), bg='#FFFFFF')
welcome.pack()
name = Label(mid, text='Rent A\nRoom.', font=('valoon', 25), bg='#FFFFFF')
name.pack()
```

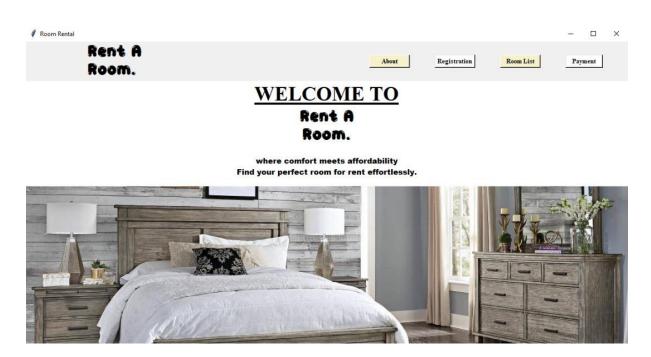
```
desc = Label(mid, text='where comfort meets affordability\nFind your perfect
room for rent effortlessly.', font=('arial black', 11), bg='#FFFFFF')
desc.pack(pady=15)

img = ImageTk.PhotoImage(Image.open("8d425aa19f74daa5d1663e936adc.jpeg"))
photo = Label(mid, image=img)
photo.pack()

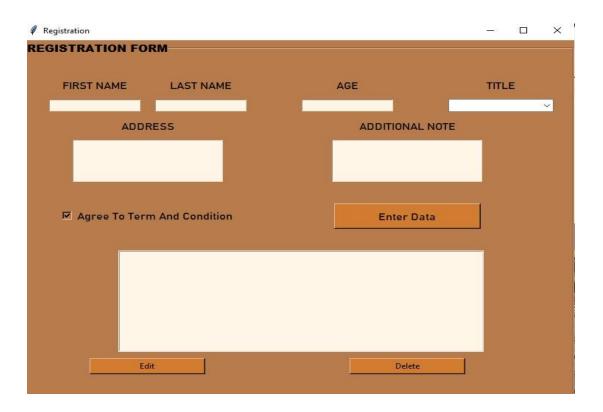
root.mainloop()
```

6.0 GUI FOR ROOM RENTAL SYSTEM

6.1 Main Interface



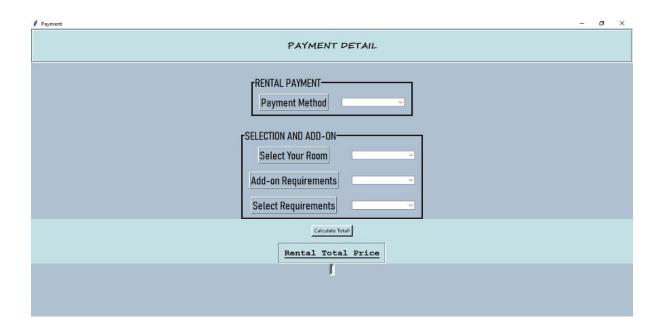
6.2 Registration GUI



6.3 Room List



6.4 Payment Detail



6.5 About GUI



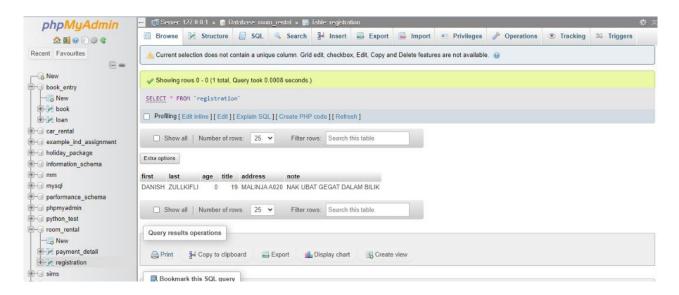


RENT A ROOM. your hassle-free solution for affordable and comfortable room rentals. We specialize in simplifying your accommodation search, offering a diverse range of options for travelers, students, and professionals. Our mission is to prioritize your comfort and provide a seamless renting experience. Choose Rent A Room for easy and affordable living solutions. Your ideal room is just a click away!

