



SCHOOL OF INFORMATION SCIENCE,
COLLEGE OF COMPUTING, INFORMATICS AND MEDIA
UNIVERSITI TEKNOLOGI MARA (UITM)
CAWANGAN KEDAH

DIPLOMA IN LIBRARY INFORMATICS
(CDIM144)

PROGRAMMING FOR LIBRARIES
(IML208)

INDIVIDUAL ASSIGNMENT:
CINEMA BOOKING

BY:
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CLASS:
CDIM1443E

PREPARED FOR:
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SUBMISSION DATE:
4 JANUARY 2023

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First and foremost, I want to thank Allah for giving me the strength to finish this assignment. Honestly, it was hard to complete something once it started. It was difficult to do these assignments without the patience Allah was given.

Next, I thank my lecturer, Sir Airul Shazwan Bin Norshahimi, for providing complete guidance to finish this assignment. His kindness, patience, and willingness to generously give his time have been much appreciated. The process of completing these assignments becomes easy and smooth.

Other than that, I would like to thank my parents for being with me and motivating me to finish whatever I am starting. I am grateful for their love, prayers, understanding, and patience.

Finally, I want to take this opportunity to thank my friends for the reminder all this time. I will remember them and appreciate every one of them for their contribution.

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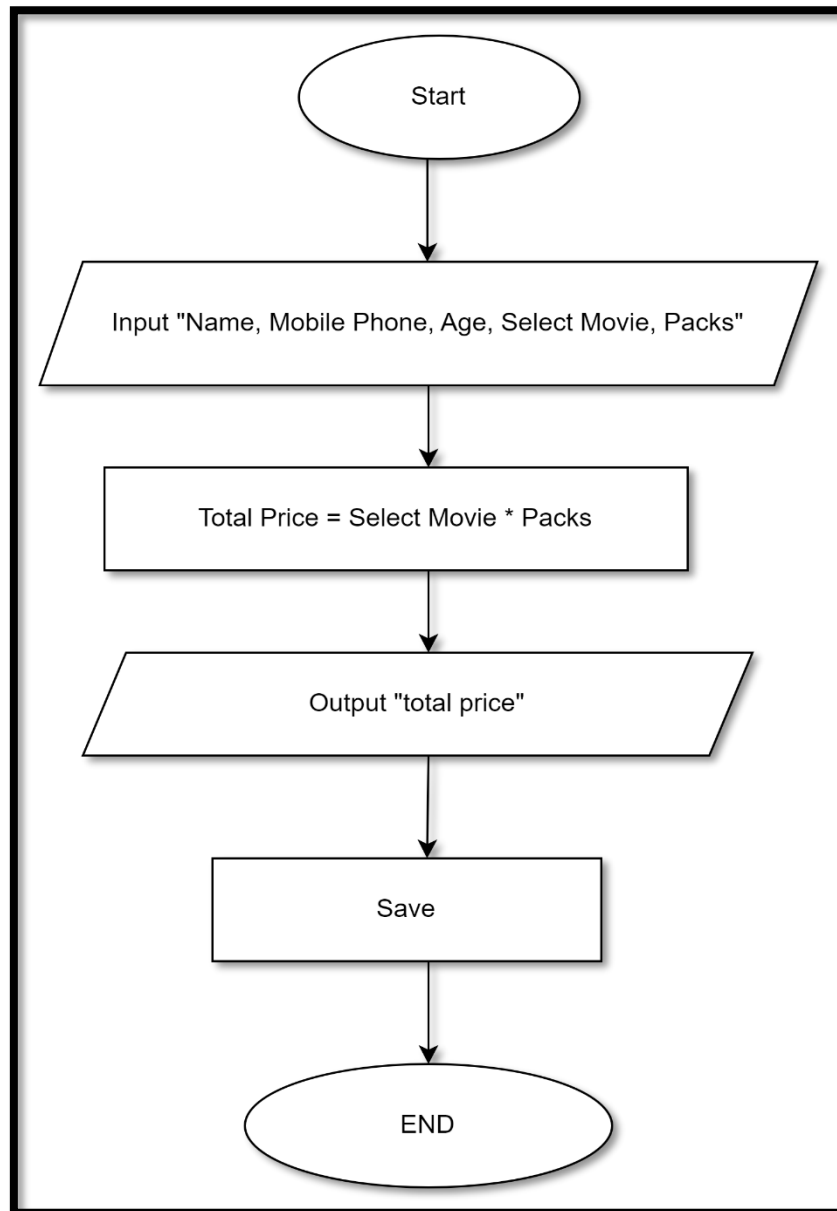
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1.0 INTRODUCTION

