UNIVERSITI TEKNOLOGI MARA (UITM)

CAWANGAN KEDAH KAMPUS SUNGAI PETANI

COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS

DIPLOMA IN LIBRARY INFORMATICS

(CDIM144 3B)

PROGRAMMING FOR LIBRARIES

(IML208)

INDIVIDUAL PROJECT

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PREPARED FOR:

ENCIK MOHD FIRDAUS MOHD HELMI

SUBMISSION WEEK:

WEEK 10

ASSIGNMENT 1:

INDIVIDUAL PROJECT

NAME: NURUL NAJWA BINTI PIHER

ID: 2023888548

CLASS: KCDIM144 3B

DIPLOMA IN LIBRARY INFORMATICS
FACULTY OF INFORMATION MANAGEMENT
UNIVERSITI TEKNOLOGI MARA (UITM) CAWANGAN KEDAH
WEEK 10

ACKNOWLEDGEMENT

Assalamualaikum w.b.t

Alhamdulillah, I would like to thank God for giving me the strength to complete the assignment smoothly. And because of his grace, I am encouraged to continue the assignment until I succeed.

I, as a part of the students from Library Informatics wants to convey my sincere gratitude to Encik Mohd Firdaus Mohd Helmi my lecturer for his undivided attention and infinite help in completing this assignment. Without his guidance, I could not even finish this assignment completely all by myself. Furthermore, with this given assignment, I could explore the various functions and sites of online library services even better. With this knowledge, it is easier for me to gain much access for the purpose of completing many more assignments ahead.

Apart from that, I would like to thank all my beloved classmates for helping me without any hesitation throughout this assignment. Their help in answering the questions in the group chat truly gives clarity to all my doubts and issues.

Last but not least, I would like to thank my family for their continuous support until I accomplish this assignment. With their support and motivation, I am determined to not give up halfway and finish this assignment easily.

Sincerely,

NAME: NURUL NAJWA BINTI PIHER
ID: 2023888548
CLASS: KCDIM144 3B

STUDENT PLEDGE OF ACADEMIC INTEGRITY

As a student of Universiti Teknologi MARA (UiTM), it is my responsibility to act in accordance with UiTM's academic assessment and evaluation policy. I hereby pledge to act and uphold academic integrity and pursue scholarly activities in UiTM with honesty and responsible manner. I will not engage or tolerate acts of academic dishonesty, academic misconduct, or academic fraud including but not limited to:

a. **Cheating:** Using or attempt to use any unauthorized device, assistance, sources, practice or materials while completing academic assessments. This include but not limited to copying from another, allowing others to copy, unauthorized collaboration on an assignment or open book tests, or engaging in any act or conduct that can be construed as cheating.
b. **Plagiarism:** Using or attempts to use the work of others (ideas, design, words, art, music, etc.) without acknowledging the source; using or purchasing materials prepared by another person or agency or engaging in other behavior that a reasonable person would consider as plagiarism.
c. **Fabrication:** Falsifying data, information, or citations in any academic assessment and evaluation.
d. **Deception:** Providing false information with intend to deceive an instructor concerning any academic assessment and evaluation.
e. **Furnishing false information:** Providing false information or false representation to any UiTM official, instructor, or office.

With this pledge, I am fully aware that I am obliged to conduct myself with utmost honesty and integrity. I fully understand that a disciplinary action can be taken against me if I, in any manner, violate this pledge.

Name: NURUL NAJWA BINTI PIHER
Matric Number: 2023888548
Course Code: IML208
Programme code: KCDIM144
Faculty / Campus: COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS
*Students are required to sign one pledge for each course taken.

TABLE OF CONTENT

1.0 PROJECT NAME, FILE NAME AND PROMPT DATA

Project Name: Event Booking System

File name: eventbooking.py

Prompt Data:

