

COLLEGE OF COMPUTING, INFORMATICS, AND MATHEMATICS UNIVERSITI TEKNOLOGI MARA (UITM) CAWANGAN KEDAH DIPLOMA IN LIBRARY INFORMATICS (CDIM144) IML208 PROGRAMMING FOR LIBRARIES

GROUP ASSIGNMENT:

'BABELPAWP' ENTERTAINMENT PURCHASING SYSTEM

PREPARED BY:

NAME	MATRIC NUMBER
ALIA SOFEA BINTI AHMAD FADZLI	2022834288
AMEERA NAFEESA BINTI AZHARI	2022629292
HANI RASYIQAH IRDINA BINTI HASSANAL ZAIRI	2022863864
NURUL SYAKIRAH BINTI ASRIL	2022618038

CLASS: KCDIM1443F

PREPARED FOR:

SIR AIRUL SHAZWAN BIN NORSHAHIMI

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First and foremost, we would like to hand out a heartfelt appreciation to our parents for their unwavering support, understanding, and encouragement throughout this academic endeavor. Their belief in our abilities has been a driving force behind our success.

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1.0 INTRODUCTION

For our final project, we have decided to work on a purchasing system which is also called 'Babelpawp Entertainment Purchasing System'. At Babelbawp, we are powered by cutting-edge technologies, such as XAMPP, Python, Visual Studio Code and GUI using Tkinter.

Python is an interpreted, dynamically semantic high-level object-oriented programming language. It supports multiple programming paradigms, including procedural, object-oriented, and functional programming while XAMPP is a cross-platform web server which helps developers to create and test their programs. Next, Visual Studio code is a free, open-source code editor developed by Microsoft, made for developers for their various programming languages. Lastly, to create a Graphical User Interface (GUI) with Tkinter, utilize the Tkinter library, which is Python's default GUI toolkit. Tkinter also provides a set of tools and widgets for building desktop applications with graphical interfaces.

For Babelpawp, we have created three submodules which are the membership registration submodule, ticketing submodule and fan meeting submodule. Each submodule consists of its own attributes in which the user will input their information into the GUI. We also included Create Read Update and Delete (CRUD) operations in our system and we also have calculations for each submodule. Furthermore, we named our database as 'kpop_site' and our python file as 'babelpawp.py'.

Basically, Babelpawp is targeted towards Malaysian Korean-pop (K-Pop) fans, offering them a secure and enjoyable platform to connect with their favorite artists for their convenience.

2.0 PROBLEM STATEMENT

A number of issues impede the effectiveness of the current ticketing purchase system, leading to a less than ideal user experience and operational setbacks. Users have reported running into issues that range from making mistakes during the transaction process to having trouble navigating the platform. These problems lead to higher support requests, a drop in customer satisfaction, and possible revenue loss. These are some of the key issues of an online ticketing purchase system:

2.1 Restricted platform for ticket purchases

The majority of K-pop fans are facing considerable challenges in securing tickets for their favorite events due to the limited availability of accurate and trustworthy ticketing platforms. The dedicated and passionate fanbase often encounters difficulties in navigating through the existing platforms, resulting in a frustrating and uncertain ticket purchasing experience.

2.2 Scalping and reselling issues

For fans hoping to get into the highly sought-after K-pop events, the secondary ticket market's prevalence of scalping and reselling presents serious obstacles. The situation is made worse by the lack of tickets available on official platforms, which forces fans to turn to unofficial sources. There, they face a variety of problems, such as exorbitant costs and a higher chance of becoming victims of fraud.

2.3 Performance issues

There is more traffic and congestion on the system during peak hours when there is a high demand for tickets. The performance problems are made worse by this increased demand, which delays the processing of user requests and transactions. Not to forget the lag in transaction processing, adds to the delay in the ticket buying process, along with payment authorization and ticket confirmation. Users' satisfaction is delayed as a result, which could result in an unsatisfactory experience all around.

3.0 OBJECTIVES

- 1. To gracefully make the ticketing purchase process quick, efficient, unbiased and easy. This involves cutting down on the number of steps customers must take in order to choose, purchase and receive their tickets.
- 2. To assure that the data entered during the ticketing purchase process is accurate and that the system creates tickets with the correct information, including the date, time, and location.
- 3. To enhance the customer's overall experience by providing users a user-friendly interface, lucid guidelines and prompt customer service. A satisfying encounter can increase client loyalty and satisfaction.