The topic that I have chosen is the Cinema booking system. Cinema booking systems allow customers to choose popular movies and purchase tickets by providing a user-friendly interface. This booking system is easy and can be accessed anywhere at any time. It is also can be used when the customer wants to book the movie and can spend time with anyone to enjoy the movie.

The cinema booking system will provide data on customers who should choose at least one movie to book a seat in the cinema. The customers should insert the information easily into the system to get the data of the customers. Firstly, insert the name of customers, mobile phone, and age. Next, choose one movie and fill in how many packs the customer wants. Moreover, the price will be shown to the customer which is the total of that movie. This can make it easy for customers to buy through this system and watch that movie.

2.0 FLOWCHART



3.0 SNAPSHOT OF THE CODE

```
Users > user > Documents > IML208 > customer_booking.py > collect_data
1 import tkinter as tk
2 import mysql.connector
3
4 # Connect to your MySQL database
5 mydb = mysql.connector.connect(
6     host="localhost",
7     user="root",
8     password="",
9     database="cinema_booking"
10 )
11
12 # Create a cursor object to execute SQL queries
13 mycursor = mydb.cursor()
14
15 # Function to handle the calculation and database saving
16 def collect_data():
17     Name = user_entry.get()
18     PhoneNumber = mobile_phone_entry.get()
19     Age = uage_entry.get()
20     Movie = movie_var.get()
21     packs = int(packs_entry.get())
```

```
3 # Movie prices
4 movie_prices = {
5     "MIGRATION": 15, # Replace with actual prices for each movie
6     "WISH": 16,
7     "WAR ON TERROR": 17,
8     "NIGHT HAS COMES": 25,
9 }
10
11 # Calculate the total price based on the selected movie price and packs
12 if Movie in movie_prices:
13     movie_price = movie_prices[Movie]
14     total_price = movie_price * packs
```

```
# Inserting data into the database
sql = "INSERT INTO customer_booking (Name, Phone_Number, Age, Movie, Packs, Total_Price) VALUES (%s, %s, %s, %s, %s, %s)"
val = (Name, PhoneNumber, Age, Movie, packs, total_price)
mycursor.execute(sql, val)
mydb.commit()

# Displaying the output
output_label.config(text=f"Name:\n{Name}, Phone Number:\n{PhoneNumber}, Age:\n{Age}, Selected Movie:\n{Movie}, Packs:\n{packs}, Total Price:\n RM{total_price}")
```

```

5 root = tk.Tk()
6 root.title("ZQ CINEMA")
7 root.geometry("1000x1000")
8 root.configure(bg="cyan")
9
10 # Page Title
11 label = tk.Label(root, text='~~~~ WELCOME TO ZQ CINEMA 3< ~~~', font=("Times New Roman", 28, "bold", ))
12 label.configure(bg="cyan")
13 label.pack(padx=10, pady=14)
14
15 # Movie List by using textbox
16 movie_text = tk.Text(root, height=10, width=40)
17 movie_text.pack(ipadx=20, ipady=10)
18
19 # The defined list by using moviebox
20 movie_text.insert(tk.END, "Movies & Prices:\n\n")
21 movie_text.insert(tk.END, "Movie 1: MIGRATION, RM15\n\n")
22 movie_text.insert(tk.END, "Movie 2: WISH, RM16\n\n")
23 movie_text.insert(tk.END, "Movie 3: WAR ON TERROR, RM17\n\n")
24 movie_text.insert(tk.END, "Movie 4: NIGHT HAS COMES , RM25\n\n")
25 movie_text.configure(bg="deep sky blue", fg="black", font=("Times New Roman", 14, "bold",))
26 movie_text.configure(state='disabled')
27

