



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

DIPLOMA IN LIBRARY INFORMATIC (CDIM144)

IML208: PROGRAMMING FOR LIBRARIES

GROUP ASSIGNMENT:

“CINEMANIA”

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1.0 INTRODUCTION

In this group projects, we decided to make a database about movie cinema and it called "CINEMANIA". For this assignment, we choose to code a movie booking system in Python. The system is a simple Python programming application built with Tkinter for the graphical user interface (GUI) and MySQL Connector to link the Python programmed to the database, where the user must enter a few information in order to make a booking using the system.

The main window is the primary interface that users see upon launching the application. On the main window, there are three buttons: one for movies, one for customer details, and the last one for payment details.

For this movie booking system, we have made three submodules, which are the movie table, the customer details table, and the payment details table. Every table has its own functionality that the customer needs to use for the booking system. Firstly, the first submodule is the movie table; it is for customers to choose movies, showtimes, and seats. Next is the customer table. This table requires the customer to enter their data, such as their name, email, and phone number. The last one is a payment details table for customers to select methods of payment and enter the data needed.

Next, to interact with the data, we also use the CRUD (Create, Read, Update, Delete) operations in the database system. CRUD functions, explaining how they help with storing, getting, changing, and deleting data in a database. User interfaces and backend functionality must work together seamlessly for CRUD operations to be implemented in applications. Forms and buttons are examples of frontend elements that are intended to make it easier for users to interact with these functions.

In a GUI table interface, we have added buttons for "DELETE" and "UPDATE" to manage the records or entries within the table. In every table, we add a delete and update button so that customers can delete and update the data if they need to. The purpose of the "DELETE" button is to remove a selected record or entry from the table. Meanwhile, the "UPDATE" buttons allow customers to modify information in a selected record.

The process of developing a graphical user interface (GUI) that efficiently connects with a database. We use localhost as the hostname to connect to a database server. After all the data has been entered from customers, it will appear in the database, where it is stored through the table of the submodule.

2.0 PROBLEMS STATEMENT

2.1 INCORRECT INFORMATION

Sometimes the information accessible on movie booking websites is erroneous, such as showing times that are out of date or ticket prices that are incorrect. Customers may be confused and disappointed as a result of this. The consequences of incorrect information in the cinema industry are crucial. This may suffer the company from reputational damage if incorrect information increase, potentially impacting the future endeavours.

2.2 SECURITY CONCERNS

Online movie booking entails exchanging sensitive information with the booking website, such as credit card data. This may cause customers to be concerned about the security of their personal and financial information. (Ahasanul et al., 2009) observed that a problem which is noticeable is that there is no actual guarantee that a particular service can be sold online due to certain factors. From another important point of view, customers, as of now, do not feel fairly confident to engage in online transaction because of the insecurity associated with the disclosure of personal private information and data such as age, date of birth, nationality, and details of credit card on websites which are conditions often required by the vendors.

2.3 TECHNICAL ISSUES

Technical issues, such as sluggish loading times, website breakdowns, or difficulty processing payments, can occur with online movie booking systems at times. Customers may be irritated, and the movie theatre may lose sales as a result. One of the prominent technical issues encountered in online movie booking is sluggish loading times. When users encounter delays in accessing the booking platform, navigating through different sections, or loading seat selection interfaces, this occurs. Slow loading times not only frustrate users but also contribute to a subpar booking experience.

3.0 OBJECTIVES

3.1 ACCESSABLE SERVICES

To automate the ticketing procedure for the cinema hall. In order to reduce the work required to complete this operation. This is an online web platform where users and theatre owners can utilise to update movies in theatres. Customers will come to the ticket window less frequently if services are conveniently accessible to them. This might also save the company money because they won't require as many people at the ticket booths. Employees will be able to focus their efforts elsewhere. Online platforms do not require a rest or a night off. They can operate continuously, giving every client access to information at any time of day. The initiative aims to provide movie information and ticketing services 24 hours a day, seven days a week. Unlike traditional ticket windows, which have set hours of operation, online platforms are open 24/7, allowing customers to browse movie options, check showtimes, and make reservations at any time. This ensures that a diverse range of customers with varying schedules can be reached and served.

Lubeck, Wittman and Battistella (2012) are able to examine these issues by tracing the evolution of e-tickets and efforts by the organization to improve efficiency in ticketing operations. According to these authors, e-tickets have evolved to address concerns associated with "inefficiency in information management and control of operations" (p. 18). E-tickets, as noted by Lubeck and co-workers, require the creation of a comprehensive technological platform that controls almost every aspect of the customer relationship within the organization. As such, the roots of e-ticketing go much further than the interface with the customer.

3.2 DATA INTEGRITY

Data integrity. It is the main concern of data outsourcing. The data in the DSP may be a risk of loss or corruption. For example, Amazon, Dropbox, and Tencent Cloud lost their data due to natural disasters, software vulnerabilities and human error. The use of incomplete data can cause economic damage for data consumers and reputation damage for data providers (Zhang et al., 2023).

Particularly in this Application, Webpages and Forms, as well as controls in Webpages with which the user interacts. Application logic, often known as business rules, performs calculations and determines the application's flow. Business rules are the procedures and policies that govern how a company behaves. Business rules are self-imposed constraints that firms adopt to help them operate in their specific business environment. Business rules frequently establish and provide recommendations for application needs. The focus in on

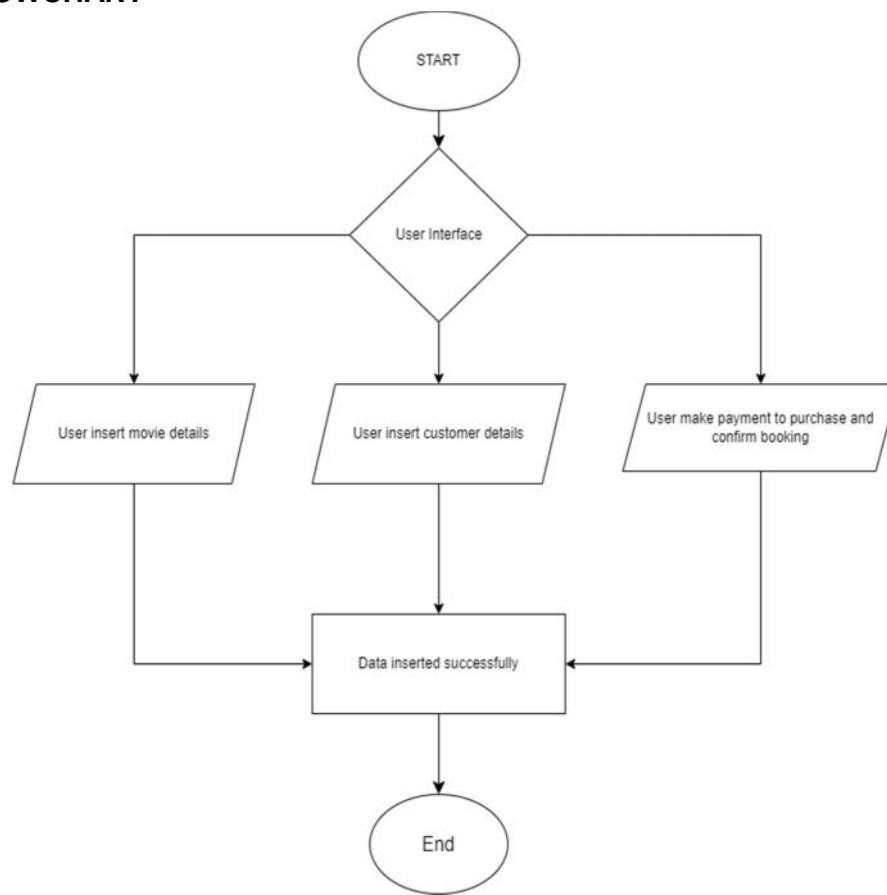
implementing and maintaining the integrity of webpages forms within the online ticketing platforms.

3.3 FACILE TO HANDLE

The system will be facile to use in that it will aid users in appropriately adding data without being confused about how to key in the data. Users will find it simple to use and manage the system thanks to an intuitive Graphical User Interface (GUI). The goal is to design a system that aim users in adding data without confusion. This includes developing clear and simple data input fields, validation prompts, and error feedback mechanisms.

The system's goal is not only to help users with data entry, but also to make overall system management simple and straightforward. This includes features like updating movie information, managing seat availability, and dealing with transaction records. Users, including cinema staff, can efficiently handle and maintain the online ticketing system by incorporating simplicity into these management tasks. Turner and Wilson (2010) integrated ticketing is expected to deliver greater flexibility and simplicity for passengers, prompting greater use of public transport, combined with smart ticketing to offer increased speed, convenience and security against loss and theft. Based on these statements, enough to prove that it is easy and also has many benefits if we use this system.