i. Event name:
Glow in the dark

ii. Event date:
12/12/2024

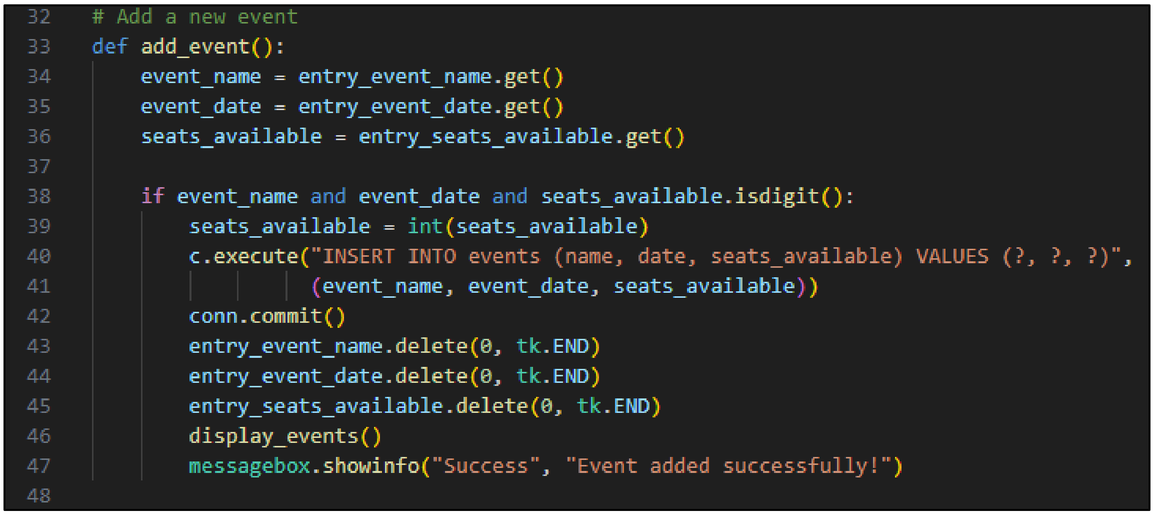
iii. Seats available:
100

iv. User name:
Miss Anna

v. Seats to book:
5

2.0 FUNCTION

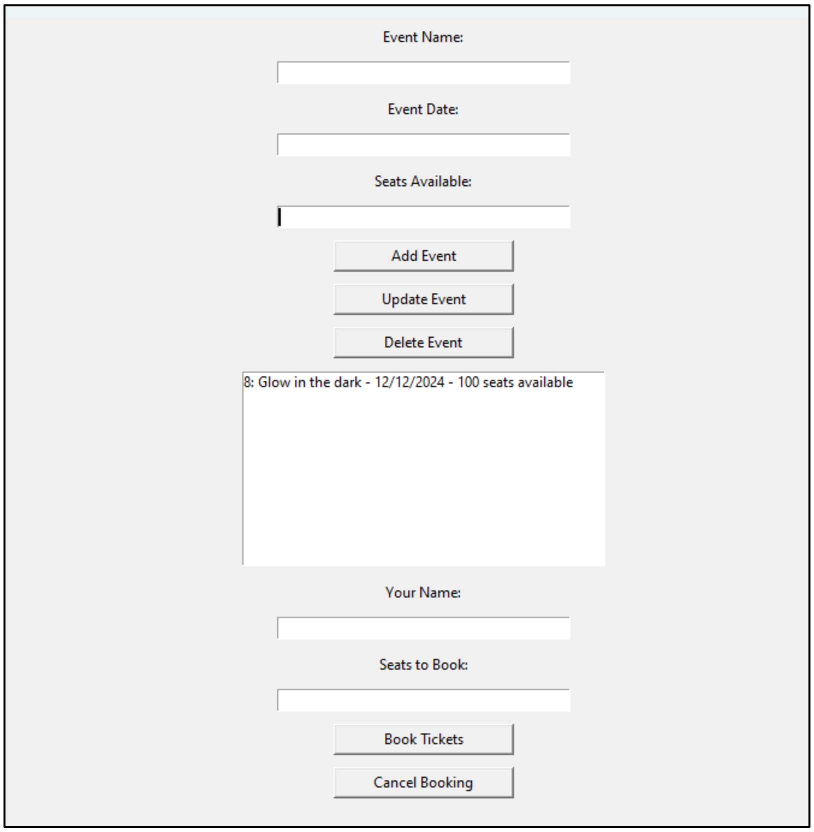
i. Create data



```
# Add a new event
def add_event():
    event_name = entry_event_name.get()
    event_date = entry_event_date.get()
    seats_available = entry_seats_available.get()

    if event_name and event_date and seats_available.isdigit():
        seats_available = int(seats_available)
        c.execute("INSERT INTO events (name, date, seats_available) VALUES (?, ?, ?)",
                  (event_name, event_date, seats_available))
        conn.commit()
        entry_event_name.delete(0, tk.END)
        entry_event_date.delete(0, tk.END)
        entry_seats_available.delete(0, tk.END)
        display_events()
        messagebox.showinfo("Success", "Event added successfully!")
```

