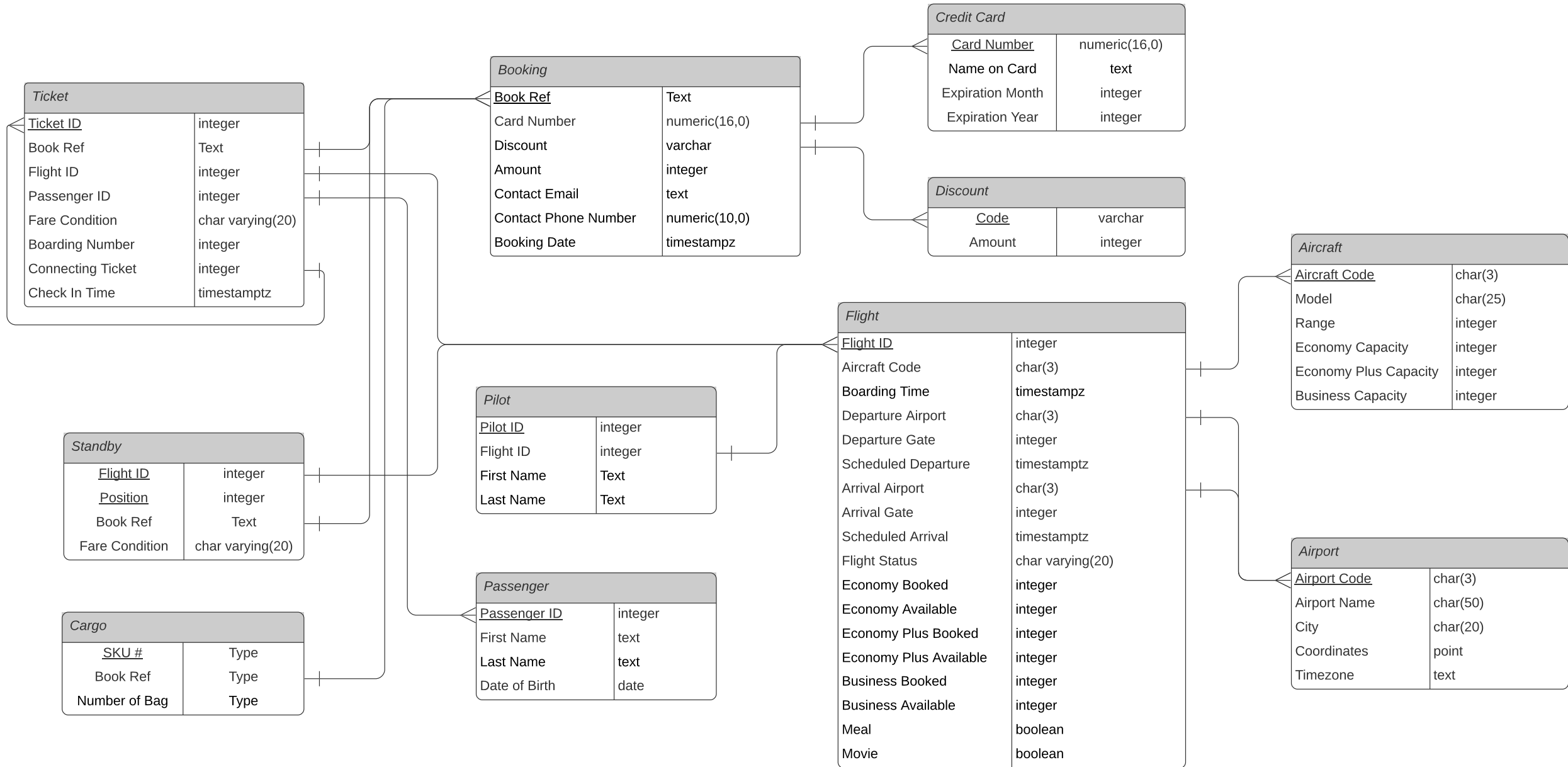
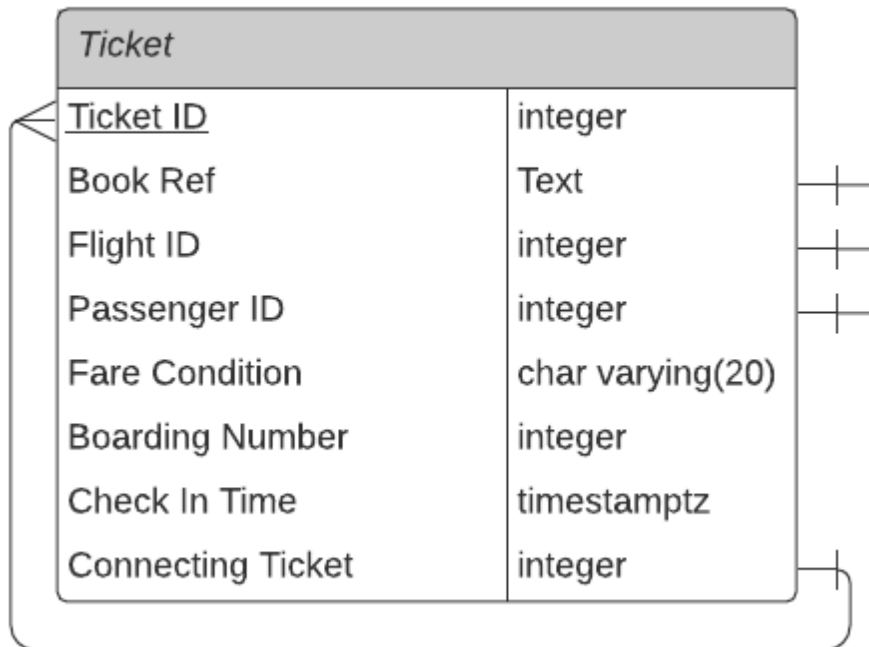


