



UNIVERSITI TEKNOLOGI MARA  
(UiTM) KEDAH, KAMPUS SUNGAI PETANI

SCHOOL OF INFORMATION SCIENCE  
COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS

DIPLOMA IN LIBRARY INFORMATICS  
(CDIM144)  
PROGRAMMING FOR LIBRARY [IML208]

INDIVIDUAL PROJECT: MOVIE TICKET BOOKING SYSTEM

Prepared by:

SYAZRIATUL NATASYA BINTI SYAMSUL ZUBAIRI	2023855776
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GROUP: KCDIM1443E

Prepared for:

SIR MOHD FIRDAUS BIN MOHD HELMI

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**Name: SYAZRIATUL NATASYA BINTI SYAMSUL ZUBAIRI**

**Matric Number: 2023855776**

**Course Code: IML208**

**Programme Code: CDIM144**

**Faculty / Campus: UiTM Kampus Sungai Petani**

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## 1.0 INTRODUCTION

Project Name: Movie Ticket Booking System

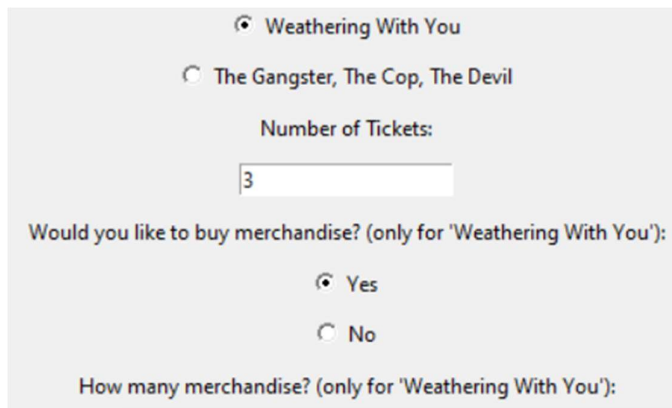
File name: Movie Ticket Booking System (GUI).py

Prompt Data:

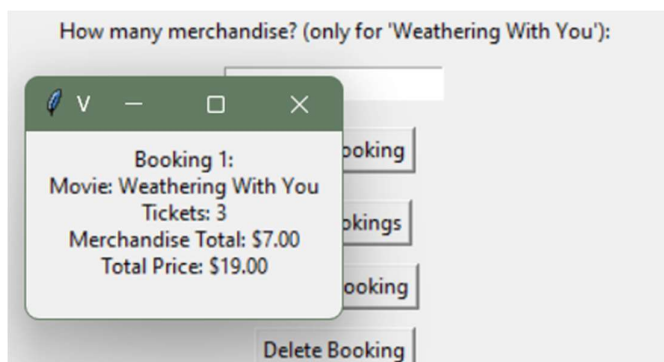
- i. Booking Selection
- ii. Number of Tickets
- iii. Merchandise Option (only for “Weathering with You”)
- iv. Updated Number of Tickets
- v. Updated Merchandise Option (if applicable)

FUNCTION:

- i. Create Data



- ii. Read data



- iii. Update data

The image shows two identical 'Update Booking' windows side-by-side. Each window has a title bar 'Upd...', a close button, and a maximize button. The main content area contains the following elements:

- Enter Booking Number to Update:** A text input field containing the number '1'.
- Confirm Booking Number:** A button.
- Updating 'Weathering With You'**
- Enter new number of tickets:** A text input field containing the number '3'.
- Enter new number of T-shirts:** A text input field containing the number '1'.
- Save Updates:** A button.

Below these windows is a dialog box titled 'How many merchandise? (only for 'Weathering With You'):' with a text input field. To the right of this dialog is a small window titled 'Booking 1:' showing the following details:

- Movie: Weathering With You
- Tickets: 4
- Merchandise Total: \$14.00
- Total Price: \$30.00

#### iv. Delete existing data

The image shows the 'Movie Ticket Booking System' window. It has a title bar with the text 'Movie Ticket Booking System' and standard window controls. The main content area displays 'Select Movie:' and a 'Success' message. Below the success message is a blue information icon and the text 'Booking for 'Weathering With You' deleted successfully!'. At the bottom of the window is an 'OK' button.