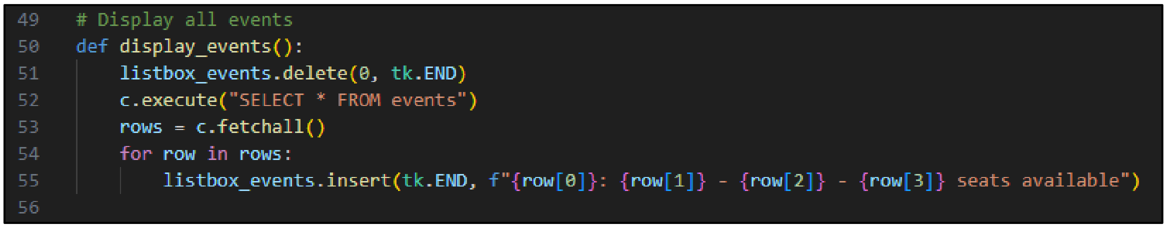
Figure 1: Coding to create a data



8: Glow in the dark - 12/12/2024 - 100 seats available

Figure 2: Event has been created

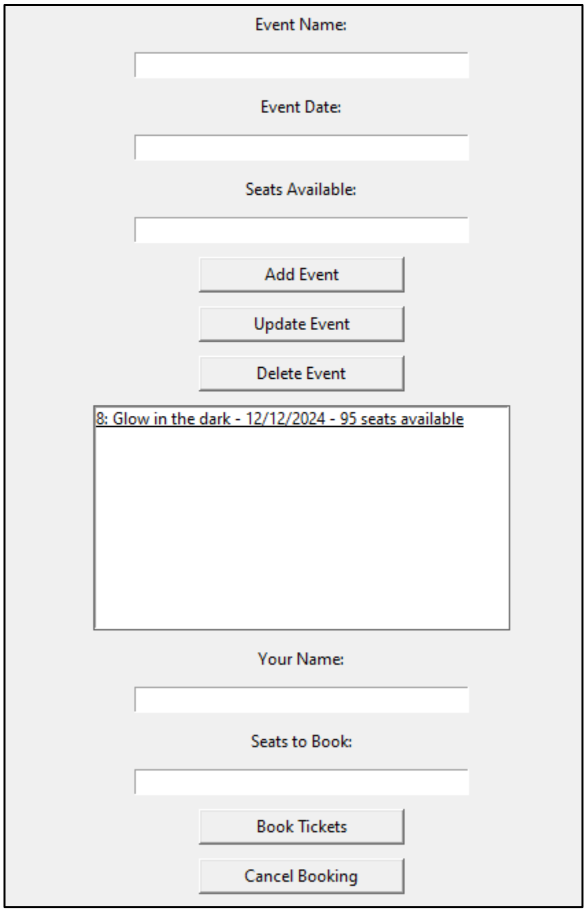
ii. Read data



```
# Display all events
def display_events():
    listbox_events.delete(0, tk.END)
    c.execute("SELECT * FROM events")
    rows = c.fetchall()
    for row in rows:
        listbox_events.insert(tk.END, f"{row[0]}: {row[1]} - {row[2]} - {row[3]} seats available")

