

# SU5 Travel Agency App





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Once again, thank you for your mentorship and for inspiring us to strive for excellence. We are truly grateful for the opportunity to learn from you.

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Thank you for your exceptional teamwork and for making this project a memorable and educational journey. I am proud of what we have achieved together and look forward to any future collaborations.

With sincere and special thanks to -

**Student ID - SSM (14796,15441,15444, 15445,15449 )**

# Introduction

**SU5 Travel Agency Application** is an application platform designed to streamline and enhance the travel booking and management process for travel agents and their customers. These applications typically offer a variety of features to facilitate different aspects of travel planning, booking, and customer service. Here's an overview of what a comprehensive travel agency application include:

## Key Features

### 1. Customers and Booking

- **Flight Reservations:** Integration with global distribution systems (GDS) and airlines for booking flights.
- **Hotel Bookings:** Access to a wide range of hotels, allowing users to compare prices and amenities.
- **Car Rentals:** Options to book rental cars from various providers.
- **Package Deals:** Combination of flights, hotels, and car rentals into travel packages.
- **Cruises and Tours:** Booking options for cruises and guided tours.

### 2. Customer Management with MySQL Database

- **User Profiles:** Store customer information, preferences, and past travel history.
- **Personalized Recommendations:** Suggest travel options based on user preferences and past behavior.
- **Communication Tools:** Email and messaging systems for communicating with clients.
- **Trend Analysis:** Able to tabulate traveling trend analysis based only on the database record.

## Benefits

- **Efficiency:** Automates many aspects of travel planning and booking, saving time for both agents and customers.
- **Accuracy:** Reduces errors in booking and management with automated systems and real-time data.
- **Customer Satisfaction:** Enhances the customer experience with personalized service and streamlined communication.
- **Competitive Edge:** Helps travel agencies remain competitive by offering a wide range of services and modern conveniences.

# System Requirements

- Operating System: Windows 7 or higher
- Python 3.6 or higher
- MySQL Server 5.7 or higher
- Required Python packages: tkinter, PIL (Pillow), mysql-connector-python

## Installation Method

### Step-by-Step Installation Guide

1. **Install Python:** Download and install Python from the official [Python website](#).
2. **Install MySQL Server:** Download and install MySQL Server from the official [MySQL website](#).
3. **Install Required Python Packages:** Open your command prompt and run the following commands:

```
sh

pip install tkinter
pip install Pillow
pip install mysql-connector-python
```

4. **Set Up Database:**
  - Open MySQL Workbench or MySQL command line.
  - Create a new database named ' **SUM5TA** ' :

```
sql

CREATE DATABASE SUM5TA;
```

# Application Overview

The **SU5 Travel Agency Application** allows users to manage customers, trips, and bookings. The main features include adding customers, adding trips, creating bookings, and confirming bookings.

## Using the Application

### Main Page

1. **Start the Application:** Run the `TravelAgencyApp` by executing the `main()` function in the script.
2. **Main Page:** The main page displays a welcome image. Click "Enter" to access the main application tabs.

### Customers Tab

1. **Add Customer:** Fill in the customer's details (Name, Email, Phone, Passport, Address) and click "Add Customer".
2. **Customer List:** View the list of added customers.

### Trips Tab

1. **Add Trip:** Fill in the trip details (Destination, Option, Duration, Price) and click "Add Trip".
2. **Trip List:** View the list of added trips.

### Bookings Tab

1. **Create Booking:**
  - Select a customer from the dropdown.
  - Select a trip from the dropdown.
  - Click "Create Booking" to create the booking.
2. **Confirm Booking:**
  - Select a booking from the list.
  - Click "Confirm Booking" to confirm the booking.