## 2.0 CONDITIONAL STATEMENT

```

7 #Function to create a new booking
8 def create_booking():
9     movie_choice = movie_var.get()
10    if movie_choice == 1:
11        movie_name = "Mufasa: The Lion King"
12        ticket_price = 4.90
13    elif movie_choice == 2:
14        movie_name = "Babah"
15        ticket_price = 4.50
16    elif movie_choice == 3:
17        movie_name = "Seventeen Right Here [Live Viewing]"
18        ticket_price = 33.00
19    elif movie_choice == 4:
20        movie_name = "Wicked"
21        ticket_price = 3.00
22    elif movie_choice == 5:
23        movie_name = "Weathering With You"
24        ticket_price = 4.00
25    elif movie_choice == 6:
26        movie_name = "The Gangster, The Cop, The Devil"
27        ticket_price = 6.50
28    else:
29        messagebox.showerror("Error", "Invalid movie choice!")
30    return

```

- If: The if statement is a conditional statement. It is used to execute a block of code only when a specific condition is met. For example, “movie\_choice == 1” the 1 are stand for the number of movie selection.
- Elif: Short for “else if” and is used when the first if statement isn’t true, but you want to check for another condition. If statements pair up with elif and else statements to perform a series of checks. When you run the code and input multiple ages, you can see which part of the if/elif/else block prints out.
- Else: The else keyword is used in conditional statements (if statements), and decides what to do if the condition is False. For example, when we enter the wrong booking number, it will show you an “Error, invalid movie choice!”.

The **if...else** statement is used to execute a block of code among two alternatives. However, if we need to make a choice between more than two alternatives, we use the **if...elif...else** statement.



3.0 GUI

Movie Ticket Booking System

Select Movie:

☒ Mufasa: The Lion King

☐ Babah

☐ Seventeen Right Here [Live Viewing]

☐ Wicked

☐ Weathering With You

☐ The Gangster, The Cop, The Devil

Number of Tickets:

Would you like to buy merchandise? (only for 'Weathering With You'):

☐ Yes

☒ No

How many merchandise? (only for 'Weathering With You'):

Create Booking

View Bookings

Update Booking

Delete Booking

Result:

Movie Ticket Booking System

Select Movie:

☐ Mufasa: The Lion King

☐ Babah

☒ Seventeen Right Here [Live Viewing]

☐ Wicked

☐ Weathering With You

☐ The Gangster, The Cop, The Devil

Number of Tickets:

Would you like to buy merchandise? (only for 'Weathering With You'):

☐ Yes

☒ No

How many merchandise? (only for 'Weathering With You'):

View All Booki...

Booking 1:  
Movie: Seventeen Right Here [Live Viewing]  
Tickets: 2  
Merchandise Total: \$0.00  
Total Price: \$66.00

Delete Booking

## 4.0 STRENGTH

The strengths of the Movie Ticket Booking System with GUI using Tkinter are as follows:

- User-Friendly Interface

The GUI (Graphical User Interface) makes the system easy to use for beginners and non-technical users. Buttons, input fields, and radio buttons make interactions intuitive and clear.

- Realistic Features

The special merchandise feature for “Weathering with You” demonstrates how conditional logic can be used to add unique options for specific movies. Total price calculations reflect real-world scenarios, including tickets and additional items.

- Error Handling

Users receive error messages for invalid inputs such as entering an invalid booking number or movie choice. Warnings are provided when no bookings exist for actions like update or delete.

- Simplicity

While the system is basic, it captures core booking functionalities without overwhelming the user. The logic is straightforward, making it an excellent starting point for beginners learning GUI programming and CRUD operations.

## 5.0 KAIZEN

The Kaizen (room for improvement) for the Movie Ticket Booking System with GUI using Tkinter includes the following:

- Improved UX/UI Design

The interface is functional but lacks visual appeal. It uses basic Tkinter widgets with default styling. The program need to add colors, fonts, and layout enhancements using Tkinter's styling options or integrate libraries like ttk or CustomTkinter for a modern UI.

- Add Advanced Booking Features

The program lacks some realistic features commonly found in booking systems such as seat selection that allow users to choose specific seats from an interactive grid, movie timings to add time slots for each movie and let users pick a Showtime and payment options to simulate payment methods such as cash and credit card for a more complete booking process.

- Notification System

Users have no reminders or confirmation messages outside of the program. So, the improvement should be adding an email or SMS notifications for confirmed bookings such as using APIs like Twilio for email and include a booking history feature that stores past transactions.