```

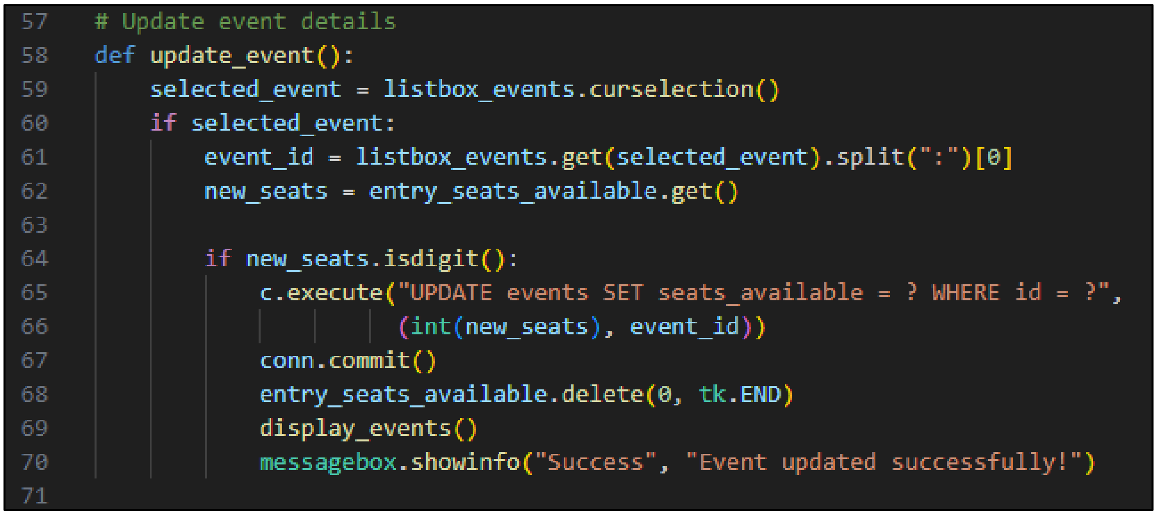
Figure 3: Coding to display event



8: Glow in the dark - 12/12/2024 - 95 seats available

Figure 4: Event is displayed

iii. Update data

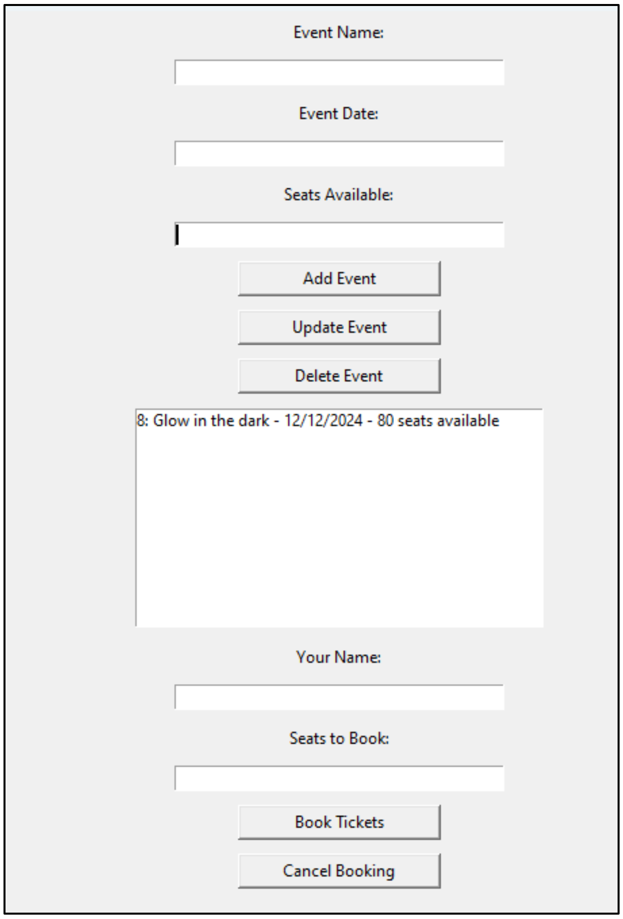


```python
# Update event details
def update_event():
    selected_event = listbox_events.curselection()
    if selected_event:
        event_id = listbox_events.get(selected_event).split(":")[0]
        new_seats = entry_seats_available.get()

        if new_seats.isdigit():
            c.execute("UPDATE events SET seats_available = ? WHERE id = ?",
                      (int(new_seats), event_id))
            conn.commit()
            entry_seats_available.delete(0, tk.END)
            display_events()
            messagebox.showinfo("Success", "Event updated successfully!")