# Imported Files and Functions

The script imports several modules and functions:

1. **tkinter:**

- `tk`
- `ttk`
- `messagebox`

2. **PIL:**

- `Image`
- `ImageTk`

3. **mysql.connector:**

- `connect`
- `Error`



# Database Schema

The database consists of three main tables:

## 1. Customers:

- **id**: INT, AUTO\_INCREMENT, PRIMARY KEY
- **name**: VARCHAR(255), NOT NULL
- **email**: VARCHAR(255), NOT NULL, UNIQUE
- **phone**: VARCHAR(50), NOT NULL
- **passport**: VARCHAR(50), NOT NULL
- **address**: TEXT, NOT NULL

## 2. Trips:

- **id**: INT, AUTO\_INCREMENT, PRIMARY KEY
- **destination**: VARCHAR(255), NOT NULL
- **option**: VARCHAR(255), NOT NULL
- **duration**: INT, NOT NULL
- **price**: FLOAT, NOT NULL

## 3. Bookings:

- **id**: INT, AUTO\_INCREMENT, PRIMARY KEY
- **customer\_id**: INT, NOT NULL, FOREIGN KEY
- **trip\_id**: INT, NOT NULL, FOREIGN KEY
- **status**: VARCHAR(50), DEFAULT 'Not Confirmed'

## Error Handling and Troubleshooting:

- **Database Connection Errors**: Ensure MySQL server is running and credentials are correct.
- **Input Validation Errors**: Ensure all fields are filled in before submitting.
- **Booking Errors**: Ensure valid customers and trips are selected before creating or confirming a booking.

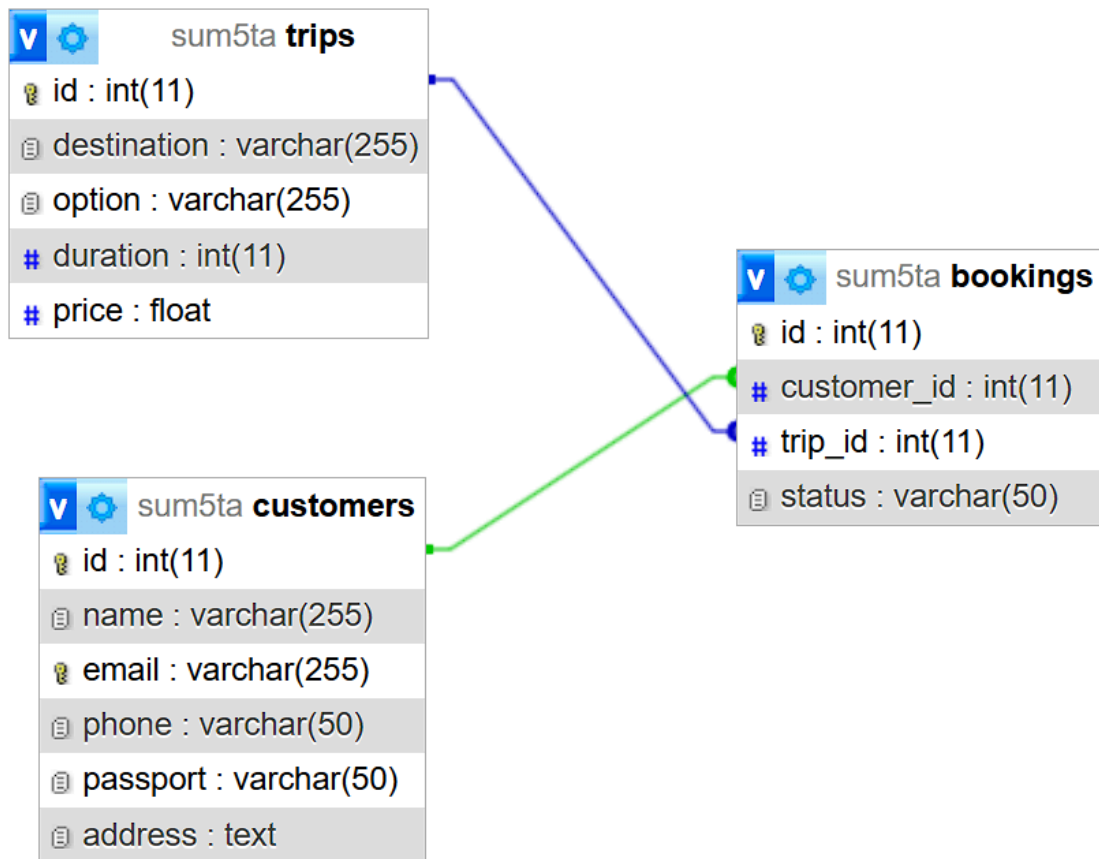
## Contact Information

For further assistance, please contact:

- **Support Telegram**: @Spring , @Sc\_arlet , @Catkilled , @mr\_n0m3rcy , @Anonymous2513
- **Phone**: TBA

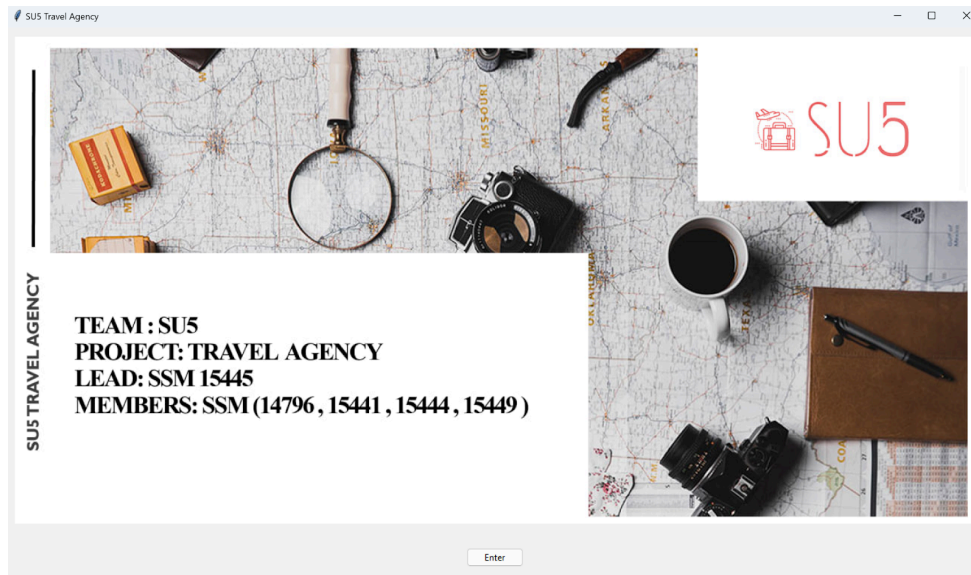


# Database Designer



# User Interface

## Main Page



## Customer Tab

The screenshot shows a web browser window titled "SU5 Travel Age...". The interface has three tabs: "Customers", "Trips", and "Bookings". The "Customers" tab is currently selected. Below the tabs, there are five input fields with labels: "Name:", "Email:", "Phone:", "Passport:", and "Address:". Below these fields is an "Add Customer" button. At the bottom of the form, there is a large empty rectangular box.

## Trips Tab

The screenshot shows the 'SU5 Travel Age...' application window with the 'Trips' tab selected. The interface includes a header with three tabs: 'Customers', 'Trips', and 'Bookings'. Below the tabs, there are four input fields: 'Destination:', 'Option', 'Duration (days):', and 'Price:'. The 'Option' field is a dropdown menu currently showing 'Package Tours'. To the right of the 'Option' field is a small downward arrow icon. Below these fields is an 'Add Trip' button. At the bottom of the form is a large, empty rectangular box for displaying trip details.

SU5 Travel Age... — □ ×

Customers Trips Bookings

Destination:

Option Package Tours ▼

Duration (days):

Price:

Add Trip

## Booking Tab

The screenshot shows the 'SU5 Travel Agency' application window with the 'Bookings' tab selected. The interface includes a header with three tabs: 'Customers', 'Trips', and 'Bookings'. Below the tabs, there are two dropdown menus: 'Customer:' and 'Trip:'. Below these dropdowns is a 'Create Booking' button. At the bottom of the form is a large rectangular box containing a list of bookings: 'Beng Beng - Ok - Confirmed', 'Shwe Loon Aung - Yale - Confirmed', and 'Alien - New York - Confirmed'. At the very bottom of the window is a 'Confirm Booking' button.