4.0 MAIN FLOWCHART

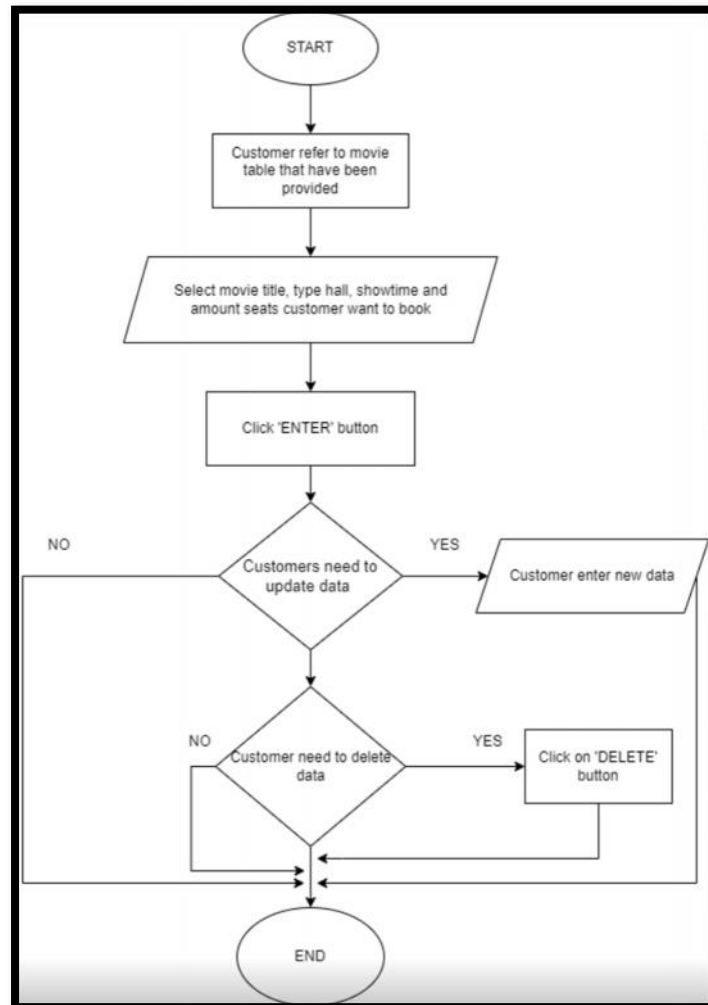


EXPLANATION:

The main flowchart starts with “START”, the starting point of our flowchart. Next, “user interface”, this is the interaction between the user and the system. In the flowchart, it appears that the user will interact the system with three different actions. First, “user insert customer details”, the users need to insert customer details, this could include information such as name, email and phone number. Secondly, “user insert movie details”, this suggests user to insert movie details including selecting a movie, type hall, and seat number. Thirdly, “user make payment to purchase and confirm booking”, user needs to make a payment to purchase and confirm the booking. Users can choose what type of way they want to pay it. Lastly, “data insert successfully”, this is the endpoint of all three actions. When users successfully complete any of three actions, it will end to this section.

5.0 SUBMODULES FLOWCHART

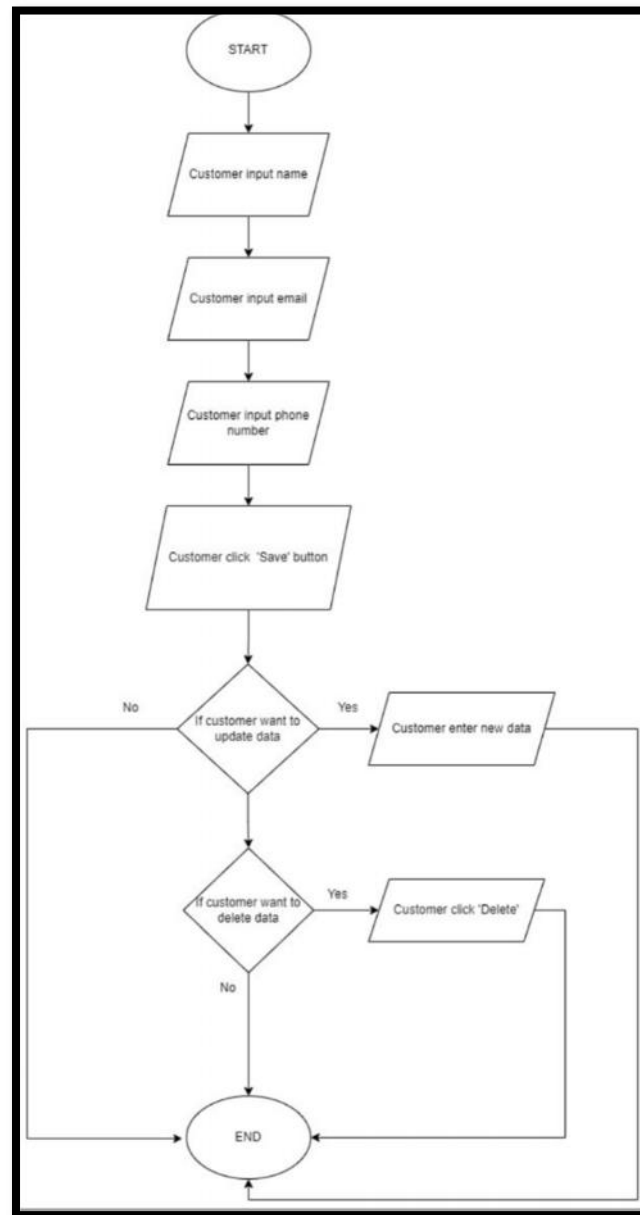
5.1 MOVIE



EXPLANATION:

Movie flowchart starting with “customer refer to movie table that has been provided” that’s mean, it has a lot of movie’s choices so that customer can refer to it. If they already decide what movie they want to watch, they can move to other section which is “select movie title, type hall, showtime, and amount seats customer want to book”. Then, “click ‘ENTER’ button”. If “customer need to update data”, it will proceed to “customer enter new data” if no, it will “END”. Other than that, if “customer need to delete data”, they need to “click on ‘DELETE’ button”. If no, the process will “END”.

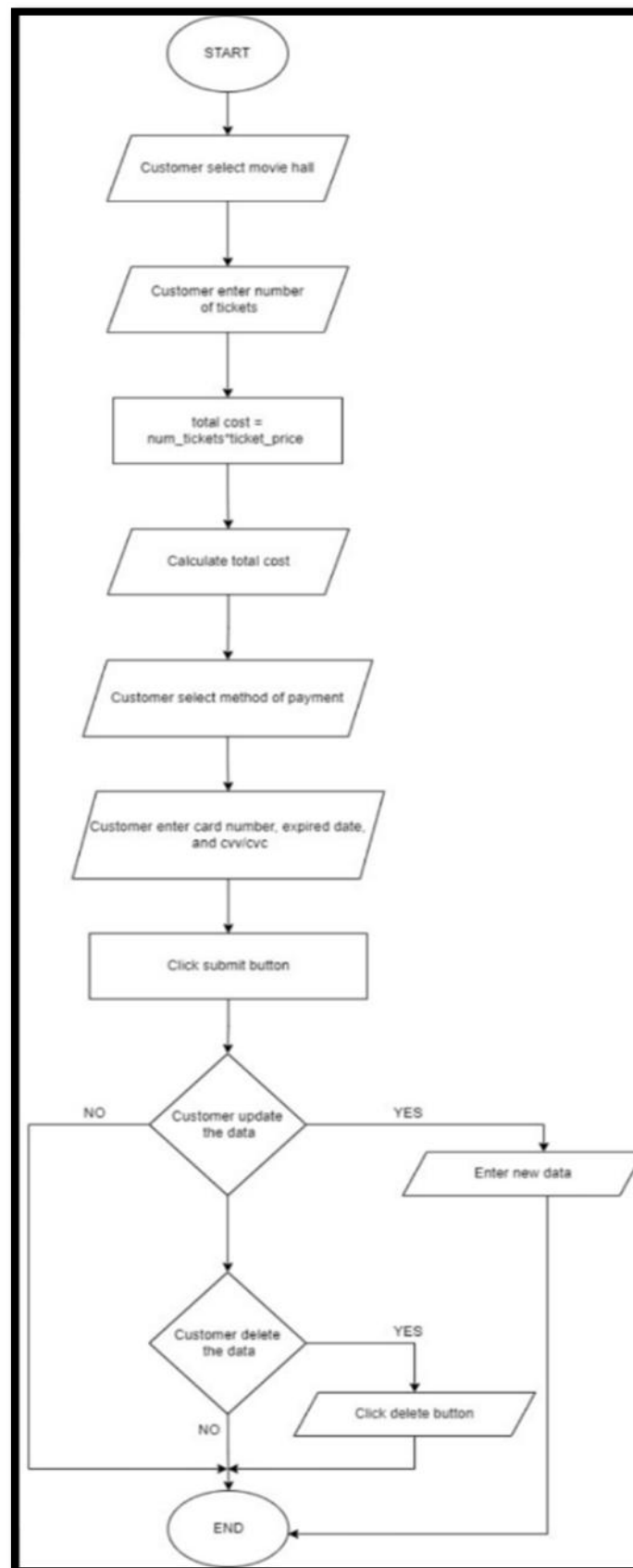
5.2 CUSTOMER



EXPLANATION:

First off, “customer input name”, they need to input their name as it required to. After that, “customer input email”, they have to fill in their email. Next, “customer input phone number”, they need to insert their phone number as it asked to. After all the requirement have been fill in, “customer click ‘Save button’”. If “customer want to update data”, “customer enter new data”. If no, the process will “END”. Other than that, if “customer want to delete data”, “customer click ‘Delete’” and the process will “END”.

5.3 PAYMENT DETAILS



EXPLANATION:

Flowchart for payment details, start off with “customer select movie hall”, as we provide various type of hall, users can choose their desire type hall. After that, “customer enter number of tickets”, by that user can choose as many tickets they want. And then, our system will calculate “total cost= num_tickets*ticket_price” and it will show the “calculate total cost”. User will see the total cost and proceed to the next steps, “customer select method of payment”. It will be the choices of methods that user can choose. And, “customer enter card number, expired date, and cvv/cvc” and “click submit button”. If “customer update the data”, they need to “enter new data”. If no, the process will “END”. Other than that, if “customer delete the data”, they need to “click delete button”. If no, the process will “END”.

6.0 PYTHON CODE

6.1 CINEMANIA IMPORTING CODE TO DATABASE SQL

Firstly, we insert the SQL Connector to our database so that all the information that user key in, will successfully keep in there and protect it from missing. After that, create a new database under name “cinemania” to connect it to “localhost”.

```
1  import tkinter as tk
2  from tkinter import ttk
3  from tkinter import messagebox
4  import mysql.connector
5  from tabulate import tabulate
6
7  # Connect to your MySQL database
8  mydb = mysql.connector.connect(
9      host="localhost",
10     user="root",
11     password="",
12     database="cinemania"
13 )
14
15 cursor = mydb.cursor()
16
17 class CINEMANIA:
18     def __init__(self, master):
19
20         self.master = master
21         master.title("CINEMANIA")
22         master.geometry('700x400')
23         self.master.configure(bg='grey1')
24
25         # Connect to your MySQL database
26         self.mydb = mysql.connector.connect(
27             host="localhost",
28             user="root",
29             password="",
30             database="cinemania"
31         )
32
33
34
```

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```
32
33     self.cursor = self.mydb.cursor()
34
```

6.2 GUI CODING FOR THE MAIN MENU AND BUTTON FOR EACH GUI

In this part, we are creating the main menu with “Welcome to CINEMANIA!” name. Next, we create the interface for user to choose “movie”, “customer” and “payment”. They can click to each of these three buttons. Also, we used “Times New Roman” font to make it more interactive to the users.