COSC3380 HW4 ER Diagram



Ticket Relation



Serial Primary Key: ticket_id

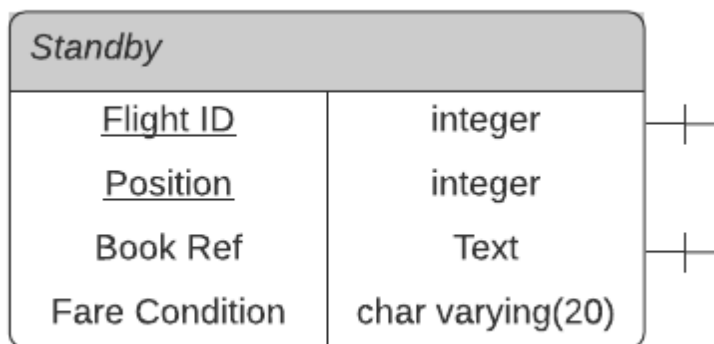
Foreign Key: book_ref - referencing booking(book_ref)

Foreign Key: flight_id - referencing flight(id)

Foreign Key: passenger_id - referencing passenger(id)

Foreign Key: connecting_ticket - referencing ticket(id)

Standby Relation



Composite Primary Key: (flight_id, position)

Foreign Key: flight_id - referencing flight(id)

Foreign Key: book_ref - referencing booking(book_ref)

Cargo Relation

Cargo	
<u>SKU #</u>	Type
Book Ref	Type
Number of Bag	Type

Serial Primary Key: stock_keeping_no

Foreign Key: book_ref - referencing booking(book_ref)

Booking Relation

Booking	
<u>Book Ref</u>	Text
Card Number	numeric(16,0)
Discount	varchar
Amount	integer
Contact Email	text
Contact Phone Number	numeric(10,0)
Booking Date	timestampz

Primary Key: book_ref

Foreign Key: card_number - referencing credit_card(card_number)

Foreign Key: discount - referencing discount(discount_code)

Pilot Relation

<i>Pilot</i>	
<u>Pilot ID</u>	integer
Flight ID	integer
First Name	Text
Last Name	Text

Serial Primary Key: pilot_id

Foreign Key: flight_id - referencing flight(id)

Passenger Relation

<i>Passenger</i>	
<u>Passenger ID</u>	integer
First Name	text
Last Name	text
Date of Birth	date

Serial Primary Key: passenger_id

Credit Card Relation

<i>Credit Card</i>	
<u>Card Number</u>	numeric(16,0)
Name on Card	text
Expiration Month	integer
Expiration Year	integer

Primary Key: card_number

Flight Relation

<i>Flight</i>	
<u>Flight ID</u>	integer
Aircraft Code	char(3)
Boarding Time	timestampz
Departure Airport	char(3)
Departure Gate	integer
Scheduled Departure	timestampz
Arrival Airport	char(3)
Arrival Gate	integer
Scheduled Arrival	timestampz
Flight Status	char varying(20)
Economy Booked	integer
Economy Available	integer
Economy Plus Booked	integer
Economy Plus Available	integer
Business Booked	integer
Business Available	integer
Meal	boolean
Movie	boolean