4.0 FLOWCHART

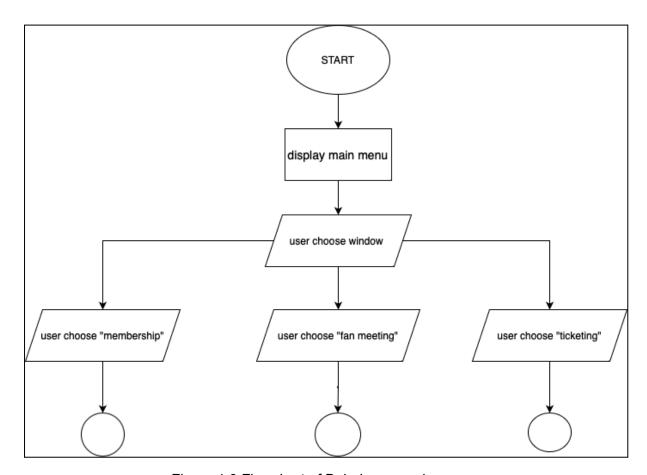


Figure 1.0 Flowchart of Babelpawp main menu

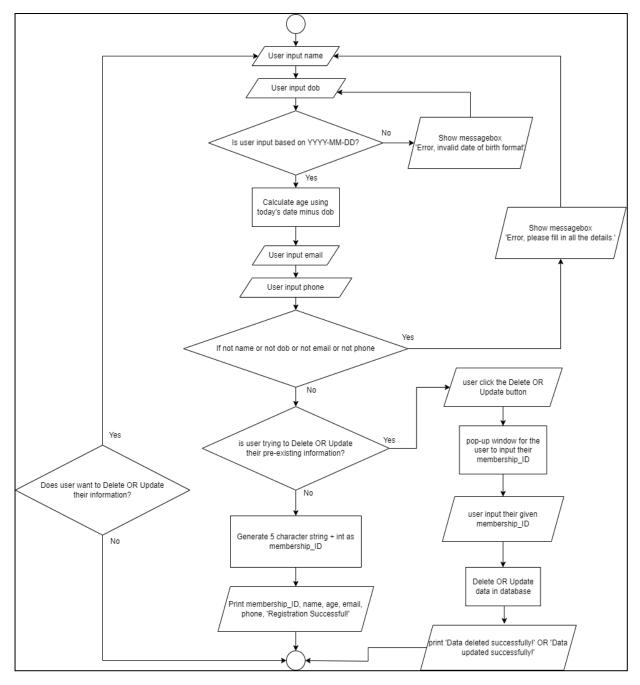


Figure 1.1 Flowchart of the membership window of the GUI

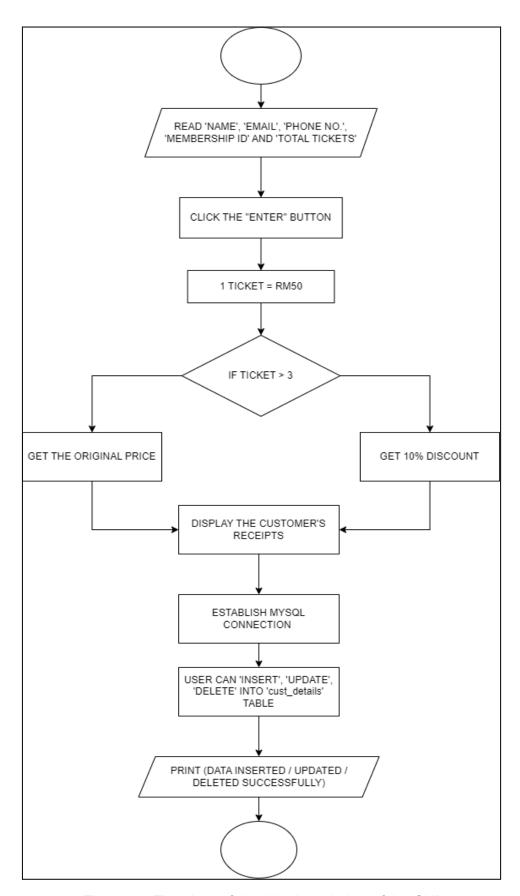


Figure 1.2 Flowchart of the ticketing window of the GUI

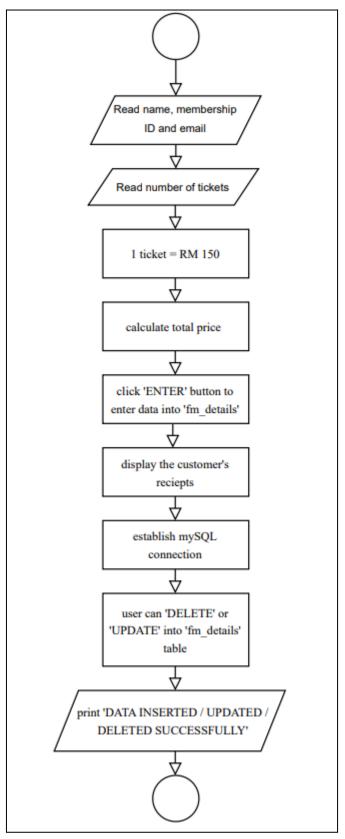


Figure 1.3 Flowchart of the fanmeeting window of the GUI

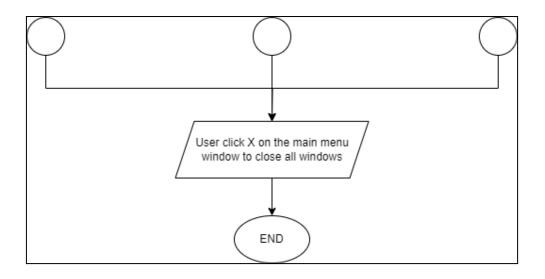


Figure 1.4 End part of Babelpawp flowchart

5.0 SNAPSHOT

5.1 CODING

```
# Description of the Company of Experimental Company of the Compan
```

Figure 2.0 Line 1 to Line 52 of babelpawp.py coding in Visual Studio code

```
of thom_Noinjume(cair):

### State of Comparison of Compar
```