```
# GUI for the main menu
master_frame = tk.Frame(master)
master_frame.pack()

master_label = tk.Label(master_frame, text="Welcome to CINEMANIA!", font=('Times New Roman', 25, 'bold'), bg='red3', fg='grey2')
master_label.pack(ipadx=470, ipady=12)

# Create buttons for each GUI
movie_btn = self.create_button("MOVIE", ('Arial', 15), 'red4', 'black', 10, 'groove', self.movie_details_window)
movie_btn.pack(pady=25)

customer_btn = self.create_button("CUSTOMER", ('Arial', 15), 'red4', 'black', 10, 'groove', self.customer_details_window)
customer_btn.pack(pady=25)

payment_btn = self.create_button("PAYMENT", ('Arial', 15), 'red4', 'black', 10, 'groove', self.payment_details_window)
payment_btn.pack(pady=25)

def create_button(self, text, font, bg, fg, bd, relief, command=None):
    return tk.Button(self.master, text=text, font=font, bg=bg, fg=fg, bd=bd, relief=relief, command=command)

def movie_details_window(self):
    window = tk.Toplevel(self.master)
    window.title("Movie Details")
```

6.3 CODING FOR MOVIE (FIRST SUBMODULES)

Our first submodules are Movie. In this part of coding, user can see the various choices of movie title, genre, hall, showtime and price. Users can choose their interest movie to watch based on the type hall that they want, each of the movie has their own showtimes that we already set up for it.

```
60 # Create movie data
61 data = [{"Spider Man 3", "Action & Adventure", "2D", "10AM - 12PM", "RM15"},
62         {"Spider Man 3", "Action & Adventure", "Deluxe", "2PM - 4PM", "RM20"},
63         {"Spider Man 3", "Action & Adventure", "IMAX", "6PM - 8PM", "RM25"},
64         {"Spider Man 3", "Action & Adventure", "Family Session", "8PM - 10PM", "RM30"},
65         {"Baymax: The Movie", "Action & Comedy", "2D", "10AM - 12PM", "RM15"},
66         {"Baymax: The Movie", "Action & Comedy", "Deluxe", "2PM - 4PM", "RM20"},
67         {"Baymax: The Movie", "Action & Comedy", "IMAX", "6PM - 8PM", "RM25"},
68         {"Baymax: The Movie", "Action & Comedy", "Family Session", "8PM - 10PM", "RM30"},
69         {"Boboiboy The Movie", "Action & Comedy", "2D", "10AM - 12PM", "RM15"},
70         {"Boboiboy The Movie", "Action & Comedy", "Deluxe", "2PM - 4PM", "RM20"},
71         {"Boboiboy The Movie", "Action & Comedy", "IMAX", "6PM - 8PM", "RM25"},
72         {"Boboiboy The Movie", "Action & Comedy", "Family Session", "8PM - 10PM", "RM30"},
73         {"The Nun", "Horror", "2D", "10AM - 12PM", "RM15"},
74         {"The Nun", "Horror", "Deluxe", "2PM - 4PM", "RM20"},
75         {"The Nun", "Horror", "IMAX", "6PM - 8PM", "RM25"},
76         {"The Nun", "Horror", "Family Session", "8PM - 10PM", "RM30"},
77         {"Titanic", "Romance", "2D", "10AM - 12PM", "RM15"},
78         {"Titanic", "Romance", "Deluxe", "2pm - 4PM", "RM20"},
79         {"Titanic", "Romance", "IMAX", "6PM - 8PM", "RM25"},
80         {"Titanic", "Romance", "Family Session", "8PM - 10PM", "RM30"}]
81
82 # Define header names
83 col_names = ["Movie", "Genre", "Hall", "Showtime", "Price"]
84
85 # Display table
86 dataframe = tk.Frame(window, bd=8, bg='grey1', relief='groove')
87 dataframe.grid(row=0, column=0, ipadx=20)
88 data_label = tk.Label(dataframe, text='Movie Table', font='Cambria 15 bold', bg='red3', relief='raise')
89 data_label.grid(row=0, column=0, padx=10)
```

```
93
94 # User information
95 detailsframe = tk.Frame(window, bd=8, bg='grey1', relief='groove')
96 detailsframe.grid(row=2, column=0)
97 title_label = tk.Label(detailsframe, text='Title', bg='red1', relief='ridge')
98 title_label.grid(row=0, column=0, padx=10, pady=10)
99 title = ttk.Combobox(detailsframe,
100                      values=['Spider Man 3 (Action & Adventure)', 'Baymax: The Movie (Action & Comedy)',
101                              'Boboiboy The Movie (Action & Comedy)', 'The Nun (Horror)', 'Titanic (Romance)'])
102 title.grid(row=1, column=0, padx=50, ipadx=55)
103
104 hall_label = tk.Label(detailsframe, text='Hall', bg='red1', relief='ridge')
105 hall_label.grid(row=0, column=1, padx=5, pady=3)
106 hall = ttk.Combobox(detailsframe, values=["2D (classic) = RM15", "Deluxe =RM20", "IMAX (Grand Theatre)= RM25",
107                                         "Family Session=RM30"])
108 hall.grid(row=1, column=1, padx=5, ipadx=30)
109
110 showtime_label = tk.Label(detailsframe, text='Showtime', bg='red1', relief='ridge')
111 showtime_label.grid(row=2, column=0, padx=20, pady=20)
112 showtime = ttk.Combobox(detailsframe, values=['10AM - 12PM', '2PM - 4PM', '6PM - 8PM', '8PM - 10PM'])
113 showtime.grid(row=3, column=0, ipadx=55)
114
115 seat_label = tk.Label(detailsframe, text='Seat No.', bg='red1', relief='ridge')
116 seat_label.grid(row=2, column=1, padx=10, pady=10)
117 seat_frame = tk.Frame(detailsframe, bd=8)
118 seat_frame.grid(row=3, column=1, rowspan=5)
119 seat = tk.Listbox(seat_frame, selectmode='multiple', font='Courier 10', bg='white')
120 seat.pack(side='left')
121 seat_scrollbar = tk.Scrollbar(seat_frame, bg='red1', command=seat.yview)
122 seat_scrollbar.pack(side='right', fill='y')
123 seat.insert(1, "1A", "2A", "3A", "4A", "5A", "6A", "7A", "8A", "9A", "10A", "1B", "2B", "3B", "4B", "5B", "6B", "7B",
124             "8B", "9B", "10B",
```

```

124         "8B", "9B", "10B",
125         "1C", "2C", "3C", "4C", "5C", "6C", "7C", "8C", "9C", "10C", "1D", "2D", "3D", "4D", "5D", "6D", "7D", "8D",
126         "9D", "10D",
127         "1E", "2E", "3E", "4E", "5E", "6E", "7E", "8E", "9E", "10E", "1F", "2F", "3F", "4F", "5F", "6F", "7F", "8F",
128         "9F", "10F")
129
130     # Create a cursor object to interact with the database
131     self.cursor = self.mydb.cursor()
132
133     def enter_data():
134         try:
135             # Get the selected indices from the listbox
136             selected_indices = seat.curselection()
137
138             # Check if any seat is selected
139             if not selected_indices:
140                 messagebox.showerror("Error", "Please select at least one seat.")
141                 return
142
143             # Get the selected seats using the indices
144             selected_seats = [seat.get(index) for index in selected_indices]
145
146             # Inserting data into a table
147             sql = "INSERT INTO movie_info (Title, Hall, Showtime, Seat) VALUES (%s, %s, %s, %s)"
148             val = (title.get(), hall.get(), showtime.get(), ', '.join(selected_seats))
149
150             cursor.execute(sql, val)
151             mydb.commit()
152             print("Data inserted successfully!")
153
154             # Get selected movie information
155             selected_movie = title.get().split(',')[0].strip()

```

```

151     mydb.commit()
152     print("Data inserted successfully!")
153
154     # Get selected movie information
155     selected_movie = title.get().split(',')[0].strip()
156     selected_hall = hall.get().split('=')[0].strip()
157     selected_showtime = showtime.get()
158
159     # Show a messagebox with information about successful insertion
160     messagebox.showinfo("Success", f"Data inserted successfully!\n\n"
161                             f"Movie: {selected_movie}\n"
162                             f"Hall: {selected_hall}\n"
163                             f>Showtime: {selected_showtime}\n"
164                             f"Seats: {', '.join(selected_seats)}")
165
166     except mysql.connector.Error as err:
167         print(f"Error: {err}")
168         self.mydb.rollback()
169
170     # Optional: Display an error message to the user
171     messagebox.showerror("Error", f"Error inserting data: {err}")
172
173     finally:
174         self.cursor.close()
175
176     def update_database():
177         try:
178             new_movie = title.get()
179             new_hall = hall.get()
180             new_showtime = showtime.get()
181
182             # Get the selected indices from the listbox

```