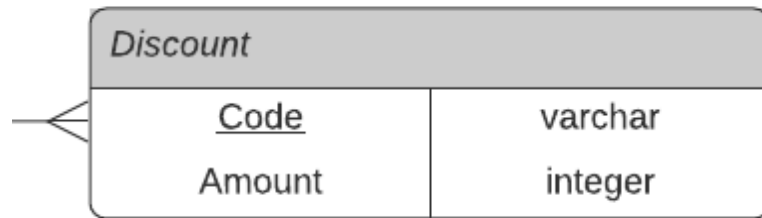
Primary Key: flight_id

Foreign Key: aircraft_code - referencing aircraft(aircraft_code)

Foreign Key: departure_airport - referencing airport(airport_code)

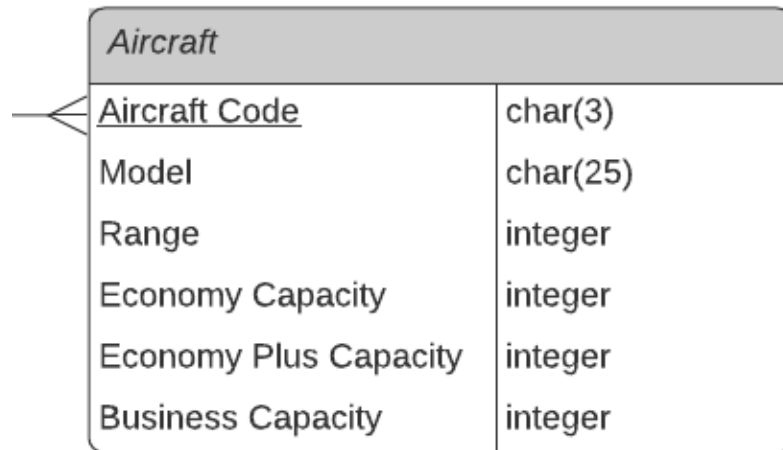
Foreign Key: arrival_airport - referencing airport(airport_code)