Figure 2.1 Line 53 to Line 128 of babelpawp.py coding in Visual Studio code

```
# Register, update and Deletebutton and grid
registermem_button = tk.Button(RUD_frame, text="Register", command=self.register_member, font=("Times New Roman", 14), bg="#84e0b3", fg="black")
registermem_button.grid(row=5, column=1, pady=10, padx=30, sticky="ew")
updatem_button = tk.Button(RUD_frame, text="Update", command=self.update_member_gui, font=("Times New Roman", 14), bg="#5bc0de", fg="black")
updatem_button.grid(row=5, column=2, pady=10, padx=30, sticky="ew")
deletemem_button = tk.Button(RUD_frame, text="Delete", command=self.delete_member_gui, font=("Times New Roman", 14), bg="#d9534f", fg="white")
deletemem_button.grid(row=5, column=3, pady=10, padx=30, sticky="ew")
            memdisplay_frame = tkt.LabelFrame(registration_window, bg='#e6ffff', bd=5, relief='groove')
memdisplay_frame.pack(ipadx=470)
            self.data\_display\_box = tk.Text(memdisplay\_frame, height=10, width=50) \\ self.data\_display\_box.pack(pady=10)
            self.data_display_box.config(state='disabled')
            # Help, register, and quit button frame
button_frame=tk.labelFrame(registration_window, bg='#e6ffff', bd=5, relief='groove')
            button_frame.pack(ipadx=470)
         # Help and quit button with grid
help_button = tk.8utton(button_frame, text="Help", command=self.show_help_mem, font=("Times New Roman", 14), bg="#5bc0de", fg="black")
help_button.grid(row=5, column=0, pady=10, padx=100, sticky="e")
quit_button = tk.8utton(button_frame, text="back", command=registration_window.destroy, font=("Times New Roman", 14), bg="#d9534f", fg="white")
quit_button.grid(row=5, column=1, pady=10, padx=1, sticky="w")
def register_member(self):
           name_mem = self.name_entry.get()
email_mem = self.email_entry.get()
dob_mem = self.dob_entry.get()
phone_mem = self.phone_entry.get()
            # Validate input
if not name_mem or not dob_mem or not email_mem or not phone_mem:
    messagebox.showerror("Error", "Please fill in all fields.")
           # Check if name contains only alphabetic characters
if not name_mem.replace(" ", "").isalpha():
    messagebox.showerror("Invalid", "Name must contain only alphabetic characters.")
    return
            elif not phone_mem.startswith("60") or not phone_mem[3:].isdigit():

| messagebox.showerror("Invalid", "Phone number must start with '+60' and contain only numeric values.")
           # Check email format using a regular expression

email_pattern = re.compile(r'^[a-zA-Z0-9]+@[a-zA-Z0-9]+\.[a-zA-Z0-9]+$')

if not email_pattern.match(email_mem):

messagebox.showerror("invalid", "Invalid email format. Please use the format xxx@xxx.xxx.")

return
            try:
    dob_date = datetime.strptime(dob_mem, "%Y-%m-%d").date()
    age = (date.today() - dob_date).days // 365
except ValueError:
                         messagebox.showerror("Error", "Invalid Date of Birth format.")
            # Generate a random alphanumeric Member ID
member_ID = ''.join(random.choices(string.ascii_uppercase + string.digits, k=5))
            # Display registration information in a message bo
registration_success_message = f"Registration Success_message = f"Registrati
                     gistration_success_message = f"Registration_Successful!\n\nMember ID: {member_ID}\nName: {name_mem}\nAge: {age}\nEmail: {email_mem}\nPhone: {phone_mem}"
ssagebox.showinfo("Registration_Successful", registration_success_message)
```