```

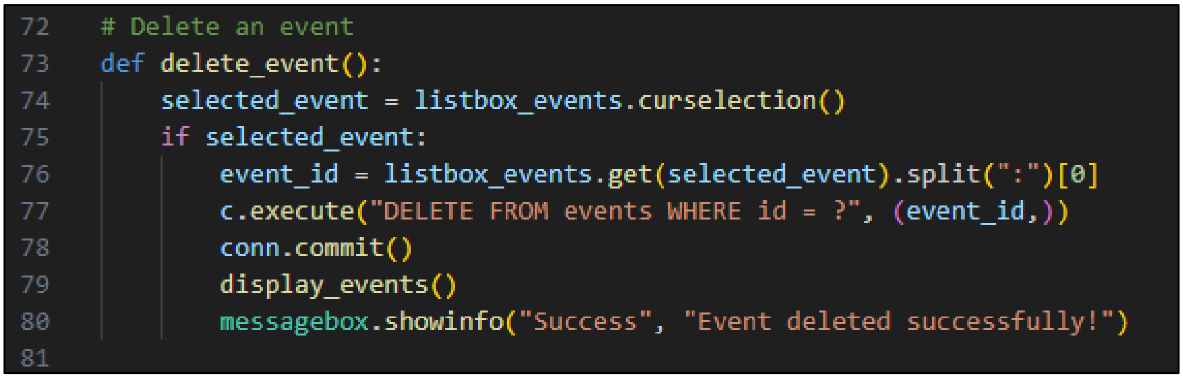
Figure 5: Coding to update data



8: Glow in the dark - 12/12/2024 - 80 seats available

Figure 6: Seats available have been updated

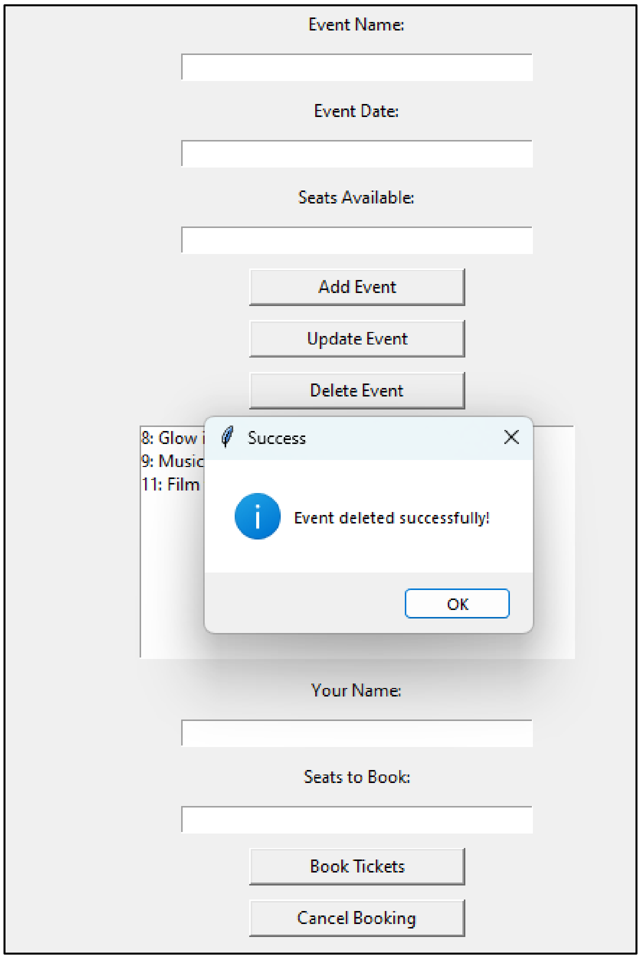
iv. Delete existing data



```python
# Delete an event
def delete_event():
    selected_event = listbox_events.curselection()
    if selected_event:
        event_id = listbox_events.get(selected_event).split(":")[0]
        c.execute("DELETE FROM events WHERE id = ?", (event_id,))
        conn.commit()
        display_events()
        messagebox.showinfo("Success", "Event deleted successfully!")

```

Figure 7: Coding to delete existing data



Event deleted successfully!