SU5 Travel Age... — □ ×

Customers Trips Bookings

Customer:

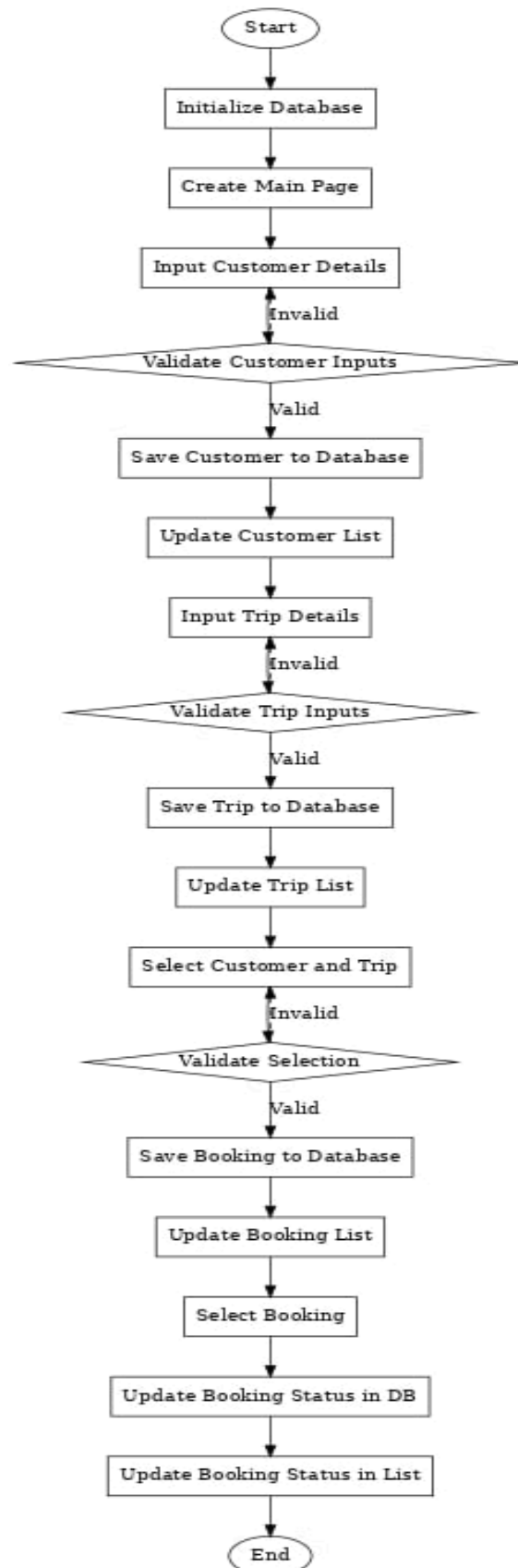
Trip:

Create Booking

Beng Beng - Ok - Confirmed  
Shwe Loon Aung - Yale - Confirmed  
Alien - New York - Confirmed

Confirm Booking

# FlowChart





# Code

Here's the complete code:

```
import tkinter as tk
from tkinter import ttk, messagebox
from PIL import Image, ImageTk
import mysql.connector
from mysql.connector import Error

class Customer:
    def __init__(self, name, email, phone, passport, address):
        self.name = name
        self.email = email
        self.phone = phone
        self.passport = passport
        self.address = address

    def __str__(self):
        return f"Customer(name={self.name}, email={self.email},
phone={self.phone}, passport={self.passport}, address={self.address})"

class Trip:
    def __init__(self, destination, option, duration, price):
        self.destination = destination
        self.option = option
        self.duration = duration
        self.price = price

    def __str__(self):
        return f"Trip(destination={self.destination},
option={self.option}, duration={self.duration} days,
price=${self.price})"

class Booking:
```

```

def __init__(self, customer, trip):
    self.customer = customer
    self.trip = trip

def __str__(self):
    return f"Booking(Customer={self.customer.name},
Trip={self.trip.destination})"

class TravelAgencyApp:

    def __init__(self, root):
        self.root = root
        self.root.title("SU5 Travel Agency")

        self.customers = []
        self.trips = []
        self.bookings = []

        self.database_init()
        self.create_main_page()

    def database_init(self):
        try:
            self.mydb = mysql.connector.connect(
                host='localhost',
                user='root',
                password='',
                database='SUM5TA'
            )

            if self.mydb.is_connected():
                self.cursor = self.mydb.cursor()

                self.cursor.execute('')