Figure 2.2 Line 129 to Line 197 of babelpawp.py coding in Visual Studio code

```
self.data_display_box.config(state='normal')
      self.data_display_box.insert(tk.END, registration_success_message + '\n\n') self.data_display_box.config(state='disabled')
      self.insert_into_database_mem(member_ID, name_mem, dob_mem, age, email_mem, phone_mem)
def insert_into_database_mem(self, member_ID, name_mem, dob_mem, age, email_mem, phone_mem):
            # Establish a connection to the MySQL server
mydb = mysql.connector.connect(
    host="localhost",
                  password="",
database="kpop_site"
            # Create a cursor object to interact with the database cursor = mydb.cursor()
            # Inserting data into a table

sql = "INSERT INTO 'memship_details' (member_ID, user_name, user_dob, user_age, user_email, user_phone) VALUES (%s, %s, %s, %s, %s, %s, %s)"

val = (member_ID, name_mem, dob_mem, age, email_mem, phone_mem)
            cursor.execute(sql, val)
mydb.commit()
print("Data inserted successfully!")
            print(f"Error: {err}")
mydb.rollback()
             cursor.close()
def update_member(self, member_ID):
      new_name = self.name_entry.get()
new_email = self.email_entry.get()
      new_dob = self.dob_entry.get()
new_phone = self.phone_entry.get()
     if not member_ID or not new_name or not new_dob or not new_email or not new_phone:
    messagebox.showerror("Error", "Please fill in all fields.")
      # Check if name contains only alphabetic characters
if not new_name.replace(" ", "").isalpha():
    messagebox.showerror("Invalid", "Name must contains.")
      elif not new_phone.startswith("60") or not new_phone[3:].isdigit():

messagebox.showerror("Invalid", "Phone number must start with '+60' and contain only numeric values.")
     # Check email format using a regular expression
email_pattern = re.compile(r'^[a-zA-Z0-9]+@[a-zA-Z0-9]+\.[a-zA-Z0-9]+$')
if not email_pattern.match(new_email):
    messagebox.showerror("invalid", "Invalid email format. Please use the format xxx@xxx.xxx.")
      new_dob_date = datetime.strptime(new_dob, "%Y-%m-%d").date()
new_age = (date.today() - new_dob_date).days // 365
except ValueError:
                                       error("Error", "Invalid Date of Birth format.")
```

Figure 2.3 Line 198 to Line 267 of babelpawp.py coding in Visual Studio code

```
mydb = mysql.connector.connect(
         user="root",
password="",
database="kpop_site"
    cursor = mydb.cursor()
    # Fetch the updated data from the database
cursor.execute("SELECT * FROM `memship_details` WHERE member_id=%s", (member_ID,))
     updated_member_info = cursor.fetchone()
    # Updating data in the table
sql = "UPDATE `memship_details` SET user_name=%s, user_dob=%s, user_age=%s, user_email=%s, user_phone=%s WHERE member_id=%s"
val = (new_name, new_dob, new_age, new_email, new_phone, member_ID)
         cursor.execute(sql, val)
         mydb.commit()
print("Data updated successfully!")
         # Fetch the updated data from the database
cursor.execute("SELECT * FROM `memship_details` WHERE member_id=%s", (member_ID,))
         updated_member_info = cursor.fetchone()
         print(f"Error: {err}")
mydb.rollback()
         mydb.close()
    messagebox.showinfo("Update Successful", "Member information updated successfully.")
     return updated_member_info
def update member gui(self):
     member_id_to_update = simpledialog.askstring("Update Member", "Enter Member ID to update:")
     if member_id_to_update:
          updated_member_info = self.update_member(member_id_to_update)
          if updated_member_info:
              # Clear existing content in data display box self.data_display_box.config(state='normal')
               self.data_display_box.delete(1.0, tk.END)
               updated_info_mem_str = (
                   f"Updated Member Information:\n\n"
f"Member ID: {updated_member_info[0]}\n"
                    f"Name: {updated_member_info[1]}\n
                     f"Age: {updated_member_info[3]}\n"
                    f"Email: {updated_member_info[4]}\n"
f"Phone: {updated_member_info[5]}"
               self.data_display_box.insert(tk.END, updated_info_mem_str)
self.data_display_box.config(state='disabled')
```

Figure 2.4 Line 268 to Line 336 of babelpawp.py coding in Visual Studio code

```
def delete_member(self, member_ID):
    if not member_ID:
        messagebox.showerror("Error", "Please fill in the Member ID.")
    mydb = mysql.connector.connect(
        host="localhost",
        user="root",
password="",
        database="kpop_site"
    cursor = mydb.cursor()
   # Deleting data from the table
   sql = "DELETE FROM 'memship_details' WHERE member_ID=%s"
    val = (member_ID,)
    try:
        cursor.execute(sql, val)
       mydb.commit()
       print("Data deleted successfully!")
    except mysql.connector.Error as err:
        print(f"Error: {err}")
        mydb.rollback()
    cursor.close()
    mydb.close()
   messagebox.showinfo("Delete Successful", "Member information deleted successfully.")
def delete_member_gui(self):
    member_id_to_delete = simpledialog.askstring("Delete Member", "Enter Member ID to delete:")
    if member_id_to_delete:
        self.delete_member(member_id_to_delete)
        self.data_display_box.config(state='normal')
        self.data_display_box.delete(1.0, tk.END)
self.data_display_box.config(state='disabled')
def quit_application(self):
    self.master.quit()
```