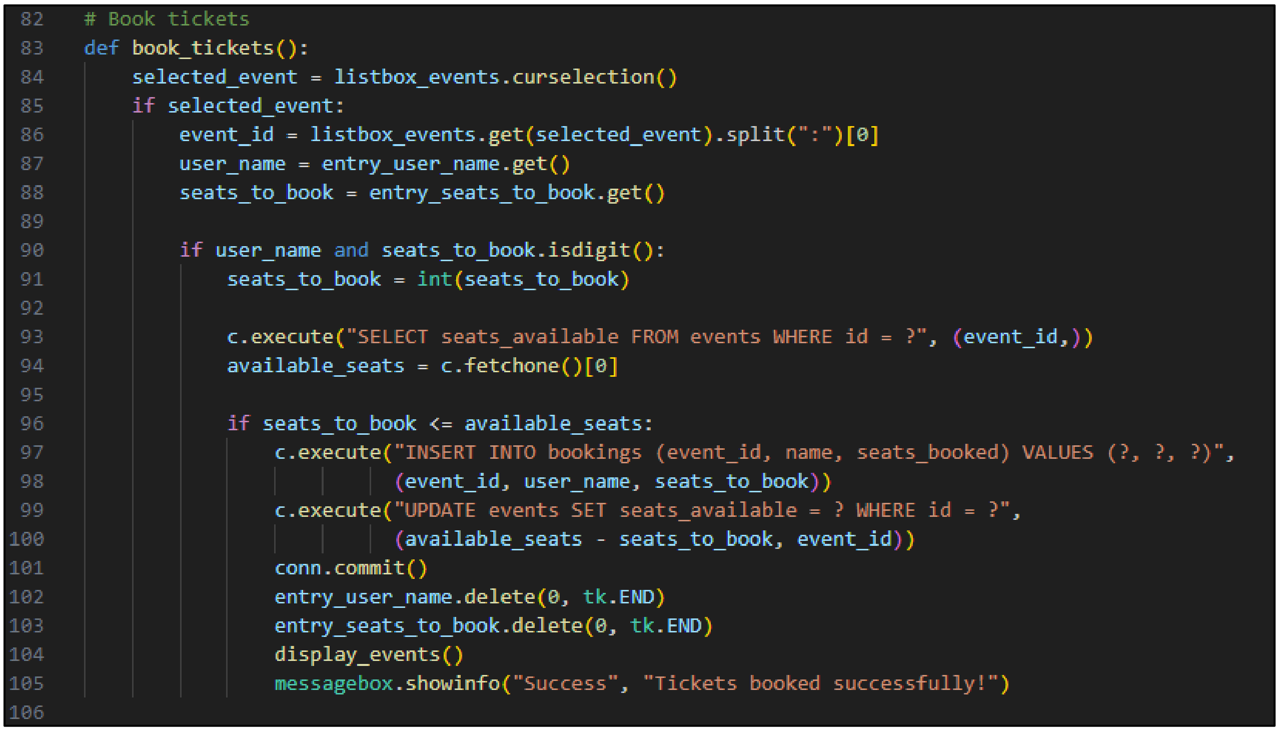
Figure 8: An event has been deleted

3.0 CONDITIONAL STATEMENT

Conditional statement: Yes.

The "if" statement in this code is important to ensure that specific requirements are met before performing an operation such as booking a ticket.

1) The first "if": Ensures that the event has been selected before attempting to purchase a ticket.
2) Second "if": Verify that the user put the seat number and real name.
3) The third "if": Verify that there are enough seats before completing the reservation.



```python
# Book tickets
def book_tickets():
    selected_event = listbox_events.curselection()
    if selected_event:
        event_id = listbox_events.get(selected_event).split(":")[0]
        user_name = entry_user_name.get()
        seats_to_book = entry_seats_to_book.get()

        if user_name and seats_to_book.isdigit():
            seats_to_book = int(seats_to_book)

            c.execute("SELECT seats_available FROM events WHERE id = ?", (event_id,))
            available_seats = c.fetchone()[0]

            if seats_to_book <= available_seats:
                c.execute("INSERT INTO bookings (event_id, name, seats_booked) VALUES (?, ?, ?)",
                          (event_id, user_name, seats_to_book))
                c.execute("UPDATE events SET seats_available = ? WHERE id = ?",
                          (available_seats - seats_to_book, event_id))
                conn.commit()
                entry_user_name.delete(0, tk.END)
                entry_seats_to_book.delete(0, tk.END)
                display_events()
                messagebox.showinfo("Success", "Tickets booked successfully!")