```

```

        CREATE TABLE IF NOT EXISTS customers (
            id INT AUTO_INCREMENT PRIMARY KEY,
            name VARCHAR(255) NOT NULL,
            email VARCHAR(255) NOT NULL UNIQUE,
            phone VARCHAR(50) NOT NULL,
            passport VARCHAR(50) NOT NULL,
            address TEXT NOT NULL
        )
    '''

    self.cursor.execute('''
    CREATE TABLE IF NOT EXISTS trips (
        id INT AUTO_INCREMENT PRIMARY KEY,
        destination VARCHAR(255) NOT NULL,
        option VARCHAR(255) NOT NULL,
        duration INT NOT NULL,
        price FLOAT NOT NULL
    )
    ''')

    self.cursor.execute('''
    CREATE TABLE IF NOT EXISTS bookings (
        id INT AUTO_INCREMENT PRIMARY KEY,
        customer_id INT NOT NULL,
        trip_id INT NOT NULL,
        status VARCHAR(50) DEFAULT 'Not Confirmed',
        FOREIGN KEY (customer_id) REFERENCES customers(id),
        FOREIGN KEY (trip_id) REFERENCES trips(id)
    )
    ''')

    self.mydb.commit()
except Error as e:
    print(f"Error: {e}")

```

```

        if self.mydb.is_connected():
            self.mydb.close()

    def create_main_page(self):
        self.main_frame = ttk.Frame(self.root)
        self.main_frame.pack(expand=1, fill='both')
        self.load_image(self.main_frame)
        enter_button = ttk.Button(self.main_frame, text="Enter",
command=self.create_widgets)
        enter_button.pack(pady=20)

    def load_image(self, frame):
        # Path to the image file
        image_path = "C:/Users/leish/OneDrive/Desktop/SUM_Python/SU5
Cover Page.jpg"
        try:
            # Load the image using PIL
            image = Image.open(image_path)
            photo = ImageTk.PhotoImage(image)

            # Create a label widget to display the image
            image_label = tk.Label(frame, image=photo)
            image_label.image = photo # Keep a reference to avoid
garbage collection
            image_label.pack(padx=10, pady=10)
        except IOError:
            print(f"Unable to load image at path: {image_path}")

    def create_widgets(self):
        self.main_frame.destroy() # Remove the main frame

        self.tab_control = ttk.Notebook(self.root) # Changed to
self.tab_control

```



```

self.customer_tab = ttk.Frame(self.tab_control)
self.trip_tab = ttk.Frame(self.tab_control)
self.booking_tab = ttk.Frame(self.tab_control)

self.tab_control.add(self.customer_tab, text='Customers')
self.tab_control.add(self.trip_tab, text='Trips')
self.tab_control.add(self.booking_tab, text='Bookings')

self.tab_control.pack(expand=1, fill='both')

self.create_customer_tab()
self.create_trip_tab()
self.create_booking_tab()

def create_customer_tab(self):
    ttk.Label(self.customer_tab, text="Name:").grid(column=0, row=0,
padx=10, pady=10)
    self.customer_name = ttk.Entry(self.customer_tab)
    self.customer_name.grid(column=1, row=0, padx=10, pady=10)

    ttk.Label(self.customer_tab, text="Email:").grid(column=0,
row=1, padx=10, pady=10)
    self.customer_email = ttk.Entry(self.customer_tab)
    self.customer_email.grid(column=1, row=1, padx=10, pady=10)

    ttk.Label(self.customer_tab, text="Phone:").grid(column=0,
row=2, padx=10, pady=10)
    self.customer_phone = ttk.Entry(self.customer_tab)
    self.customer_phone.grid(column=1, row=2, padx=10, pady=10)

    ttk.Label(self.customer_tab, text="Passport:").grid(column=0,
row=3, padx=10, pady=10)
    self.customer_passport = ttk.Entry(self.customer_tab)
    self.customer_passport.grid(column=1, row=3, padx=10, pady=10)