```

180 new_showtime = showtime.get()
181
182 # Get the selected indices from the Listbox
183 selected_indices = seat.curselection()
184
185 # Check if any seat is selected
186 if not selected_indices:
187     messagebox.showerror("Error", "Please select at least one seat.")
188     return
189
190 # Get the selected seats using the indices
191 selected_seats = [seat.get(index) for index in selected_indices]
192
193 # Updating data in the table including selected seats
194 sql = "UPDATE movie_info SET Title=%s, Hall=%s, Seat=%s WHERE Showtime=%s"
195 val = (new_movie, new_hall, ', '.join(selected_seats), new_showtime)
196
197 cursor.execute(sql, val)
198 mydb.commit()
199 print("Data updated successfully!")
200
201 # Optional: Display a message to the user indicating a successful update
202 messagebox.showinfo("Success", "Data updated successfully!")
203
204 except mysql.connector.Error as err:
205     print(f"Error: {err}")
206     self.mydb.rollback()
207     # Optional: Display an error message to the user
208     messagebox.showerror("Error", f"Error updating data: {err}")
209
210 finally:
211     self.cursor.close()

```

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```

210 finally:
211     self.cursor.close()
212
213 def delete_data():
214     try:
215         # Get the selected indices from the Listbox
216         selected_indices = seat.curselection()
217
218         # Check if any seat is selected
219         if not selected_indices:
220             messagebox.showerror("Error", "Please select at least one seat.")
221             return
222
223         # Get the selected seats using the indices
224         selected_seats = [seat.get(index) for index in selected_indices]
225
226         # Deleting data from the table based on Seat
227         sql = "DELETE FROM movie_info WHERE Title=%s AND Hall=%s AND Showtime=%s AND Seat =%s"
228         val = (title.get(), hall.get(), showtime.get(), ', '.join(selected_seats))
229
230         cursor.execute(sql, val)
231         mydb.commit()
232         print("Data deleted successfully!")
233
234         # Optional: Display a message to the user indicating a successful deletion
235         messagebox.showinfo("Success", "Data deleted successfully!")
236
237     except mysql.connector.Error as err:
238         print(f"Error: {err}")
239         self.mydb.rollback()
240
241     # Optional: Display an error message to the user

```

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```

        # Optional: Display an error message to the user
        messagebox.showerror("Error", f"Error deleting data: {err}")

    finally:
        # Close the cursor and the database connection
        self.cursor.close()
        self.mydb.close()

# Create button to enter data into the table
enter_button = tk.Button(detailsframe, text="ENTER", bg='red1', relief='raise', command=enter_data)
enter_button.grid(row=0, column=2, rowspan=3, padx=40, ipady=15, ipadx=30)

# Create button to update data in the table
update_button = tk.Button(detailsframe, text="UPDATE", bg='red1', relief='raise', command=update_database)
update_button.grid(row=2, column=2, rowspan=3, padx=40, ipady=15, ipadx=25)

# Create button to delete data from the table
delete_button = tk.Button(detailsframe, text="DELETE", bg='red1', relief='raise', command=delete_data)
delete_button.grid(row=4, column=2, rowspan=3, padx=40, ipady=15, ipadx=27)

```

6.4 CUSTOMER INFO CODING

For customer info, user need to fill in the requirement boxes that include “Name”, “Email”, “Phone number”. For phone number, user need to fill in their phone number and start with the number “6”. For example, like, 60136789543. Users also can save, update and delete their data if they want to. Once they already fill in the requirement, it will show the “Data inserted successfully” message. If user need to update the data, they can press the update button, and if successfully it will show the “Data updated successfully!” message. If users need to delete the data, they can press the delete button and if successfully it will show the “Data deleted successfully!”.

```
C:\> Users > Asus > Downloads > Telegram Desktop > CINEMANIA (2).py > CINEMANIA > delete_data_customer
263 ===== CUSTOMER =====
264
265 def customer_details_window(self):
266     customer_window = tk.Toplevel(self.master)
267     customer_window.title("Customer Details")
268     customer_window.configure(bg='grey1')
269
270     # Create and place widgets
271     label_name = tk.Label(customer_window, text="Name:", bg='red1', relief='ridge')
272     label_name.grid(row=0, column=0, padx=10, pady=5, sticky=tk.W)
273     self.entry_name = tk.Entry(customer_window)
274     self.entry_name.grid(row=0, column=1, padx=10, pady=5, ipadx=30)
275
276     label_email = tk.Label(customer_window, text="E-mail:", bg='red1', relief='ridge')
277     label_email.grid(row=1, column=0, padx=10, pady=5, sticky=tk.W)
278     self.entry_email = tk.Entry(customer_window)
279     self.entry_email.grid(row=1, column=1, padx=10, pady=5, ipadx=30)
280
281     label_phone = tk.Label(customer_window, text="Phone Number:", bg='red1', relief='ridge')
282     label_phone.grid(row=2, column=0, padx=10, pady=5, sticky=tk.W)
283     self.entry_phone = tk.Entry(customer_window)
284     self.entry_phone.grid(row=2, column=1, padx=10, pady=5, ipadx=30)
285
286     save_button = tk.Button(customer_window, text="SAVE", bg='red1', relief='raise', command=self.save_customer)
287     save_button.grid(row=4, column=1, columnspan=1, pady=10, padx=40, ipady=8, ipadx=20)
288
289     #Create button to update data in the table
290     update_button = tk.Button(customer_window, text="UPDATE",bg='red1', relief='raise', command=self.update_database_customer)
291     update_button.grid(row=5, column=1, columnspan=5, pady=5, padx=40, ipady=8, ipadx=13)
292
293     # Create button to delete data from the table
294     delete_button = tk.Button(customer_window, text="DELETE",bg='red1',relief='raise',command=self.delete_data_customer)
```

Ln 360, Col 13 Spaces: 4 UTF-8 CRLF Python 3.12

```
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CINEMANIA (2).py X
C:\Users\Asus\Downloads\Telegram Desktop> CINEMANIA (2).py > CINEMANIA > delete_data_customer

293 # Create button to delete data from the table
294 delete_button = tk.Button(customer_window, text="DELETE",bg='red1',relief='raise',command=self.delete_data_customer)
295 delete_button.grid(row=6, column=1, columnspan=2, pady= 6, padx=40, ipady=8, ipadx=15)
296
297 def save_customer(self):
298
299     customer_name = self.entry_name.get()
300     email = self.entry_email.get()
301     phone_number = self.entry_phone.get()
302
303     # Display a message box with the collected information
304     message=f"Name: {customer_name}\nE-mail: {email}\nPhone Number: {phone_number}"
305     messagebox.showinfo ("Customer Information", message)
306
307     sql = "INSERT INTO customer_details (cus_name, cus_email, cus_phone_number) VALUES (%s, %s, %s)"
308     val = (customer_name, email, phone_number)
309
310     try:
311         cursor.execute(sql, val)
312         mydb.commit()
313         print('Data inserted successfully!')
314     except mysql.connector.Error as err:
315         print(f"Error:{err}")
316         self.mydb.rollback()
317
318     finally:
319         self.cursor.close()
320         self.mydb.close()
321
322 def update_database_customer(self):
323     try:
324         new_name = self.entry_name.get()
325         new_email = self.entry_email.get()
326         new_phone = self.entry_phone.get()
327
328         # Updating data in the table for a specific customer based on their name
329         sql = "UPDATE customer_details SET cus_name=%s, cus_email=%s WHERE cus_phone_number=%s"
330         val = (new_name, new_email, new_phone)
331
332         cursor.execute(sql, val)
333         mydb.commit()
334         print("Data updated successfully!")
335
336         # Optional: Display a message to the user indicating a successful update
337         messagebox.showinfo("Success", "Data updated successfully!")
338
339     except mysql.connector.Error as err:
340         print(f"Error: {err}")
341         self.mydb.rollback()
342         # Optional: Display an error message to the user
343         messagebox.showerror("Error", f"Error updating data: {err}")
344
345     finally:
346         self.cursor.close()
347
348 def delete_data_customer(self):
349     try:
350         # Fetch the current values from entry widgets
351         name = self.entry_name.get()
352         email = self.entry_email.get()
353         phone_number = self.entry_phone.get()
354
355         # Display a message box with the collected information
356         message=f"Name: {name}\nE-mail: {email}\nPhone Number: {phone_number}"
357         messagebox.showinfo ("Customer Information", message)
358
359         sql = "DELETE FROM customer_details WHERE cus_name=%s AND cus_email=%s AND cus_phone_number=%s"
360         val = (name, email, phone_number)
361
362         cursor.execute(sql, val)
363         mydb.commit()
364         print("Data deleted successfully!")
365
366         # Optional: Display a message to the user indicating a successful delete
367         messagebox.showinfo("Success", "Data deleted successfully!")
368
369     except mysql.connector.Error as err:
370         print(f"Error: {err}")
371         self.mydb.rollback()
372
373     finally:
374         self.cursor.close()
375         self.mydb.close()
376
377 if __name__ == '__main__':
378     obj = CustomerForm()
379     obj.root.mainloop()
380
381 # End of Program
```

```
File Edit Selection View Go Run ... Untitled (Workspace)
CINEMANIA (2).py X
C:\Users\Asus\Downloads\Telegram Desktop> CINEMANIA (2).py > CINEMANIA > delete_data_customer