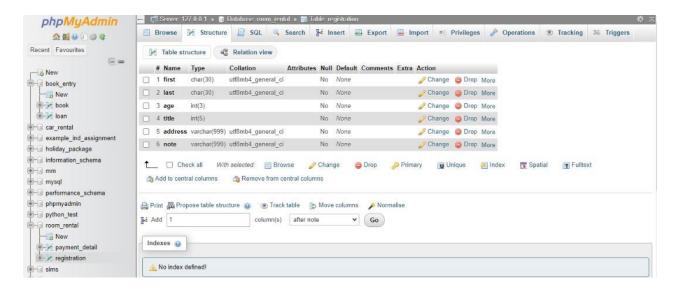
7.0 DATABASE FOR ROOM RENTAL SYSTEM

7.1 REGISTRATION TABLE

7.1.1 Registration Browse

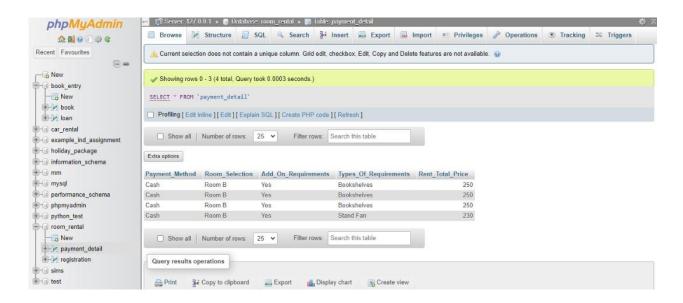


7.1.2 Registration Structure

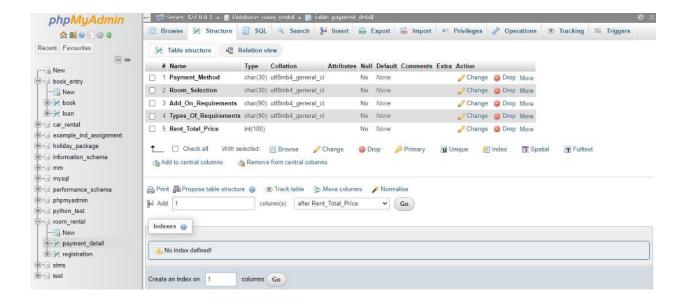


7.2 PAYMENT DETAIL TABLE

7.2.1 Payment Detail Browse



7.2.2 Database Structure For Payment Detail



8.0 CONCLUSION

In conclusion, the Room Rental System represents a significant step forward in addressing the challenges associated with renting individual rooms within a property. By providing a comprehensive and user-friendly platform, this system aims to transform the room rental experience for both landlords and tenants. Through the incorporation of key features, such as centralized property management, streamlined booking procedures, and transparent communication channels, the Room Rental System seeks to enhance efficiency and foster trust in the rental process.

The system's commitment to clear pricing and policies, along with secure payment processing, addresses common pain points related to transparency and financial transactions. By offering tools for tenant screening, maintenance issue resolution, and legal compliance, the platform aims to create a secure and well-managed living environment for all parties involved. Furthermore, the Room Rental System recognizes the importance of data-driven decision-making and provides landlords with reporting and analytics tools. This empowers property owners to gain insights into property performance, occupancy rates, and financial metrics, enabling informed decision-making for property optimization.

In essence, the Room Rental System strives to simplify and streamline the room rental experience, making it more accessible, secure, and efficient. By doing so, the platform seeks to foster positive relationships between landlords and tenants, ultimately contributing to a more harmonious and successful room rental ecosystem. As the system continues to evolve and adapt to the changing needs of the rental market, it stands as a promising solution to the challenges faced by both property owners and tenants in the realm of room rentals.

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