```

Figure 9: Coding to book a tickets

4.0 GUI

Yes

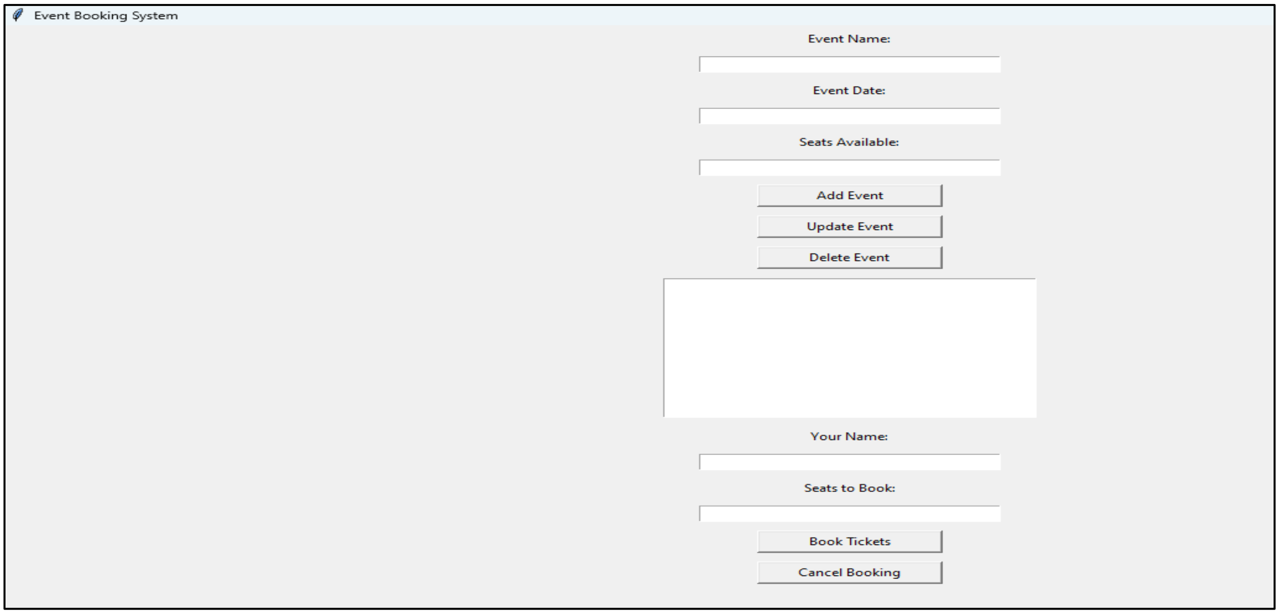
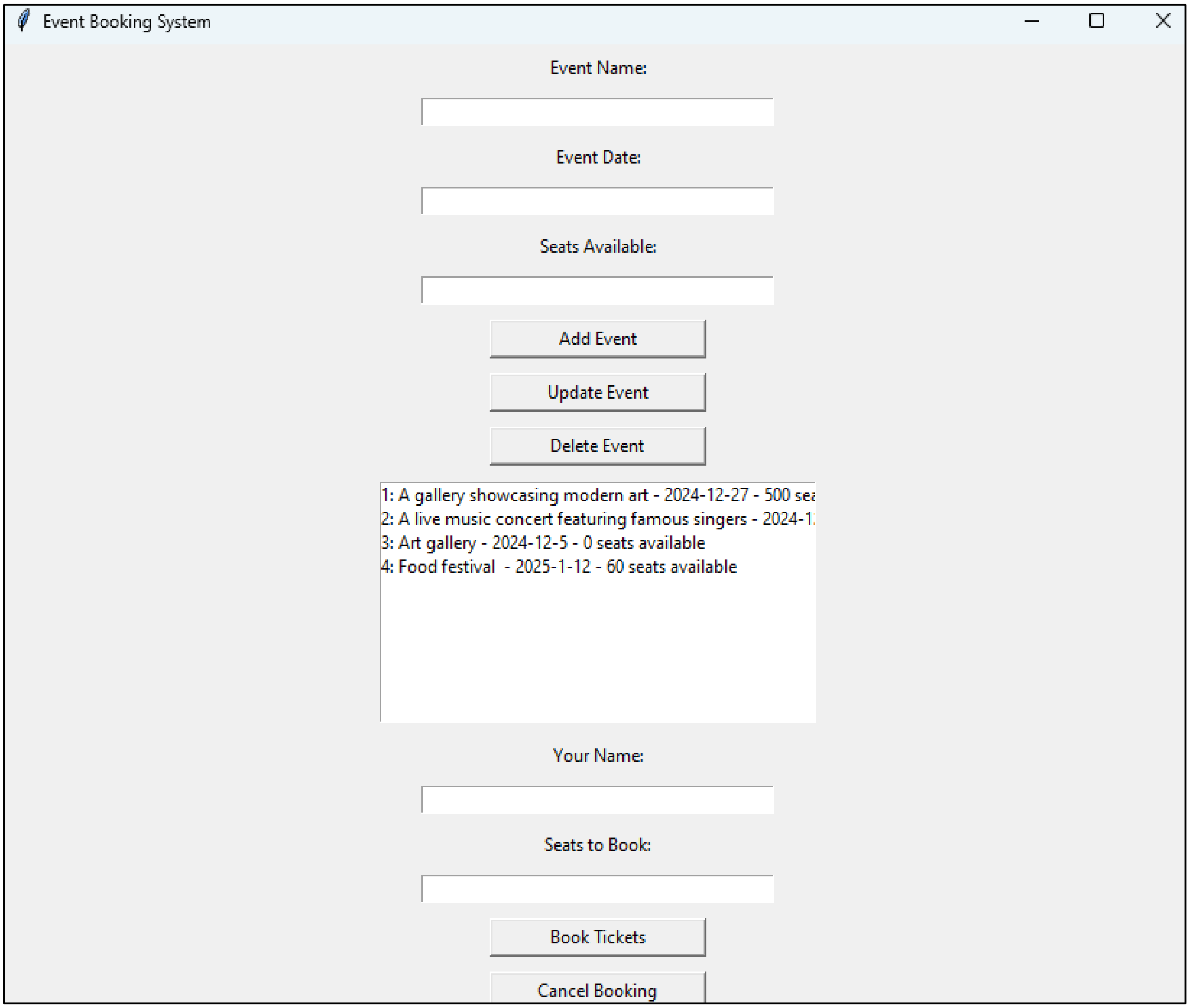