Figure 2.5 Line 337 to Line 386 of babelpawp.py coding in Visual Studio code

```
der abom_balg_tiskt(sizf);

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mat_talk_is = """

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mat_talk_is = ""

mat_talk_is = """

mat_talk_is = ""
```

Figure 2.6 Line 387 to Line 454 of babelpawp.py coding in Visual Studio code

```
# Create button to delete data from the table delete_button = tk.Button(ticket_window, text="DELETE", font=("Times", 10, "bold"), fg='black', bg='lightpink3', padx=40, pady=20, command=self.delete_ticket) delete_button.grid(row=10, column=0,columnspan=2,rowspan=2, pady=5)
        # Help and quit button with grid
help_button = tk.Button(ticket_window, text="Help", command=self.show_help_ticket, font=("Times New Roman", 10), bg="lightpink4", fg="white",padx=11,pady=2)
help_button.grid(row=10,column=2,pady=2)
quit_button = tk.Button(ticket_window, text="Back", command=ticket_window.destroy, font=("Times New Roman", 10), bg="lightpink4", fg="white",padx=10,pady=2)
      # Create billing area
bill_frame = tk.Frame(ticket_window, bd=8, relief='groove')
bill_frame.grid(row=1, column=2, ipadx=8, ipady=14, padx=15, pady=10, rowspan=9)
bill_area_label_tk.label(bill_frame, text='RECEIPTS', font=('Times New Roman', 13, 'bold'), fg='brown')
bill_area_label.grid(row=0, column=0, pady=(0, 5))
self.text_area = tk.Text(bill_frame, width=24, height=13)
self.text_area.grid(row=1, column=0, sticky='ew')
def calculate_total_ticket(self):
        user="root",
password="",
database="kpop_site"
       # Create a cursor object to interact with the database
cursor = mydb.cursor()
       # User input
name_ticket = self.entry_name.get()
email_ticket = self.entry_email.get()
phone_ticket = self.entry_phone.get()
menid_ticket = self.entry_membershipid.get()
numtic_ticket = self.entry_num_tickets.get()
        if not name_ticket or not email_ticket or not phone_ticket or not memid_ticket or not numtic_ticket:
    messagebox.showerror("Error", "Please fill in all fields.")
       # Check if name contains only alphabetic characters
if not name_ticket.replace(" ", "").isalpha():
    messagebox.showerror("Invalid", "Name must contain only alphabetic characters.")
    return
       elif not phone_ticket.startswith("60") or not phone_ticket[3:].isdigit():
    messagebox.showerror("Invalid", "Phone number must start with '+60' and contain only numeric values.")
        # Check email format using a regular expression
email_pattern = re.compile(r'^[a-xA-20-9]**[a-xA-20-9]*\.[a-xA-20-9]*$')
if not email_pattern.match(email_ticket):
    messagebox.showerror("Invalid", "Invalid email format. Please use the format xxx@xxx.xxx.")
               if not num_tickets_str.isdigit():
                         messagebox.showerror("Error", "Please enter a valid number of tickets.")
```

Figure 2.7 Line 455 to Line 520 of babelpawp.py coding in Visual Studio code

```
num_tickets > 0 and num_tickets <= 10:
self.total_cost = self.ticket_price * num_tickets
self.discount_percentage = self.calculate_discount_ticket(num_tickets)
discounted_amount = (self.discount_percentage / 100) * self.total_cost
discounted_cost = self.total_cost - discounted_amount</pre>
                          details_text = f"Name: {self.entry_name.get()}\nEmail: {self.entry_email.get()}\n"
    details_text += f"Phone: {self.entry_phone.get()}\n"embership ID: {self.entry_membershipid.get()}\n"
    details_text += f"Total Tickets: {num_tickets}\n"
    details_text += f"Total Tickets: {num_tickets}\n"
    details_text += f"Total: RM{discounted_cost:.2f}\n"bill_text = details_text
    self.ext_area.insert(tk.END, bill_text)
    self.text_area.configure(state='disabled')
                          m Inserting data into a table
sql = "INSERT INTO 'cust_details' (cust_name, cust_email, cust_phone, membership_id, total_ticket, TOTAL) VALUES (%s, %s, %s, %s, %s, %s)"
val = (self.entry_name.get(), self.entry_email.get(), self.entry_phone.get(), self.entry_nembershipid.get(), self.entry_num_tickets.get(), discounted_cost)
                          try:
    cursor.execute(sql, val)
    mydb.commit()
    print("Data inserted successfully!")
except mysql.connector.Error as err:
    print("Error: (err)")
    mydb.rollback()
e:
                           messagebox.showerror("Error", "Please enter a valid number of tickets (greater than 0 and less than or equal to 10).")
         except ValueError:
| messagebox.showerror("Error", "Please enter valid numeric values.")
                Close the cursor and the connection after finishing all database operations cursor.close() mydb.close()
def calculate_discount_ticket(self, num_tickets):
    if num_tickets >= 3:
        return 10  # 10% discount for 3 or more tickets
# Create a cursor object to interact with the database
cursor = mydb.cursor()
       try:
    new_name = self.entry_name.get()
    new_email = self.entry_email.get()
    new_phone = self.entry_phone.get()
                  # Updating data in the table
sql = "UPDATE 'cust_details' SET cust_name=%s, cust_email=%s WHERE cust_phone=%s"
val = (new_name, new_email, new_phone)
                  cursor.execute(sql, val)
                  mydb.commit()
print("Data updated successfully!")
```