```

```

frame = tk.Frame(root, height=50, width=50)
frame.pack(padx=20, pady=20)

# Saving user info
insert_info_frame = tk.LabelFrame(frame, text="Insert Your Information\n\n")
insert_info_frame.grid(row=0, column=0, sticky="News", ipadx=28, ipady=28)
insert_info_frame.configure(bg="deep sky blue", fg="dark blue", font=("Arial", 20, "bold"))

# User Entry. Label and user can insert data thru entry
user_label = tk.Label(insert_info_frame, text="Name :\n")
user_label.grid(row=0, column=0)
user_label.configure(bg="deep sky blue", fg="purple", font=("Arial", 12, "bold"))
user_entry = tk.Entry(insert_info_frame)
user_entry.grid(row=0, column=1)

# MP Entry. Label and user can insert data thru entry
mobile_phone_label = tk.Label(insert_info_frame, text="Mobile Phone :\n")
mobile_phone_label.grid(row=2, column=0)
mobile_phone_label.configure(bg="deep sky blue", fg="purple", font=("Arial", 12, "bold"))
mobile_phone_entry = tk.Entry(insert_info_frame)
mobile_phone_entry.grid(row=2, column=1)

# Label and user can insert data thru entry
user_age_label = tk.Label(insert_info_frame, text="Age :\n")
user_age_label.grid(row=4, column=0)
user_age_label.configure(bg="deep sky blue", fg="purple", font=("Arial", 12, "bold"))
uage_entry = tk.Entry(insert_info_frame)
uage_entry.grid(row=4, column=1)

```



```

0
9 #movie
0 movie=tk.Label(insert_info_frame, text="Movie :")
1 movie.grid(row=7, column=0)
2 movie.configure(bg="deep sky blue", fg="purple", font=("Arial", 12, "bold"))
3
4 # Movie Title Type
5 movie_var = tk.StringVar(insert_info_frame)
6 movie_var.set("Select Your Movie") # Default value before your selection
7 trip_dropdown = tk.OptionMenu(insert_info_frame, movie_var, "MIGRATION", "WISH", "WAR ON TERROR", "NIGHT HAS COMES")
8 trip_dropdown.grid(row=7, column=1)
9 trip_dropdown.configure(bg="blue", fg="violet", font=("Arial", 12, "bold"))
0
1 # Packs Entry. Label and user can insert data thru entry
2 packs_label = tk.Label(insert_info_frame, text="Packs:")
3 packs_label.grid(row=14, column=0)
4 packs_label.configure(bg="deep sky blue", fg="purple", font=("Arial", 12, "bold"))
5 packs_entry = tk.Entry(insert_info_frame)
6 packs_entry.grid(row=14, column=1)
7
8 # Save Button
9 save_button = tk.Button(insert_info_frame, text="Save", command=collect_data)
0 save_button.grid(row=10, column=10)
1 save_button.configure(bg="blue", fg="pink", font=("Arial", 12, "bold"))
2
3 # Output Label & result
4 label = tk.Label(insert_info_frame, text='Total Price', font=("Arial", 12))
5 label.grid(row=0, column=2)
6 label.configure(bg="deep sky blue", fg="purple", font=("Arial", 12, "bold"))
7 output_label = tk.Label(insert_info_frame, text="")
8 output_label.grid(row=0, column=3)
9 output_label.configure(bg="deep sky blue", fg="dark blue", font=("Arial", 12, "bold"))
0
1
2 root.mainloop()
3