Figure 10: GUI of Event Booking System

5.0 RESULT



```
1: A gallery showcasing modern art - 2024-12-27 - 500 sea
2: A live music concert featuring famous singers - 2024-1
3: Art gallery - 2024-12-5 - 0 seats available
4: Food festival  - 2025-1-12 - 60 seats available
```

Figure 11: Result of Event Booking System

6.0 STRENGTH

Easier management

It is said to have easier management because this system acts as a center where event organizers can manage all event elements such as budget, schedule, speakers, venue, registration payment, reporting and so on. This event booking system also helps event managers keep track of all event elements to ensure that the event to be held runs smoothly. As a result, organizing events becomes easier by using this system than managing them manually.

Saves time

Event organizers can save their time by using an event booking system when they want to host an event. This is because this software allows event organizers to coordinate all processes starting from registration tracking to booking, payment processing and further email monitoring. In addition, it helps to ensure that event organizers are satisfied with the organized event as it can provide a great experience to the attendees and guests of the event while also getting a positive return on investment.

Cuts cost

This system also helps organizers reduce budget costs. It helps track expenses and analyze them based on the event budget with a user-friendly interface and reporting that allows event organizers to visualize them to achieve maximum return on investment. As a result, by using an event management platform, organizers can always see where or when money comes in and out of the project.

Improves data collection

The system uses data protection to manage personal data to ensure that each event organizer complies with current regulations. It further simplifies and streamlines the process by keeping multiple logs of participant details and preferences. For example, customers who have booked tickets and who have paid for their tickets. As a result, it makes it easy to capture leads during events with badge scanning to allow personalized email delivery using segmented email lists.

7.0 KAIZEN (ROOM FOR IMPROVEMENT)

Ensure secure payment processing

To increase the improvement of the event booking system, the online event booking system needs to offer secure payment processing. This is because it is important to increase online bookings and provide a positive customer experience when payment is made. For example, displaying any relevant badges and security systems. As a result, customers will not hesitate to make any bookings and subsequently increase ticket sales.

Conversion-Optimized

Conversion optimization can be done by including clear and attractive reservations throughout the website. Next, show the value of your place by showing what's included. In addition, the system can be improved with offers special offers and promotions. Event organizers can also display booking benefits on your platform such as refund policies and finally add additional information that customers want to know before booking. This is done to attract customers to book in your event booking system.

Use efficient booking software

Use efficient booking software by setting up a booking engine that allows you to take event bookings and ensure that the software can play a role in how you shape the customer journey. This is to launch their journey. In addition, the booking solution should also provide a convenient experience for customers by giving them access to all the information needed to book a place quickly. As a result, it provides access to a variety of event planning tools to improve the event management process and facilitate online booking for all customers.

Set up automated reminders

Event booking systems can be improved by using event automation. The software will send automatic event reminders to customers. The purpose is to remind customers that their event date is coming up or to give them an incentive to make the next payment installment. As a result, it helps the system become more organized.

REFERENCE

How to create a better event booking experience for your venue. (2023, February 27). perfect venue. Retrieved December 6, 2024, from https://www.perfectvenue.com/post/event-bookings-experience

Royal, N. (2023, January 09). 6 benefits of event management platforms. Run.events. https://run.events/blog/benefits-of-event-management-platforms/