Discount Relation



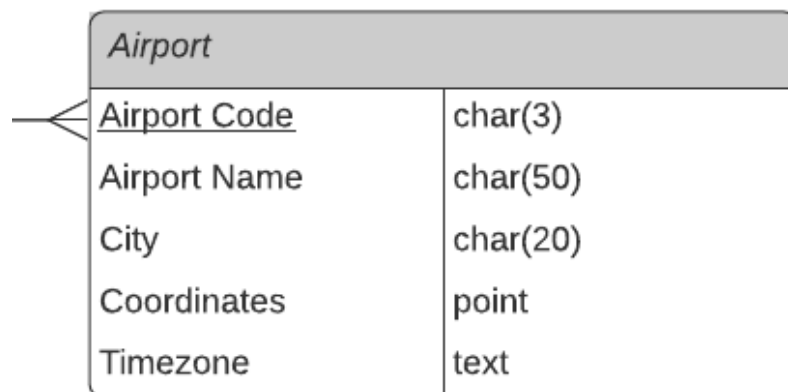
Primary Key: code

Aircraft Relation



Primary Key: aircraft_code

Airport Relation

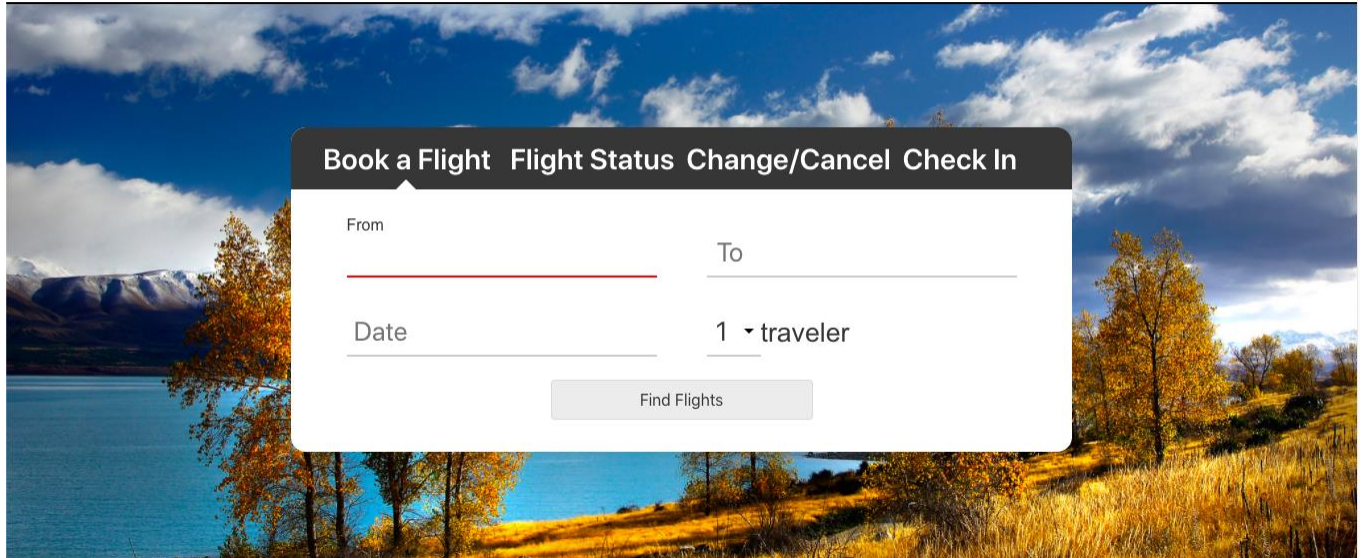


Primary Key: airport_code

Project Description

airlineweb.html

Panda Airways ABOUT BOOKINGS ADMIN CONTROLS



The main web page features a scenic background image of a lake and mountains. Overlaid on this is a dark grey navigation bar with the 'Panda Airways' logo and links for 'ABOUT', 'BOOKINGS', and 'ADMIN CONTROLS'. Below the navigation bar is a white booking form with a dark grey header containing the options: 'Book a Flight', 'Flight Status', 'Change/Cancel', and 'Check In'. The form includes input fields for 'From', 'To', and 'Date', a dropdown for the number of travelers (currently set to '1'), and a 'Find Flights' button.

This is our main web page, with option to Book a Flight, check Flight Status, Change/Cancel a flight, and Check In

Booking

Panda Airways ABOUT BOOKINGS ADMIN CONTROLS

Depart: DFW ✈️ JFK 12/11/2020
Dallas to New York

Departing	Arriving	Stops	Duration	Economy	Economy Plus	Business
4:00AM	6:00AM	Nonstop	2h 0m	\$358	\$700	\$1042
4:00AM	6:00AM	Nonstop	2h 0m	\$358	\$700	\$1042
5:00AM	7:00AM	Nonstop	2h 0m	\$343	\$685	\$1027
5:00AM	7:00AM	Nonstop	2h 0m	\$343	\$685	\$1027
6:00AM	8:00AM	Nonstop	2h 0m	\$330	\$672	\$1014
6:00AM	8:00AM	Nonstop	2h 0m	\$330	\$672	\$1014

After choosing the starting city/airport, destination, date, and the number of travelers/tickets you want to purchase, a list of available flight will load up with three different booking option: Economy, Economy Plus, and Business.

PandaAirways
ABOUT
BOOKINGS
ADMIN CONTROLS

Price Details

☒ Price
☐ Payment
☐ Confirm

Flight Info

Fri 12/11 **DFW → JFK** 2h 0m | Nonstop Economy Plus

4:00AM 6:00AM

Price per Passenger	\$700.82
Taxes and Fees per Passenger	\$57.82
Total per Passenger	\$758.64
Passengers	x2
Flight Total	\$1517.28

For your safety, middle seats will stay open through January 21, 2021 to promote physical distancing onboard.

BAG FEE	\$0.00
SUBTOTAL	\$1401.64
TAXES & FEES	\$115.64
TRIP TOTAL	\$1517.28

Continue

A summary of the price will show you the total cost including taxes and expenses.

PandaAirways
ABOUT
BOOKINGS
ADMIN CONTROLS

Flight Info

Fri 12/11 **DFW → JFK** 2h 0m | Nonstop Economy Plus

4:00AM 6:00AM

Price per Passenger	\$701.38
Taxes and Fees per Passenger	\$57.86
Total per Passenger	\$759.24
Passengers	x2
Flight Total	\$1518.48

Passenger Information

Please make sure names match government-issued IDs.