```

4.0 SNAPSHOT OF THE GUI

WELCOME TO ZQ CINEMA 3<

Movies & Prices:

Movie 1: MIGRATION, RM15

Movie 2: WISH, RM16

Movie 3: WAR ON TERROR, RM17

Movie 4: NIGHT HAS COMES , RM25

Insert Your Information

Name :		Total Price
Mobile Phone :		
Age :		
Movie :	Select Your Movie	
Packs:		

Save

WELCOME TO ZQ CINEMA 3<

Movies & Prices:

Movie 1: MIGRATION, RM15

Movie 2: WISH, RM16

Movie 3: WAR ON TERROR, RM17

Movie 4: NIGHT HAS COMES , RM25

Insert Your Information

Name :	<input type="text" value="Amirul Aiman"/>	Total Price	Name: Amirul Aiman, Phone Number: 0125463145, Age: 25, Selected Movie: WAR ON TERROR, Packs: 3, Total Price: RM51
Mobile Phone :	<input type="text" value="0125463145"/>		
Age :	<input type="text" value="25"/>		
Movie :	<input type="text" value="WAR ON TERROR"/>		
Packs:	<input type="text" value="3"/>		

Save

5.0 SNAPSHOT OF THE DATABASE

Databases

Create database

Database name: utf8mb4_general_ci

☐ Check all

Database	Collation	Action
<input type="checkbox"/> test	latin1_swedish_ci	Check privileges
<input type="checkbox"/> phpmyadmin	utf8_bin	Check privileges
<input type="checkbox"/> performance_schema	utf8_general_ci	Check privileges
<input type="checkbox"/> mysqlphton	utf8mb4_general_ci	Check privileges
<input type="checkbox"/> mysql	utf8mb4_general_ci	Check privileges
<input type="checkbox"/> information_schema	utf8_general_ci	Check privileges
<input type="checkbox"/> cinema_booking	utf8mb4_general_ci	Check privileges

Server: 127.0.0.1 » Database: cinema_booking

Structure SQL Search Query Export Import Operations Privileges Routines Events Triggers

Filters

Containing the word:

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> customer_booking	Browse Structure Search Insert Empty Drop	20	InnoDB	utf8mb4_general_ci	32.0 KiB	-
1 table	Sum	20	InnoDB	utf8mb4_general_ci	32.0 KiB	0 B

☐ Check all With selected:

Print Data dictionary

Create new table

Extra options

Name	Phone_Number	Age	Movie	Packs	Total_Price
Nursyuhaida	1121505438	23	WISH	3	48
MIRAGOJES	2147483647	17	NIGHT HAS COMES	10	250
aqib arfan	1132687166	22	WAR ON TERROR	3	51
Ainin maisara	1754856394	24	WISH	1	16
Siti noraziah	1124506754	43	WAR ON TERROR	2	34
Aiman Syafiq	1154656754	21	NIGHT HAS COMES	3	75
Dayana Batrisyia	1823457652	20	WISH	5	80
Seripul Azali	1823455682	33	WAR ON TERROR	2	34
Zikri Iqmal	1121506394	21	WAR ON TERROR	2	34
Alya Maisara	1154625621	26	WISH	4	64
Batrisyia Najwa	1185236595	21	MIGRATION	1	15
Zakuan Hakim	1121456254	23	MIGRATION	5	75
Daniel Safwan	1852413656	22	NIGHT HAS COMES	1	25
Aina Sofea	1114456591	20	WISH	2	32
Rosyaidi	1112542265	27	WAR ON TERROR	2	34
Puteri Hanis	1653548754	29	MIGRATION	8	120
Amirul Aiman	125463145	25	WAR ON TERROR	3	51
Liyana Nabihah	1278546985	24	WISH	2	32
Qistina Balqis	117854697	20	MIGRATION	8	120
Eliyana Batrisyia	117855897	21	MIGRATION	1	15