Figure 2.8 Line 521 to Line 587 of babelpawp.py coding in Visual Studio code

```
select_sql = "SELECT * FROM `cust_details` WHERE cust_phone=%s"
        select_val = (new_phone,)
        cursor.execute(select_sql, select_val)
        updated_data = cursor.fetchone()
        if updated_data:
            details_text = f"Name: {updated_data[1]}\nEmail: {updated_data[2]}\n"
            details_text += f"Phone: {updated_data[3]}\nMembership ID: {updated_data[4]}\n"
details_text += f"Total Tickets: {updated_data[5]}\n"
            details_text += f"Cost: RM{updated_data[6]:.2f}\nDiscount: {self.discount_percentage}%\n"
            details_text += f"TOTAL: RM{updated_data[7]:.2f}"
            # Clear the existing content in the billing area and insert the updated data
            self.text_area.configure(state='normal')
            self.text_area.delete(1.0, tk.END)
            self.text_area.insert(tk.END, details_text)
            self.text_area.configure(state='disabled')
            messagebox.showinfo("Success", "Data updated successfully!")
    except mysql.connector.Error as err:
       print(f"Error: {err}")
        mydb.rollback()
        messagebox.showerror("Error", f"Error updating data: {err}")
        # Close the cursor and the connection when the application is closed
        cursor.close()
        mydb.close()
def delete_ticket(self):
   mydb = mysql.connector.connect(
host="localhost",
   user="root",
   password="",
   database="kpop_site"
   cursor = mydb.cursor()
        sql = "DELETE FROM `cust_details` WHERE cust_name=%s"
        val = (self.entry_name.get(),)
       cursor.execute(sql, val)
       mydb.commit()
        print("Data deleted successfully!")
        messagebox.showinfo("Success", "Data deleted successfully!")
    except mysql.connector.Error as err:
       print(f"Error: {err}")
        mydb.rollback()
        messagebox.showerror("Error", f"Error deleting data: {err}")
    cursor.close()
    mydb.close()
```

Figure 2.9 Line 588 to Line 655 of babelpawp.py coding in Visual Studio code

Figure 2.10 Line 656 to Line 719 of babelpawp.py coding in Visual Studio code

```
# Titled momental contingentume describ, from contribute mount, forts('Times have been', 18), bold'), bg-'thirtied', fg- 'augmenta')

# International continues describ, from contribute contribute contribute described and contribute, publics of the contribute of th
```

Figure 2.11 Line 720 to Line 788 of babelpawp.py coding in Visual Studio code

```
# Some would desire a compared compared compared to the compared of the compar
```

Figure 2.12 Line 789 to Line 856 of babelpawp.py coding in Visual Studio code

```
if not fantic_id or not newname_fan or not newmemid_fan or not newemail_fan or not newnumtic_fan:
    messagebox.showerror("Error", "Please fill in all fields.")
 # Check if name contains only alphabetic characters
if not newname_fan.replace(" ", "").isalpha():
    messagebox.showerror("Invalid", "Name must contain only alphabetic characters.")
# Check email format using a regular expression
email_pattern = re.compile(r'^[a-zA-Z0-9]+@[a-zA-Z0-9]+\.[a-zA-Z0-9]+$')
if not email_pattern.match(newemail_fan):
    messagebox.showerror("Invalid", "Invalid email format. Please use the format xxx@xxx.xxx.")
    return
try:
    ticket_price = 150
    newnumtic_fan = int(self.ticket_spinbox.get())
    total_cost = newnumtic_fan * ticket_price
       messagebox.showerror("Error", "Please enter a valid number of tickets.")
mydb = mysql.connector.connect(
    host="localhost",
      user="root",
password="",
database="kpop_site"
cursor = mydb.cursor()
# Fetch the updated data from the database
cursor.execute("SELECT * FROM `fm_details` WHERE Ticket_ID=%s", (fantic_id,))
 updated_fan_info = cursor.fetchone()
 # UPDATE SQL statement

sql = "UPDATE 'fm_details' SET 'Name' = %s, 'Email' = %s, 'Membership_ID' = %s, 'Number_of_Tickets' = %s, 'Total_Cost' = %s WHERE Ticket_ID=%s"

val = (newname_fan, newemail_fan, newmemid_fan, newnumtic_fan, total_cost, fantic_id)
       mydb.commit()
print("Data updated successfully!")
  # Fetch the updated data from the database
cursor.execute("SELECT * FROM 'fm_details' WHERE Ticket_ID=%s", (fantic_id,))
updated_fan_info = cursor.fetchone()
except mysql.connector.Error as err:
    print(f"Error: {err}")
    mydb.rollback()
     cursor.close()
       mydb.close()
 # Display a message to the user indicating a successful update
messagebox.showinfo("Update Successful", "Data updated successfully!")
# Return the updated member information return updated_fan_info
```