```

```

        ttk.Label(self.customer_tab, text="Address:").grid(column=0,
row=4, padx=10, pady=10)
        self.customer_address = ttk.Entry(self.customer_tab)
        self.customer_address.grid(column=1, row=4, padx=10, pady=10)

        ttk.Button(self.customer_tab, text="Add Customer",
command=self.add_customer).grid(column=1, row=5, padx=10, pady=10)

        self.customer_list = tk.Listbox(self.customer_tab)
        self.customer_list.grid(column=0, row=6, columnspan=2, padx=10,
pady=10, sticky='nsew')

        self.customer_tab.grid_columnconfigure(0, weight=1)
        self.customer_tab.grid_columnconfigure(1, weight=1)
        self.customer_tab.grid_rowconfigure(6, weight=1)

    def create_trip_tab(self):
        ttk.Label(self.trip_tab, text="Destination:").grid(column=0,
row=0, padx=10, pady=10)
        self.trip_destination = ttk.Entry(self.trip_tab)
        self.trip_destination.grid(column=1, row=0, padx=10, pady=10)

        ttk.Label(self.trip_tab, text="Option").grid(column=0, row=1,
padx=10, pady=10)
        self.option_var = tk.StringVar(value="Select an option")
        options = ["Bus Express ", "Package Tours", "Cruises", "Flight
Ticket", "Hotel", "Trekking"]
        self.trip_option = ttk.OptionMenu(self.trip_tab,
self.option_var, *options)
        self.trip_option.grid(column=1, row=1, padx=10, pady=10)

        ttk.Label(self.trip_tab, text="Duration (days):").grid(column=0,
row=3, padx=10, pady=10)

```

```

self.trip_duration = ttk.Entry(self.trip_tab)
self.trip_duration.grid(column=1, row=3, padx=10, pady=10)

    ttk.Label(self.trip_tab, text="Price:").grid(column=0, row=4,
padx=10, pady=10)
    self.trip_price = ttk.Entry(self.trip_tab)
    self.trip_price.grid(column=1, row=4, padx=10, pady=10)

    ttk.Button(self.trip_tab, text="Add Trip",
command=self.add_trip).grid(column=1, row=5, padx=10, pady=10)

    self.trip_list = tk.Listbox(self.trip_tab)
    self.trip_list.grid(column=0, row=6, columnspan=2, padx=10,
pady=10, sticky='nsew')

    self.trip_tab.grid_columnconfigure(0, weight=1)
    self.trip_tab.grid_columnconfigure(1, weight=1)
    self.trip_tab.grid_rowconfigure(6, weight=1)

def create_booking_tab(self):
    #Create Custome label adn combobox
    ttk.Label(self.booking_tab, text="Customer:").grid(column=0,
row=0, padx=10, pady=10)
    self.booking_customer = ttk.Combobox(self.booking_tab)
    self.booking_customer.grid(column=1, row=0, padx=10, pady=10)

    #Create Trip laabel and cobobox
    ttk.Label(self.booking_tab, text="Trip:").grid(column=0, row=1,
padx=10, pady=10)
    self.booking_trip = ttk.Combobox(self.booking_tab)
    self.booking_trip.grid(column=1, row=1, padx=10, pady=10)

    #Create - Create Booking button
    ttk.Button(self.booking_tab, text="Create Booking",

