

FULL STACK DEVELOPER

MINI PROJECT IN PYTHON

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PROJECT TITLE SHEET

AIRLINE TICKETS BOOKING:

Project Report Submitted

*In partial fulfillment of the requirement for the proficient certificate
course*

Done By
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PROJECT OBJECTIVE

In Python, airline ticket booking and cancellation can be handled with a class. The AirlineTicketBooking class includes methods like book_ticket, which takes passenger details, flight information, and payment data to generate a unique ticket ID and store the booking in a dictionary. The cancel_ticket method allows a user to cancel a booking by changing its status to "canceled" using the ticket ID. This approach provides a simple structure for managing airline reservations, enabling easy extension or integration with larger systems

HARDWARE AND SOFTWARE REQUIREMENTS:

HARDWARE :

✓ Device name	: ASUS
✓ Processor	:AMD Ryzen 5 5600H with Radeon Graphics
✓ Installed RAM	: 8.00 GB (7.40 GB usable)
✓ Device ID	:5795131D-6FF7-4593-8E53-5F093C77C644
✓ Product ID	:00342-42640-84714-AAOEM
✓ System type	: 64-bit operating system, x64-based processor
✓ Pen and touch	: No pen or touch input is available for this display

SOFTWARE:

- ✓PYCHARM
- ✓PYTHON



SOURCE CODE:

```
flights = {
    "CHE-KPM": {"price": 3000, "seats": 5},
    "CHI-ERD": {"price": 2000, "seats": 3},
    "MUM-PUMO": {"price": 1500, "seats": 2}
}

def display_flights():
    print("Available flights:")
    for route, details in flights.items():
        print(f"{route} - {details['price']} ({details['seats']} seats available)")

def book_ticket(route):
    if flights[route]["seats"] > 0:
        flights[route]["seats"] -= 1
        print(f"Booking confirmed for {route}.")
        print(f"Price: {flights[route]['price']}")
    else:
        print(f"Sorry, no seats available on {route}.")

def cancel_ticket(route):
    flights[route]["seats"] += 1
    print(f"Booking canceled for {route}. Seats available: {flights[route]['seats']}.")
```

```
def main():  
    while True:  
        print("\nMenu:")  
        print("WELCOME TO VASA AIRLINE")  
        print("1. AVAILABLE FLIGHTS")  
        print("2. FLIGHT TICKETS BOOK")  
        print("3. CANCEL A TICKET")  
        print("4. EXIT")  
  
        choice = input("Choose an option (1-4): ").strip()  
  
        if choice == "1":  
            display_flights()  
        elif choice == "2":  
            route = input("Enter the flight route you want to book (e.g.,  
CHE-KPM): ").strip()  
            if route in flights:  
                book_ticket(route)  
            else:  
                print("Invalid route selected.")  
        elif choice == "3":
```

```
route = input("Enter the flight route you want to cancel (e.g., CHE-
KPM): ").strip()

    if route in flights:
        cancel_ticket(route)
    else:
        print("Invalid route selected.")

elif choice == "4":
    print("Thank you for using the airline booking system.
Goodbye!")
    break
else:
    print("Invalid choice. Please select a valid option.")

if __name__ == "__main__":
    main()
```

=====

COMPLETE THE PROGRAM

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OUTPUT:

AVAILABLE FLIGHTS:

```
Menu:
WELCOME TO VASA AIRLINE
1. AVAILABLE FLIGHTS
2. FLIGHT TICKETS BOOK
3. CANCEL A TICKET
4. EXIT
Choose an option (1-4): 1
Available flights:
CHE-KPM - 3000 (5 seats available)
CHI-ERD - 2000 (3 seats available)
MUM-PUM0 - 1500 (2 seats available)

Menu:
WELCOME TO VASA AIRLINE
1. AVAILABLE FLIGHTS
2. FLIGHT TICKETS BOOK
3. CANCEL A TICKET
4. EXIT
Choose an option (1-4): |
```

OUTPUT:

FLIGHT TICKETS BOOKING:

```
Menu:
WELCOME TO VASA AIRLINE
1. AVAILABLE FLIGHTS
2. FLIGHT TICKETS BOOK
3. CANCEL A TICKET
4. EXIT
Choose an option (1-4): 2
Enter the flight route you want to book (e.g., CHE-KPM): CHI-ERD
Booking confirmed for CHI-ERD.
Price: 2000

Menu:
WELCOME TO VASA AIRLINE
1. AVAILABLE FLIGHTS
2. FLIGHT TICKETS BOOK
3. CANCEL A TICKET
4. EXIT
Choose an option (1-4):
```

OUTPUT:

TICKETS CANCEL:

```
Menu:
WELCOME TO VASA AIRLINE
1. AVAILABLE FLIGHTS
2. FLIGHT TICKETS BOOK
3. CANCEL A TICKET
4. EXIT
Choose an option (1-4): 2
Enter the flight route you want to book (e.g., CHE-KPM): CHI-ERD
Booking confirmed for CHI-ERD.
Price: 2000

Menu:
WELCOME TO VASA AIRLINE
1. AVAILABLE FLIGHTS
2. FLIGHT TICKETS BOOK
3. CANCEL A TICKET
4. EXIT
Choose an option (1-4): 3
Enter the flight route you want to cancel (e.g., CHE-KPM): CHI-ERD
Booking canceled for CHI-ERD. Seats available: 3.

Menu:
WELCOME TO VASA AIRLINE
1. AVAILABLE FLIGHTS
2. FLIGHT TICKETS BOOK
3. CANCEL A TICKET
4. EXIT
Choose an option (1-4):
```