Figure 2.13 Line 857 to Line 923 of babelpawp.py coding in Visual Studio code

```
def update_fan_gui(self):
              the user for Ticket ID to update
    fantic_id_to_update = simpledialog.askstring("Update Fan", "Enter Ticket ID to update:")
    if fantic_id_to_update is not None:
        # Call the update_fan method
updated_fan_info = self.update_fan(fantic_id_to_update)
        if updated_fan_info:
            # Clear existing content in data display box
            self.textareafan.config(state='normal')
            self.textareafan.delete(1.0, tk.END)
            updated_fan_info_str = (
                f"Updated Member Information:\n\n"
f"Ticket ID: {updated_fan_info[0]}\n"
                f"Name: {updated_fan_info[1]}\n"
                f"Email: {updated_fan_info[2]}\n"
                f"Member ID: {updated_fan_info[3]}\n"
                f"Number of Tickets: {updated_fan_info[4]}\n"
                 f"Total Cost: {updated_fan_info[5]}'
            self.textareafan.insert(tk.END, updated_fan_info_str)
            self.textareafan.config(state='disabled')
def delete_fan(self, fantic_id):
    # Validate inpu
   if not fantic_id:
        messagebox.showerror("Error", "Please fill in the Ticket ID.")
    mydb = mysql.connector.connect(
       host="localhost",
       user="root",
password="",
        database="kpop_site"
    cursor = mydb.cursor()
        sql = "DELETE FROM fm_details WHERE Ticket_ID=%s"
        val = (fantic_id,)
       cursor.execute(sql, val)
       mydb.commit()
        print("Data deleted successfully!")
        messagebox.showinfo("Success", "Data deleted successfully!")
    except mysql.connector.Error as err:
       print(f"Error: {err}")
        mydb.rollback()
        messagebox.showerror("Error", f"Error deleting data: {err}")
        cursor.close()
        mydb.close()
```

Figure 2.14 Line 924 to Line 992 of babelpawp.py coding in Visual Studio code

```
def delete_fan_gui(self):
               fantic_id_to_delete = simpledialog.askstring("Delete Fan", "Enter Ticket ID to delete:")
               if fantic_id_to_delete:
                   self.delete_fan(fantic_id_to_delete)
                   self.textareafan.config(state='normal')
                   self.textareafan.delete(1.0, tk.END)
                   self.textareafan.config(state='disabled')
           def quit_application(self):
               self.master.quit()
1009
1010
1011
       def main():
           root = tk.Tk()
           app: KpopPurchasingSystem = KpopPurchasingSystem(root)
1014
           app.master.mainloop()
1015
1016
       if __name__ == "__main__":
1017
           main()
```

Figure 2.15 Line 993 to Line 1018 of babelpawp.py coding in Visual Studio code

5.2 GUI

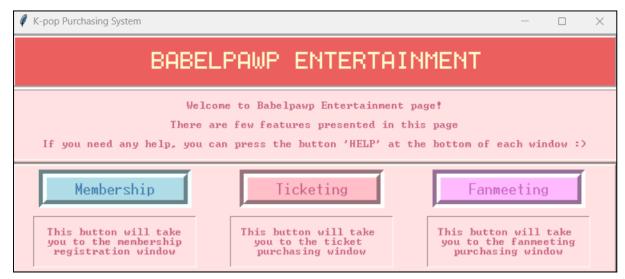


Figure 3.0 Main menu of Babelpawp

Membership Registration	– 🗆 X		
BABELPAWP M	EMBERSHIP		
Name:			
-Email (xxx@xxx.xxx):			
Date of Birth (YYYY-MM-DD):			
Phone number (+60 only):			
Register Upda	Delete		
Help	Back		