```

```

command=self.create_booking).grid(column=1, row=2, padx=10, pady=10)

    #Create Booking list
    self.booking_list = tk.Listbox(self.booking_tab)
    self.booking_list.grid(column=0, row=3, columnspan=2, padx=10,
pady=10, sticky='nsew')

    #Create Confirm Booking button
    ttk.Button(self.booking_tab, text="Confirm Booking",
command=self.confirm_booking).grid(column=1, row=4, padx=10, pady=10)

    #Create grid weights for responsiveness
    self.booking_tab.grid_columnconfigure(0, weight=1)
    self.booking_tab.grid_columnconfigure(1, weight=1)
    self.booking_tab.grid_rowconfigure(3, weight=1)

    #Load initial booking data
    self.load_booking_data()

def on_tab_selected(self, event):
    selected_tab = event.widget.tab('current')['text']
    if selected_tab == 'Bookings':
        self.load_booking_data()

def load_booking_data(self):
    # Load customers from the database
    trip_destinations = []
    try:
        self.cursor.execute('SELECT * FROM customers')
        customer_rows = self.cursor.fetchall()
        for customer_row in customer_rows: #
structure(self.customers) = [Customer, Customer]
            self.customers.append(Customer(name=customer_row[1],
email=customer_row[2], phone=customer_row[3], passport=customer_row[4],

```



```

address=customer_row[5]))
        customer_names = [customer.name for customer in
self.customers] # Assuming name is the second element
        self.booking_customer['values'] = customer_names
    except Exception as e:
        print(f"Error loading customers: {e}")

    # Load trips from the database

    try:
        self.cursor.execute('SELECT * FROM trips')
        trip_rows = self.cursor.fetchall()
        for row in trip_rows:
            self.trips.append(Trip(row[1], row[2], row[3], row[4]))
            trip_destinations.append(row[1]) # Assuming destination
is the second element
        self.booking_trip['values'] = trip_destinations
    except Exception as e:
        print(f"Error loading trips: {e}")

    # Clear and reload the bookings list
    self.booking_list.delete(0, tk.END)
    try:
        self.cursor.execute('''
SELECT c.name, t.destination, b.status
FROM bookings b
JOIN customers c ON b.customer_id = c.id
JOIN trips t ON b.trip_id = t.id
''')
        booking_rows = self.cursor.fetchall()
        self.bookings = [list(row) for row in booking_rows] # Store
as array (list of lists)
        for booking in self.bookings:
            booking_info = f"{booking[0]} - {booking[1]} -

```

```

{booking[2]}" # Format booking info
        self.booking_list.insert(tk.END, booking_info)
    except Exception as e:
        print(f"Error loading bookings: {e}")

def add_customer(self):
    name = self.customer_name.get()
    email = self.customer_email.get()
    phone = self.customer_phone.get()
    passport = self.customer_passport.get()
    address = self.customer_address.get()

    if name and email and phone and passport and address:
        customer = Customer(name, email, phone, passport, address)
        self.customers.append(customer)

        #insert into table
        try:
            self.cursor.execute('''
            INSERT INTO customers (name, email, phone, passport,
address)

            VALUES (%s, %s, %s, %s, %s)
            ''', (name, email, phone, passport, address))
            self.mydb.commit()
            print(f"- Customer Added : {name}, {passport}.")
        except Error as e:
            print(f"Error: {e}")

        self.customer_list.insert(tk.END, str(customer))
        self.booking_customer['values'] = [customer.name for
customer in self.customers]
        self.customer_name.delete(0, tk.END)
        self.customer_email.delete(0, tk.END)
        self.customer_phone.delete(0, tk.END)

```

```

        self.customer_passport.delete(0, tk.END)
        self.customer_address.delete(0, tk.END)

        # Move to the next tab
        self.tab_control.select(self.trip_tab)
    else:
        messagebox.showwarning("Input Error", "Please fill all
fields")

    def add_trip(self):
        destination = self.trip_destination.get()
        option = self.option_var.get()
        duration = self.trip_duration.get()
        price = self.trip_price.get()

        if destination and duration and price and option != "Select an
option":
            trip = Trip(destination, option, int(duration),
float(price))
            self.trips.append(trip)

            #insert into table
            try:
                self.cursor.execute('''
                INSERT INTO trips (destination, option, duration, price)
                VALUES (%s, %s, %s, %s)
                ''', (destination, option, duration, price))
                self.mydb.commit()
                print(f"- Trip Added : {destination}, {price}.")
            except Error as e:
                print(f"Error: {e}")
            self.trip_list.insert(tk.END, str(trip))
            self.booking_trip['values'] = [trip.destination for trip in
self.trips]

