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<https://github.com/aalbrechtsen0125/Airline-System.git>

To view video click link and navigate to demo branch and download mp4 file

Airline Booking System

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Product Overview

The airline booking system will address airline needs by allowing them to add and delete flights. The system will also allow for customers to book flights based on availability as well as allow for customers to input payment information in order to pay for the flight.

System Capabilities



```
Call Stack  Output - AirlineFlights (run) X
> run:
  Flight details:
  Date: 2024-01-01
  Arrival time: 10:00
  Departure time: 12:00
  First class capacity: 50
  Business class capacity: 100
  Economy class capacity: 200

  Flight details:
  Date: 2024-01-02
  Arrival time: 14:00
  Departure time: 16:00
  First class capacity: 30
  Business class capacity: 80
  Economy class capacity: 150

  Number of flights: 2
  BUILD SUCCESSFUL (total time: 0 seconds)
```

This system will allow for the airline to add flights and their details including arrival and departure times, dates, and class capacities.

The snapshot to the left displays how the system accomplishes this. The system is very effective because airlines can easily add/remove flights.

This system also allows for the customer to be able to book flights based on the flights added by the airline, and the system will allow the user to pick that flight if it is available or display that

it isn't available. The system will also allow for the customer to choose the class, and it will assign them a seat if the class is available to be booked. Below are snapshots of how the system will work.

```

Call Stack  Output - AirlineReservationSystem (run) #3 x
run:
Welcome to the Airline Reservation System
1. Flight 1
2. Flight 2
3. Flight 3
4. Exit
Enter your choice: 1
Flight 1 - Choose your class:
1. First Class
2. Business Class
3. Economy Class
4. Go back to flight selection
Enter your choice: 1
Seat booked successfully. Your seat number is 1
Flight 1 - Choose your class:
1. First Class
2. Business Class
3. Economy Class
4. Go back to flight selection
Enter your choice: 4
Welcome to the Airline Reservation System
1. Flight 1
2. Flight 2
3. Flight 3
4. Exit
Enter your choice: 4
Thank you for using the Airline Reservation System. Goodbye!
BUILD SUCCESSFUL (total time: 22 seconds)

```

```

Call Stack  Output - PaymentForFlight (run) x
run:
Enter card number: 12345678901234567
Enter expiration date (MMYY): 0123
Enter CVC: 345
Invalid card number
BUILD SUCCESSFUL (total time: 37 seconds)

```

Diagram and Use

The image displays how the system starts from the customer needing to reserve a booking on a flight to the end goal of having a booking reserved. This system is very Simple for the customer to use and it also provide exit options at each step that make it easier for the customer to go back in the event that they make a mistake.