323     try:
324         new_name = self.entry_name.get()
325         new_email = self.entry_email.get()
326         new_phone = self.entry_phone.get()
327
328         # Updating data in the table for a specific customer based on their name
329         sql = "UPDATE customer_details SET cus_name=%s, cus_email=%s WHERE cus_phone_number=%s"
330         val = (new_name, new_email, new_phone)
331
332         cursor.execute(sql, val)
333         mydb.commit()
334         print("Data updated successfully!")
335
336         # Optional: Display a message to the user indicating a successful update
337         messagebox.showinfo("Success", "Data updated successfully!")
338
339     except mysql.connector.Error as err:
340         print(f"Error: {err}")
341         self.mydb.rollback()
342         # Optional: Display an error message to the user
343         messagebox.showerror("Error", f"Error updating data: {err}")
344
345     finally:
346         self.cursor.close()
347
348 def delete_data_customer(self):
349     try:
350         # Fetch the current values from entry widgets
351         name = self.entry_name.get()
352         email = self.entry_email.get()
353         phone_number = self.entry_phone.get()
354
355         # Display a message box with the collected information
356         message=f"Name: {name}\nE-mail: {email}\nPhone Number: {phone_number}"
357         messagebox.showinfo ("Customer Information", message)
358
359         sql = "DELETE FROM customer_details WHERE cus_name=%s AND cus_email=%s AND cus_phone_number=%s"
360         val = (name, email, phone_number)
361
362         cursor.execute(sql, val)
363         mydb.commit()
364         print("Data deleted successfully!")
365
366         # Optional: Display a message to the user indicating a successful delete
367         messagebox.showinfo("Success", "Data deleted successfully!")
368
369     except mysql.connector.Error as err:
370         print(f"Error: {err}")
371         self.mydb.rollback()
372
373     finally:
374         self.cursor.close()
375         self.mydb.close()
376
377 if __name__ == '__main__':
378     obj = CustomerForm()
379     obj.root.mainloop()
380
381 # End of Program
```

The screenshot shows a PyCharm IDE window with a Python script named `delete_data_customer`. The script is part of a class `CINEMANIA` and defines a method `delete_data_customer(self)`. The method's logic is as follows:

- It fetches the current values from three entry widgets: `self.entry_name.get()`, `self.entry_email.get()`, and `self.entry_phone.get()`.
- It constructs an SQL `DELETE` statement: `sql = "DELETE FROM customer_details WHERE cus_name=%s AND cus_email=%s AND cus_phone_number=%s"`.
- It creates a tuple `val = (name, email, phone)` for the query parameters.
- It executes the query using `cursor.execute(sql, val)` and commits the transaction with `mydb.commit()`.
- It prints a success message: `print("Data deleted successfully!")`.
- It has an optional step to display a success message to the user: `messagebox.showinfo("Success", "Data deleted successfully!")`.
- It includes an exception handler for `mysql.connector.Error`. If an error occurs, it prints the error, rolls back the transaction with `self.mydb.rollback()`, and displays an error message to the user: `messagebox.showerror("Error", f"Error deleting data: {err}")`.
- Finally, it closes the cursor and the database connection: `self.cursor.close()` and `self.mydb.close()`.

The script is located at `C:\Users\Asus\Downloads\Telegram Desktop\CINEMANIA (2).py`. The status bar at the bottom indicates the current line is 360, column 13, with 4 spaces, using UTF-8 encoding and CRLF line endings. The Python version is 3.12.0 64-bit.

6.5 PAYMENT DETAILS

In this payment details part, the users need to select their movie hall that they choose earlier and also the number of tickets. Because in this part it will calculate the total cost and the user needs to make a payment. After that, users need to make a payment by choosing methods of payment. This includes MasterCard, Visa and Apple pay. After choosing the type of credit card, the users need to fill in the requirement boxes such as, card number, expired date and cvv/cvc to successfully book the tickets.

```
File Edit Selection View Go Run ... Untitled (Workspace)
CINEMANIA (2).py X
C:\Users> Asus > Downloads > Telegram Desktop > CINEMANIA (2).py > CINEMANIA > delete_data_customer
payment
=====
378
379
380 def payment_details_window(self):
381     payment_window = tk.Toplevel(self.master)
382     payment_window.title("Payment Details")
383     payment_window.configure(bg='grey1')
384     # Payment Frame
385     payment_details_frame = tk.LabelFrame(payment_window, text="Payment", bg='gray25', fg='white')
386     payment_details_frame.grid(row=1, column=0, padx=30, pady=20, columnspan=3)
387
388     method_of_payment_label = tk.Label(payment_details_frame, text="Method of Payment", bg='red1', relief='ridge')
389     self.method_of_payment_combobox = ttk.Combobox(payment_details_frame, values=["Master Card", "VISA", "Apple pay"])
390     method_of_payment_label.grid(row=0, column=0)
391     self.method_of_payment_combobox.grid(row=1, column=0)
392
393     card_num_label = tk.Label(payment_details_frame, text="Card Number", bg='red1', relief='ridge')
394     card_num_label.grid(row=0, column=1)
395     expired_date_label = tk.Label(payment_details_frame, text="Expired Date", bg='red1', relief='ridge')
396     expired_date_label.grid(row=0, column=2)
397     sec_code_label = tk.Label(payment_details_frame, text="CVV/CVC", bg='red1', relief='ridge')
398     sec_code_label.grid(row=0, column=3)
399
400     self.card_num_entry = tk.Entry(payment_details_frame)
401     self.expired_date_entry = tk.Entry(payment_details_frame)
402     self.sec_code_entry = tk.Entry(payment_details_frame)
403     self.card_num_entry.grid(row=1, column=1)
404     self.expired_date_entry.grid(row=1, column=2)
405     self.sec_code_entry.grid(row=1, column=3)
406
407     for widget in payment_details_frame.winfo_children():
408         widget.grid_configure(padx=10, pady=5)
409
Ln 360, Col 13 Spaces: 4 UTF-8 CRLF Python 3.12.0 64-bit
```

```
File Edit Selection View Go Run ... Untitled (Workspace)
CINEMANIA (2).py X
C:\Users> Asus > Downloads > Telegram Desktop > CINEMANIA (2).py > CINEMANIA > delete_data_customer
408 widget.grid_configure(padx=10, pady=5)
409
410 # Movie Ticket Cost Calculation Frame
411 frame = tk.Frame(payment_window)
412 frame.grid(row=0, column=0, columnspan=3)
413 frame.configure(bg='gray25')
414
415 hall_label = tk.Label(frame, text="Select Movie Hall:", bg='red1', relief='ridge')
416 self.hall_combobox = ttk.Combobox(frame, values=["2D", "Deluxe", "IMAX", "Family Session"])
417 hall_label.grid(row=0, column=0, padx=10, pady=5)
418 self.hall_combobox.grid(row=1, column=0, padx=10, pady=5)
419
420 num_tickets_label = tk.Label(frame, text="Number of Tickets:", bg='red1', relief='ridge')
421 self.num_tickets_entry = tk.Entry(frame)
422 num_tickets_label.grid(row=0, column=1, padx=10, pady=5)
423 self.num_tickets_entry.grid(row=1, column=1, padx=10, pady=5)
424
425 calculate_button = tk.Button(frame, text="Calculate", bg='red1', relief='ridge', command=self.calculate_cost)
426 calculate_button.grid(row=1, column=2, pady=10, ipadx=20)
427
428 self.result_label = tk.Label(frame, text="", bg='white')
429 self.result_label.grid(row=5, column=0, pady=5)
430
431 # Submission and Control Buttons
432 submit_button = tk.Button(payment_window, text="SUBMIT", bg='red1', relief='raise', command=self.enter_data_payment)
433 submit_button.grid(row=2, column=0, pady=5, padx=2, ipadx=30)
434
435 update_button = tk.Button(payment_window, text="UPDATE", bg='red1', relief='raise', command=self.update_database_payment)
436 update_button.grid(row=2, column=1, pady=5, padx=2, ipadx=30)
437
438 delete_button = tk.Button(payment_window, text="DELETE", bg='red1', relief='raise', command=self.delete_data_payment)
439 delete_button.grid(row=2, column=2, pady=5, padx=2, ipadx=30)

Ln 360, Col 13 Spaces: 4 UTF-8 CRLF Python 3.12.0 64-bit
```

```

File Edit Selection View Go Run ... Untitled (Workspace)
CINEMANIA (2).py X
C:\Users> Asus > Downloads > Telegram Desktop > CINEMANIA (2).py > CINEMANIA > delete_data_customer

438 delete_button = tk.Button(payment_window, text="DELETE", bg='red1', relief='raise', command=self.delete_data_payment)
439 delete_button.grid(row=2, column=2, pady=5, padx=2, ipadx=30)
440
441 def calculate_cost(self):
442     selected_hall = self.hall_combobox.get()
443     num_tickets = int(self.num_tickets_entry.get())
444
445     hall_prices = {
446         "2D": 15,
447         "Deluxe": 20,
448         "IMAX": 25,
449         "Family Session": 30
450     }
451
452     if selected_hall in hall_prices:
453         ticket_price = hall_prices[selected_hall]
454         total_cost = num_tickets * ticket_price
455         self.result_label.config(text=f"Total Cost: RM {total_cost}")
456     else:
457         self.result_label.config(text="Invalid Hall Selection")
458
459 def enter_data_payment(self):
460     method_of_payment = self.method_of_payment_combobox.get()
461     card_number = self.card_num_entry.get()
462     expired_date = self.expired_date_entry.get()
463     cvv_cvc = self.sec_code_entry.get()
464
465     selected_hall = self.hall_combobox.get()
466     num_tickets = int(self.num_tickets_entry.get())
467
468     hall_prices = {
469         "2D": 15,

```

```

File Edit Selection View Go Run ... Untitled (Workspace)
CINEMANIA (2).py X
C:\Users> Asus > Downloads > Telegram Desktop > CINEMANIA (2).py > CINEMANIA > delete_data_customer

468     hall_prices = {
469         "2D": 15,
470         "Deluxe": 20,
471         "IMAX": 25,
472         "Family Session": 30
473     }
474
475     if selected_hall in hall_prices:
476         ticket_price = hall_prices[selected_hall]
477         total_cost = num_tickets * ticket_price
478
479         # Create a popup window with the collected information and total cost
480         popup = tk.Toplevel(self.master)
481         popup.title("Payment Details")
482
483         # Calculate the right side position of the popup window
484         right_position = self.master.winfo_x() + self.master.winfo_width()
485
486         # Set the geometry of the popup window to appear on the right side
487         popup.geometry(f"{right_position}x{self.master.winfo_y()}")
488
489         message = f"Method of Payment: {method_of_payment}\nCard Number: {card_number}\nExpired Date: {expired_date}\nSecurity Code: {cvv_cvc}"
490         label = tk.Label(popup, text=message, padx=10, pady=10)
491         label.pack()
492
493         # Optionally, you can add OK button to close the popup
494         ok_button = tk.Button(popup, text="OK", command=popup.destroy)
495         ok_button.pack()
496
497     try:
498         enl = "INCPST TNT0 naumnt info (Method of Payment, card number, expired date, CVV/CVC, total cost) VALUES (%s, %s, %s, %s, %s)"

```