```

```

        self.trip_destination.delete(0, tk.END)
        self.trip_duration.delete(0, tk.END)
        self.trip_price.delete(0, tk.END)

        # Move to the next tab
        self.tab_control.select(self.booking_tab)
    else:
        messagebox.showwarning("Input Error", "Please fill all
fields")

    def create_booking(self):
        customer_name = self.booking_customer.get()
        trip_destination = self.booking_trip.get()
        customer = next((c for c in self.customers if c.name ==
customer_name), None)
        trip = next((t for t in self.trips if t.destination ==
trip_destination), None)
        if customer and trip:
            #print(customer_name, trip_destination)
            booking = Booking(customer, trip)
            self.bookings.append(booking)

        try:
            self.cursor.execute('''
INSERT INTO bookings (customer_id, trip_id, status)
VALUES (
            (SELECT id FROM customers WHERE name = %s),
            (SELECT id FROM trips WHERE destination = %s),
            'Not Confirmed'
        )
            ''', (customer_name, trip_destination))
            self.mydb.commit()
            print(f"- Booking created: {customer_name},
{trip_destination}.")

```



```

        except Error as e:
            print(f"Error: {e}")

        self.booking_list.insert(tk.END, f"{str(booking)} - Not
Confirmed")
    else:
        messagebox.showwarning("Input Error", "Please select valid
customer and trip")

def confirm_booking(self):
    try:
        selected_index = self.booking_list.curselection()[0]
        selected_booking = self.bookings[selected_index]
        self.cursor.execute('''
SELECT id FROM bookings WHERE customer_id = (SELECT id FROM
customers WHERE name = %s)
AND trip_id = (SELECT id FROM trips WHERE destination = %s)
''', (selected_booking.customer.name,
selected_booking.trip.destination))
        result = self.cursor.fetchone()

        if result is None:
            raise ValueError("Booking not found in the database")

        booking_id= result[0]

        self.cursor.execute('''
UPDATE bookings SET status = 'Confirmed' WHERE id = %s
''', (booking_id,))
        self.mydb.commit()

        # Update the display in the listbox
        self.booking_list.delete(selected_index)

```

```

        self.booking_list.insert(selected_index,
f"{str(selected_booking)} - Confirmed")

        self.show_booking_confirmation(selected_booking)
        print(f"- Booking confirmed:
{selected_booking.customer.name}, {selected_booking.trip.destination}.")
    except IndexError:
        messagebox.showwarning("Selection Error", "Please select a
booking to confirm")

    def show_booking_confirmation(self, booking):
        customer_info = f"Customer: {booking.customer.name}, Email:
{booking.customer.email}, Phone: {booking.customer.phone}, Passport:
{booking.customer.passport}, Address: {booking.customer.address}"
        trip_info = f"Trip: {booking.trip.destination}, Option:
{booking.trip.option}, Duration: {booking.trip.duration} days, Price:
${booking.trip.price}"

        confirmation_message = f"Booking
Confirmed!\n\n{customer_info}\n{trip_info}"
        messagebox.showinfo("Booking Confirmation",
confirmation_message)
        confirmation_window = tk.Toplevel(self.root)
        confirmation_window.title("Booking Confirmation")

        tk.Label(confirmation_window, text=confirmation_message,
padx=20, pady=20).pack()
        ttk.Button(confirmation_window, text="Confirm", command=lambda:
self.close_confirmation_window(confirmation_window)).pack(pady=10)

    def close_confirmation_window(self, window):
        window.destroy()
        self.reset_main_page()

```

```
def reset_main_page(self):  
    self.tab_control.destroy()  
    self.create_main_page()  
  
def main():  
    root = tk.Tk()  
    app = TravelAgencyApp(root)  
    root.mainloop()  
  
if __name__ == "__main__":  
    main()
```