Figure 3.1 Membership registration window

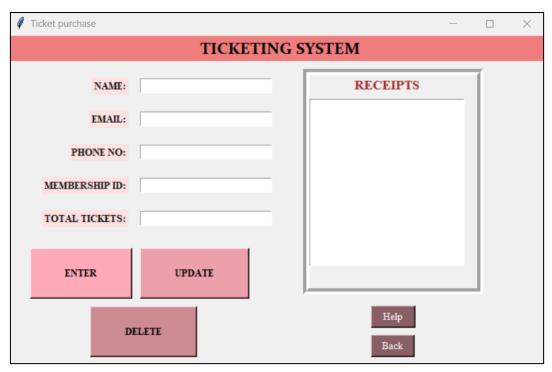


Figure 3.2 Ticketing system window

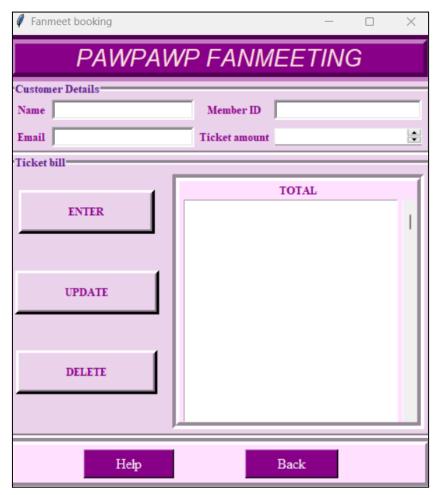


Figure 3.3 Fan Meeting ticket system window

5.3 DATABASE

5.3.1 Database structure



Figure 5.0 'kpop_site' database structure

5.3.2 Table Structure

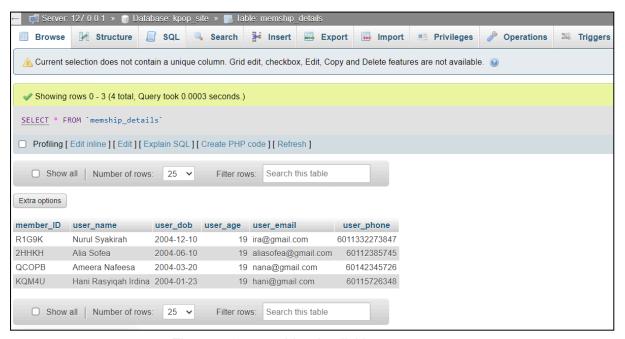


Figure 5.0 'memship details' browse page



Figure 5.1 'memship_details' table structure

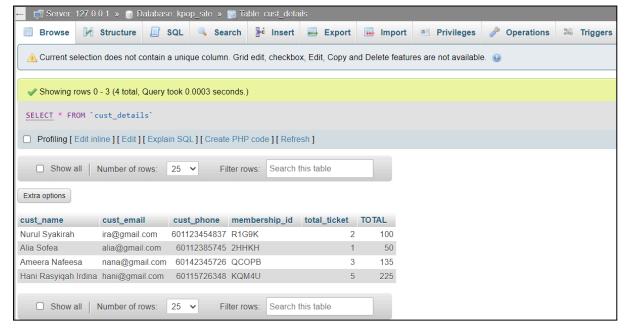


Figure 6.0 'cust_details' browse

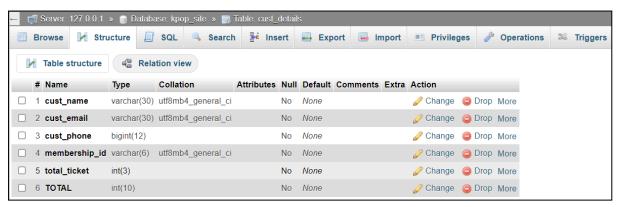


Figure 6.1 'cust_details' table structure

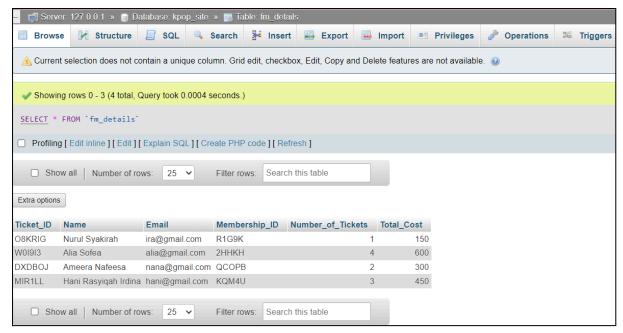


Figure 7.0 'fm_details' browse structure



Figure 7.1 'fm_details' table structure

6.0 CONCLUSION

In summary, Babelpawp is a revolutionary solution for ticketing purchase systems, meeting a wide range of user needs with its cutting-edge features and intuitive interface. The system utilizes Tkinter GUI and phpMyAdmin sharing the same goal which is to provide users with a visual and user-friendly experience.

We created this system in hopes to satisfy users' changing needs in the ever-changing event ticketing market. In addition to streamlining the ticket buying process, the platform has the potential to grow into a reliable resource for fans of all kinds of events as it develops further and takes user feedback into consideration.

Reflecting on this project, we have learned various new things as in how to provide a systematic GUI including how to design it. In addition, we also gained knowledge on how to troubleshoot our coding and acknowledged the technicalities of Create Read Update and Delete operations.



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Name: ALIA SOFEA BINTI AHMAD FADZLI

Matric Number : 2022834288

Course Code : IML208
Programme Code :-



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Name: AMEERA NAFEESA BINTI AZHARI

Matric Number : 2022629292

Course Code : IML208
Programme Code :-



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Name: HANI RASYIQAH IRDINA BINTI HASSANAL ZAIRI

Matric Number: 2022863864

Course Code : IML208
Programme Code :-



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:

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Name: NURUL SYAKIRAH BINTI ASRIL

Matric Number : 2022618038

Course Code : IML208
Programme Code :-