```

File Edit Selection View Go Run ... Untitled (Workspace)
C:\Users> Asus > Downloads > Telegram Desktop > CINEMANIA (2).py > CINEMANIA > delete_data_customer

498
499
500     sql = "INSERT INTO payment_info (Method_of_Payment, card_number, expired_date, CVV_CVC, total_cost) VALUES (%s, %s, %s, %s, %s)"
501     val = (method_of_payment, card_number, expired_date, cvv_cvc, total_cost)
502
503     cursor.execute(sql, val)
504     mydb.commit()
505     print("Data inserted successfully")
506
507 except mysql.connector.Error as err:
508     print(f"Error: {err}")
509     self.mydb.rollback()
510
511 else:
512     self.result_label.config(text="Invalid Hall Selection")
513
514 finally:
515     self.cursor.close()
516
517 def update_database_payment(self):
518     try:
519         new_method = self.method_of_payment_combobox.get()
520         new_card_num = self.card_num_entry.get()
521         new_expired_date = self.expired_date_entry.get()
522         new_code = self.sec_code_entry.get()
523
524         # Updating data in the table for a specific customer based on their name
525         sql = "UPDATE payment_info SET Method_of_Payment=%s, card_number=%s, expired_date=%s WHERE CVV_CVC=%s"
526         val = (new_method, new_card_num, new_expired_date, new_code)
527
528         cursor.execute(sql, val)
529         mydb.commit()
530         print("Data updated successfully!")
531
532         # Optional: Display a message to the user indicating a successful update
533         messagebox.showinfo("Success", "Data updated successfully!")
534
535 except mysql.connector.Error as err:
536     print(f"Error: {err}")
537     self.mydb.rollback()
538
539 # Optional: Display an error message to the user
540 messagebox.showerror("Error", f"Error updating data: {err}")
541
542 finally:
543     self.cursor.close()
544
545 def delete_data_payment(self):
546     try:
547         # Deleting data from the table based on Seat
548         sql = "DELETE FROM payment_info WHERE Method_of_Payment=%s AND card_number=%s AND expired_date=%s AND CVV_CVC=%s"
549         val = (self.method_of_payment_combobox.get(), self.card_num_entry.get(), self.expired_date_entry.get(), self.sec_code_entry.get())
550
551         cursor.execute(sql, val)
552         mydb.commit()
553         print("Data deleted successfully!")
554
555         # Optional: Display a message to the user indicating a successful deletion
556         messagebox.showinfo("Success", "Data deleted successfully!")
557
558 except mysql.connector.Error as err:
559     print(f"Error: {err}")
560
561 finally:
562     self.cursor.close()
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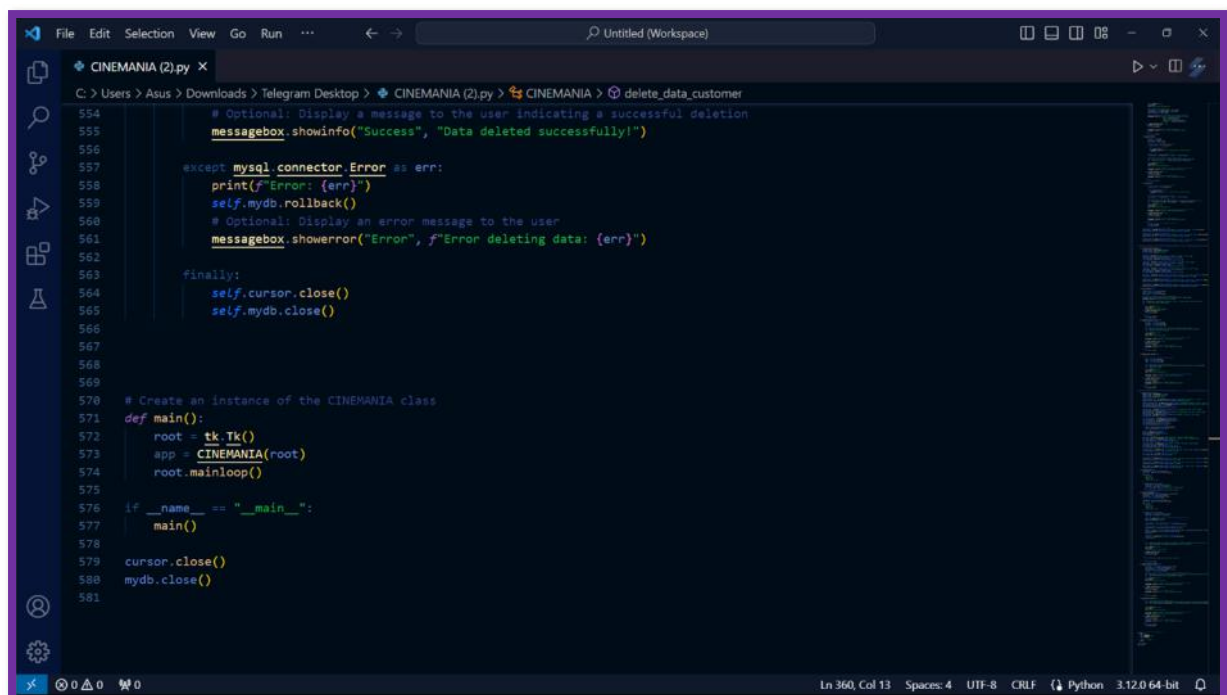
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File Edit Selection View Go Run ... Untitled (Workspace)
C:\Users> Asus > Downloads > Telegram Desktop > CINEMANIA (2).py > CINEMANIA > delete_data_customer