Passenger 1

FIRST NAME * LAST NAME * DATE OF BIRTH *

Month DD YYYY

Passenger 2

FIRST NAME * LAST NAME * DATE OF BIRTH *

Month DD YYYY

The information page will load up, here you will have to fill in your personal information such as first and last name, date of birth, also the contact and credit card information.

Check Flight Status

PandaAirways ABOUT BOOKINGS ADMIN CONTROLS

Book a Flight Flight Status Change/Cancel Check In

From _____ To _____

Date _____ Flight Number _____

Check Status

The main page will ask you to fill all the necessary information in order to perform a search for your flight

Change Flight

PandaAirways ABOUT BOOKINGS ADMIN CONTROLS

Book a Flight Flight Status Change/Cancel Check In

Booking Number _____

☐ CHANGE
☐ CANCEL

Search

Fill in your booking number to search and change your flight

PandaAirways

ABOUT

BOOKINGS

ADMIN CONTROLS

Change Flight

Change

Flight

Price

Confirm

Current Flight Info

Fri 12/11

DFW → MCO

8:00AM

10:00AM

2h 0m

Nonstop

Economy

Price per Passenger

\$313.18

Taxes and Fees per Passenger

\$25.84

Total per Passenger

\$339.02

Passengers

x1

Flight Total

\$339.02

New Flight

FROM *

TO *

DATE *

Continue

Here you can choose the new starting city/airport, destination, and the date of your new flight

PandaAirways

ABOUT

BOOKINGS

ADMIN CONTROLS

Price Reconcile

Change

Flight

Price

Confirm

Current Flight Info

Fri 12/11

DFW → MCO

8:00AM

10:00AM

2h 0m

Nonstop

Economy

Price per Passenger

\$295.10

Taxes and Fees per Passenger

\$26.54

Total per Passenger

\$321.64

Passengers

x1

Flight Total

\$321.64

New Flight Info

Fri 12/11

SEA → JFK

5:00AM

7:00AM

2h 0m

Nonstop

Economy Plus

Price per Passenger

\$690.40

Taxes and Fees per Passenger

\$56.96

Total per Passenger

\$747.36

Passengers

x1

Flight Total

\$747.36

Cancel Flight

PandaAirways

ABOUTBOOKINGSADMIN CONTROLS

Cancel Flight

Passengers

Price

Confirm

Flight Info

Fri 12/11

DFW → JFK

4:00AM6:00AM

2h 0m | Nonstop

Economy Plus

Price per Passenger\$697.77

Taxes and Fees per Passenger\$62.74

Total per Passenger\$760.51

Passengersx2

Flight Total\$1521.02

Passengers to Cancel

☐

☐

Continue

With the booking number entered, a list of passengers with that booking number will appear, you can choose which passenger to cancel the ticket.

PandaAirways

ABOUTBOOKINGSADMIN CONTROLS

Flight Price

Passengers

Price

Confirm

Flight Info

Fri 12/11

DFW → JFK

4:00AM6:00AM

2h 0m | Nonstop

Economy Plus

Price per Passenger\$697.77

Taxes and Fees per Passenger\$62.74

Total per Passenger\$760.51

Passengersx2

Flight Total\$1521.02

↔

For your safety, middle seats will stay open through January 21, 2021 to promote physical distancing onboard.

NEW PASSENGER COUNTx1

PRICE DIFFERENCE\$760.51

NEW TOTAL\$760.51

A total of \$760.51 will be refunded to card ending in xxxxxxxxxxxx7548.

PandaAirways

ABOUT

BOOKINGS

ADMIN CONTROLS

Cancellation Successful

Passengers

Price

Confirm

Flight Info

Fri 12/11

DFW → JFK

4:00AM6:00AM

2h 0m

Nonstop

Economy Plus

Price per Passenger\$348.88

Taxes and Fees per Passenger\$31.37

Total per Passenger\$380.25

Passengersx1

Flight Total\$760.51

Thank you for flying Panda Airways. Your flight has been changed.

Please plan to arrive at the airport **at least one hour** before your flight's departure time. This was allow ample time to check in to your flight, check any bags, and pass through security.

Passenger Info

Payment Info

Admin Controls

PandaAirways

ABOUT

BOOKINGS

ADMIN CONTROLS

View Flight Information

Flight ID

View

Standby

View

Passenger ID

First Name

Last Name

Populate Database

Add

random bookings to the database.

Here you can monitor all the available flight, and passenger through their ID and add random booking into the database.