527
528
529     mydb.commit()
530     print("Data updated successfully!")
531
532     # Optional: Display a message to the user indicating a successful update
533     messagebox.showinfo("Success", "Data updated successfully!")
534
535 except mysql.connector.Error as err:
536     print(f"Error: {err}")
537     self.mydb.rollback()
538
539 # Optional: Display an error message to the user
540 messagebox.showerror("Error", f"Error updating data: {err}")
541
542 finally:
543     self.cursor.close()
544
545 def delete_data_payment(self):
546     try:
547         # Deleting data from the table based on Seat
548         sql = "DELETE FROM payment_info WHERE Method_of_Payment=%s AND card_number=%s AND expired_date=%s AND CVV_CVC=%s"
549         val = (self.method_of_payment_combobox.get(), self.card_num_entry.get(), self.expired_date_entry.get(), self.sec_code_entry.get())
550
551         cursor.execute(sql, val)
552         mydb.commit()
553         print("Data deleted successfully!")
554
555         # Optional: Display a message to the user indicating a successful deletion
556         messagebox.showinfo("Success", "Data deleted successfully!")
557
558 except mysql.connector.Error as err:
559     print(f"Error: {err}")
560
561 finally:
562     self.cursor.close()
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554         # Optional: Display a message to the user indicating a successful deletion
555         messagebox.showinfo("Success", "Data deleted successfully!")
556
557     except mysql.connector.Error as err:
558         print(f"Error: {err}")
559         self.mydb.rollback()
560         # Optional: Display an error message to the user
561         messagebox.showerror("Error", f"Error deleting data: {err}")
562
563     finally:
564         self.cursor.close()
565         self.mydb.close()
566
567
568
569
570 # Create an instance of the CINEMANIA class
571 def main():
572     root = tk.Tk()
573     app = CINEMANIA(root)
574     root.mainloop()
575
576 if __name__ == "__main__":
577     main()
578
579 cursor.close()
580 mydb.close()
581
```

Ln 360, Col 13 Spaces: 4 UTF-8 CRLF Python 3.12.0 64-bit

7.0 GRAPHICAL USER INTERFACES (GUI)

7.1 MAIN WINDOW

This interface let user press the button either “MOVIE”, “CUSTOMER” or “PAYMENT”.



7.2 MOVIE

This interface let user decide which movie they want to watch with various type of hall, genre and also the showtime. This interface also include price that based on type of hall.

Movie Details

Movie Table

Movie	Genre	Hall	Showtime	Price
Spider Man 3	Action & Adventure	2D	10AM - 12PM	RM15
Spider Man 3	Action & Adventure	Deluxe	2PM - 4PM	RM20
Spider Man 3	Action & Adventure	IMAX	6PM - 8PM	RM25
Spider Man 3	Action & Adventure	Family Session	8PM - 10PM	RM30
Baymax: The Movie	Action & Comedy	2D	10AM - 12PM	RM15
Baymax: The Movie	Action & Comedy	Deluxe	2PM - 4PM	RM20
Baymax: The Movie	Action & Comedy	IMAX	6PM - 8PM	RM25
Baymax: The Movie	Action & Comedy	Family Session	8PM - 10PM	RM30
Boboiboy The Movie	Action & Comedy	2D	10AM - 12PM	RM15
Boboiboy The Movie	Action & Comedy	Deluxe	2PM - 4PM	RM20
Boboiboy The Movie	Action & Comedy	IMAX	6PM - 8PM	RM25
Boboiboy The Movie	Action & Comedy	Family Session	8PM - 10PM	RM30
The Nun	Horror	2D	10AM - 12PM	RM15
The Nun	Horror	Deluxe	2PM - 4PM	RM20
The Nun	Horror	IMAX	6PM - 8PM	RM25
The Nun	Horror	Family Session	8PM - 10PM	RM30
Titanic	Romance	2D	10AM - 12PM	RM15
Titanic	Romance	Deluxe	2pm - 4PM	RM20
Titanic	Romance	IMAX	6PM - 8PM	RM25
Titanic	Romance	Family Session	8PM - 10PM	RM30

Title

Hall

Showtime

Seat No.

1A
2A
3A
4A
5A
6A
7A
8A
9A
10A

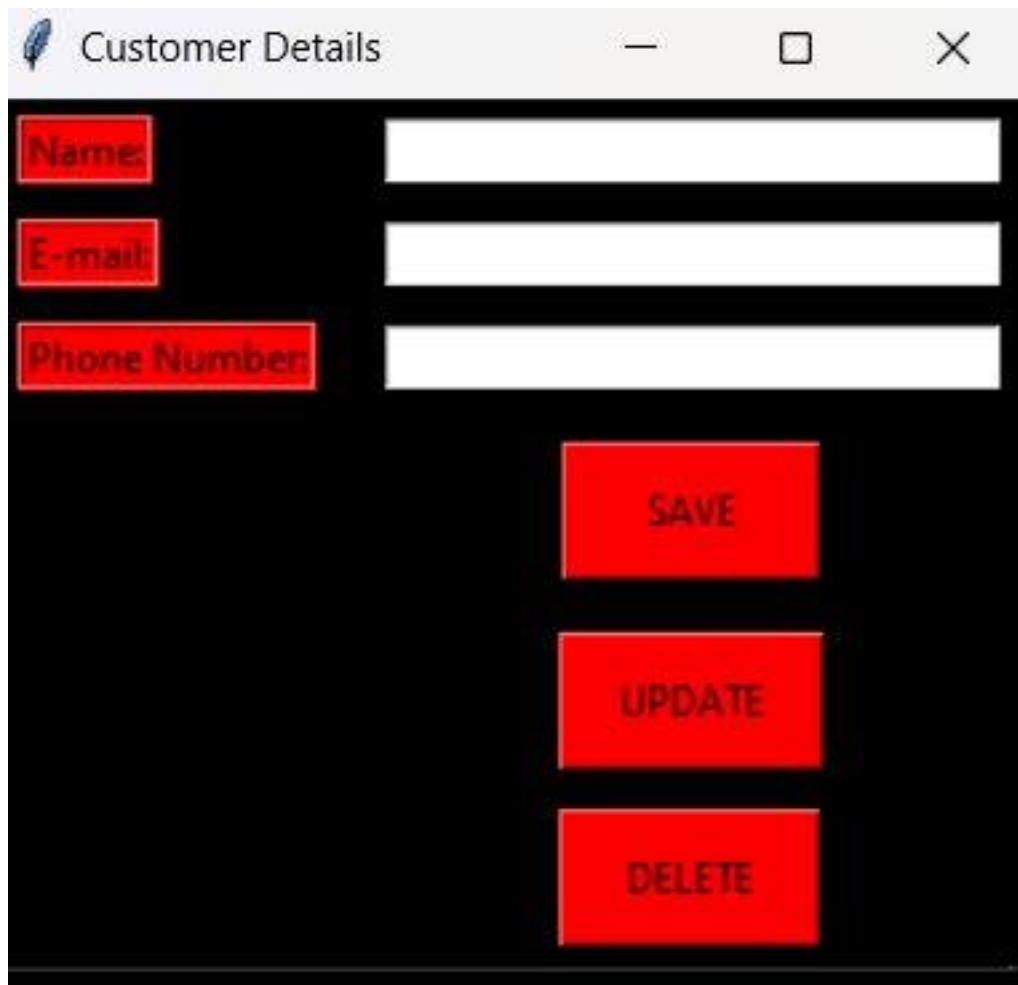
ENTER

UPDATE

DELETE

7.3 CUSTOMER

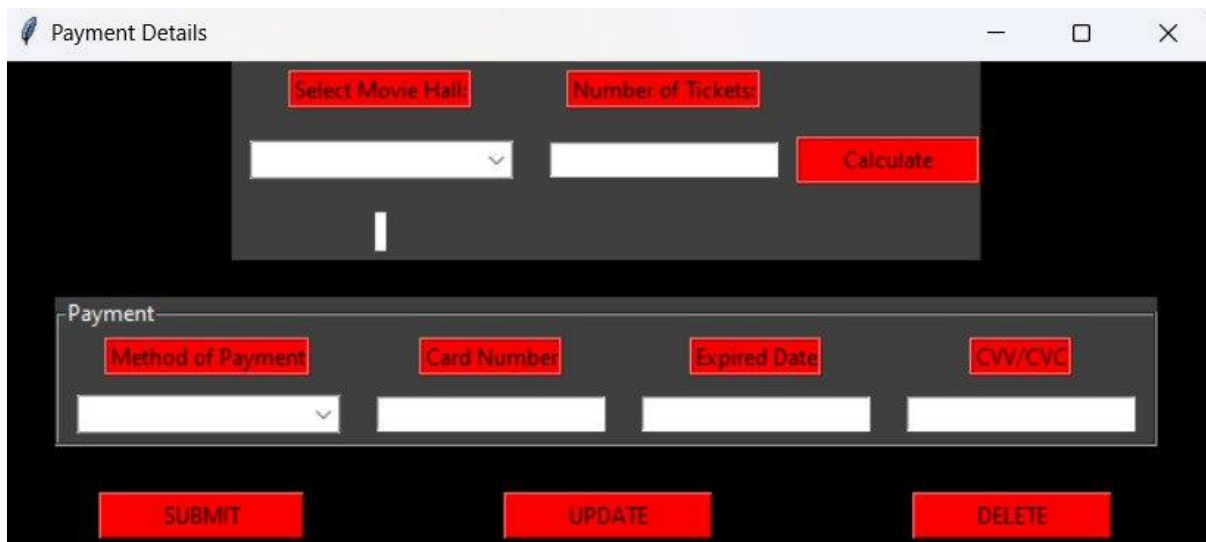
After user already fill in the name, e-mail and phone number box, they can choose either “SAVE”, “UPDATE” OR “DELETE”.



A screenshot of a web application window titled "Customer Details". The window has a light gray title bar with a feather icon on the left and standard minimize, maximize, and close buttons on the right. The main content area has a black background. On the left side, there are three red rectangular labels: "Name:", "E-mail:", and "Phone Number:". To the right of each label is a white text input field. Below these input fields, on the right side of the form, are three red rectangular buttons stacked vertically, labeled "SAVE", "UPDATE", and "DELETE" in white capital letters.

7.4 PAYMENT DETAILS

Users have to select movie hall that they choose earlier and number of tickets if they need the tickets for 3pax and so on. It will calculate the total cost that customer need to pay. And they have to choose the payment methods along with card number, expired date and CVV/CVC.



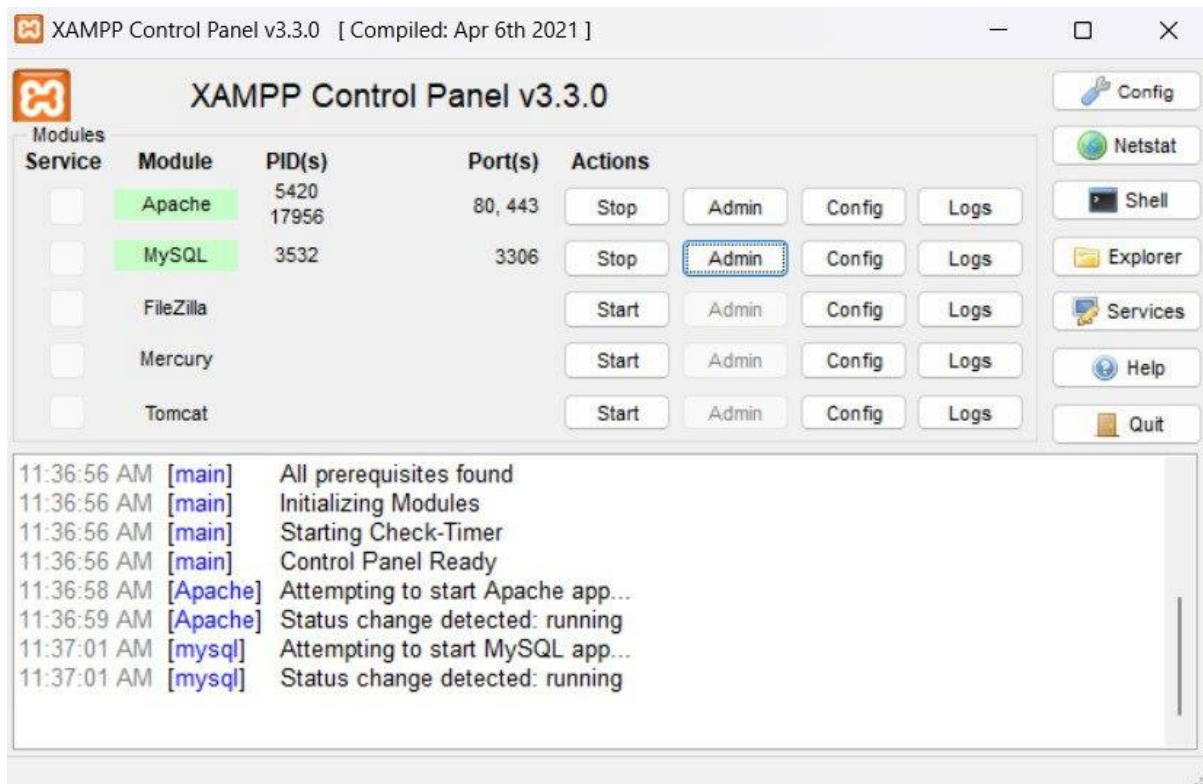
The screenshot shows a web application window titled "Payment Details". The form is divided into two main sections. The top section, labeled "Payment Details", contains two input fields: "Select Movie Hall:" (a dropdown menu) and "Number of Tickets:" (a text input). To the right of these fields is a red "Calculate" button. Below this section is a "Payment" section. It contains four input fields: "Method of Payment" (a dropdown menu), "Card Number" (a text input), "Expired Date" (a text input), and "CVV/CVC" (a text input). At the bottom of the form are three red buttons: "SUBMIT", "UPDATE", and "DELETE".

Payment Details			
Select Movie Hall:	Number of Tickets:		
<input type="text"/>	<input type="text"/>		
<input type="button" value="Calculate"/>			
Payment			
Method of Payment	Card Number	Expired Date	CVV/CVC
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="button" value="SUBMIT"/>		<input type="button" value="UPDATE"/>	<input type="button" value="DELETE"/>

8.0 DATABASE

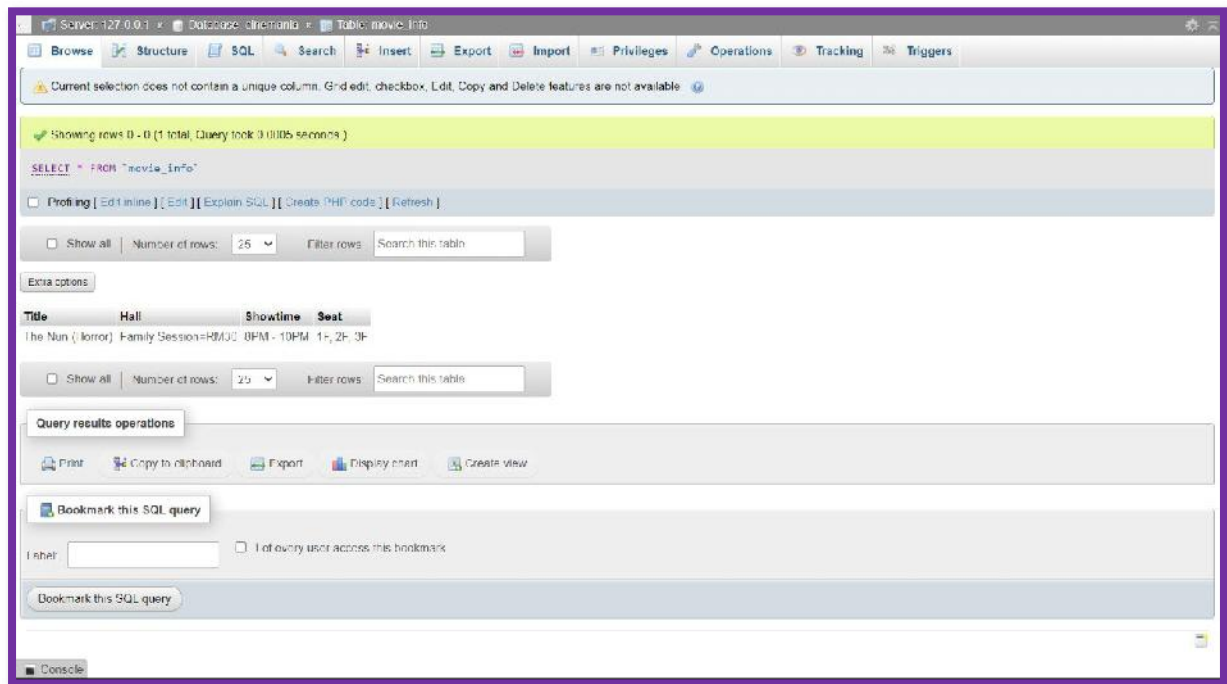
8.1 XAMPP

This part of XAMPP Control Panel, we must to start the Apache and MySQL also with Admin.



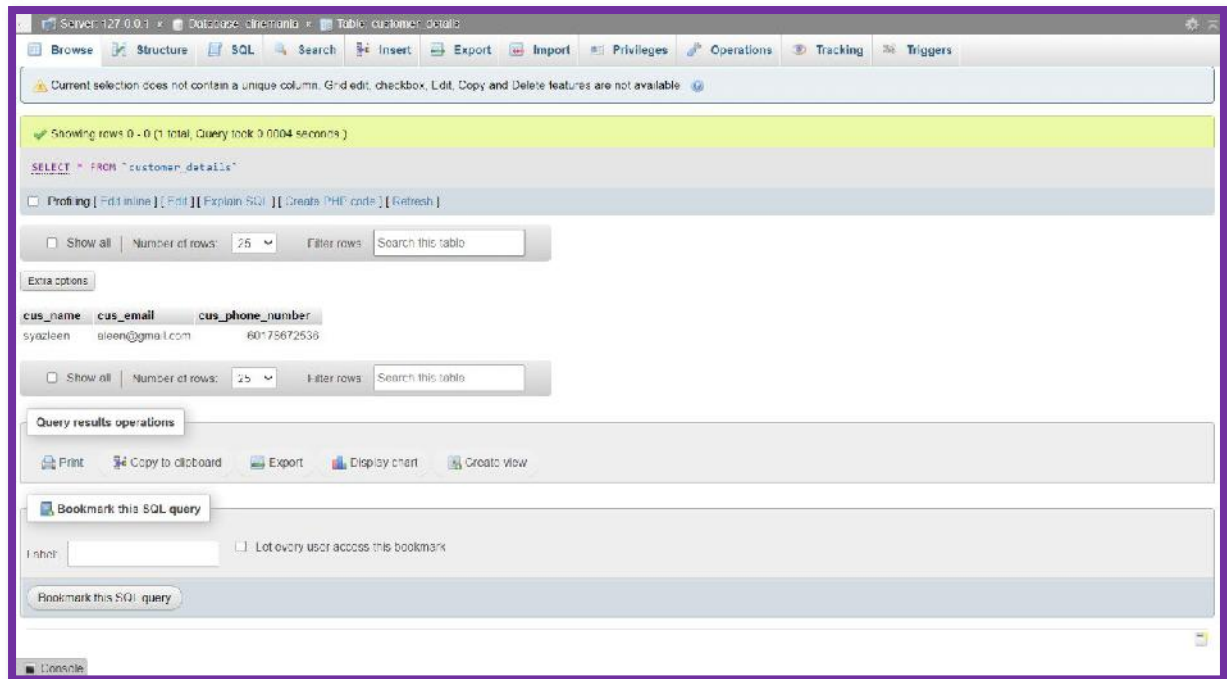
8.2 DATABASE FOR MOVIE

The example of the database that when user key in their data, it will automatically insert here in the “cinemania” database. This is the example when users already choose the title of the movie along with hall, showtime and seat.



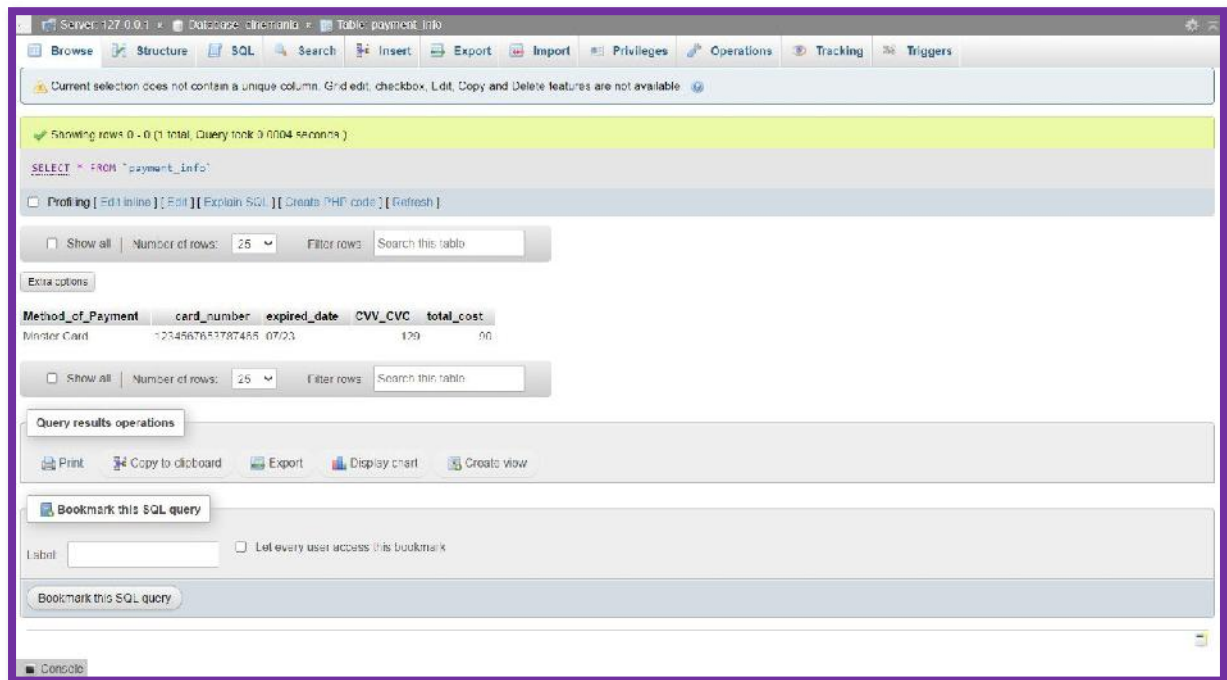
8.3 DATABASE FOR CUSTOMER

This is an example after the users already fill in their name, email and phone number.



8.4 DATABASE FOR METHOD OF PAYMENT

This is an example, if users choose master card for their method of payment and also have the card number, expired date and cvv/cvc. It also has the total cost of payment that users need to pay.



9.0 CONCLUSION

Finally, the Movie Booking System is a well-designed Python software that includes a graphical user interface (GUI) built with Tkinter and is linked to a MySQL database via the MySQL Connector. The system effectively accepts user inputs for user booking data, calculates total costs in real time, and stores the data in a MySQL database table entitled "name Cinemania". To ensure proper data entry into the database, the system performs adequate error handling during database interactions.

System dependability is improved by feedback strategies such as the "Data Entered Successfully" message. This message not only informs users about the successful completion of transactions, but also contributes to the overall dependability of the Movie Booking system.

This project has been a valuable learning experience, providing us with insights into Python coding techniques and best practices. The exploration of various command structures and their integration into the system has expanded our coding proficiency. As we reflect on the development process, it becomes clear that continuous research and exploration are required to stay abreast of the ever-changing programming landscape.

Special thanks to our classmates and our esteemed lecturer, Sir Airul, for his unwavering support and guidance throughout this endeavour; his insights, feedback, and collaborative spirit were instrumental in overcoming obstacles and achieving our goals. As we conclude this project, we carry forward not only a functional Movie Booking System, but also a wealth of knowledge and skills that will undoubtedly benefit our future endeavours in the realm of soft computing.

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