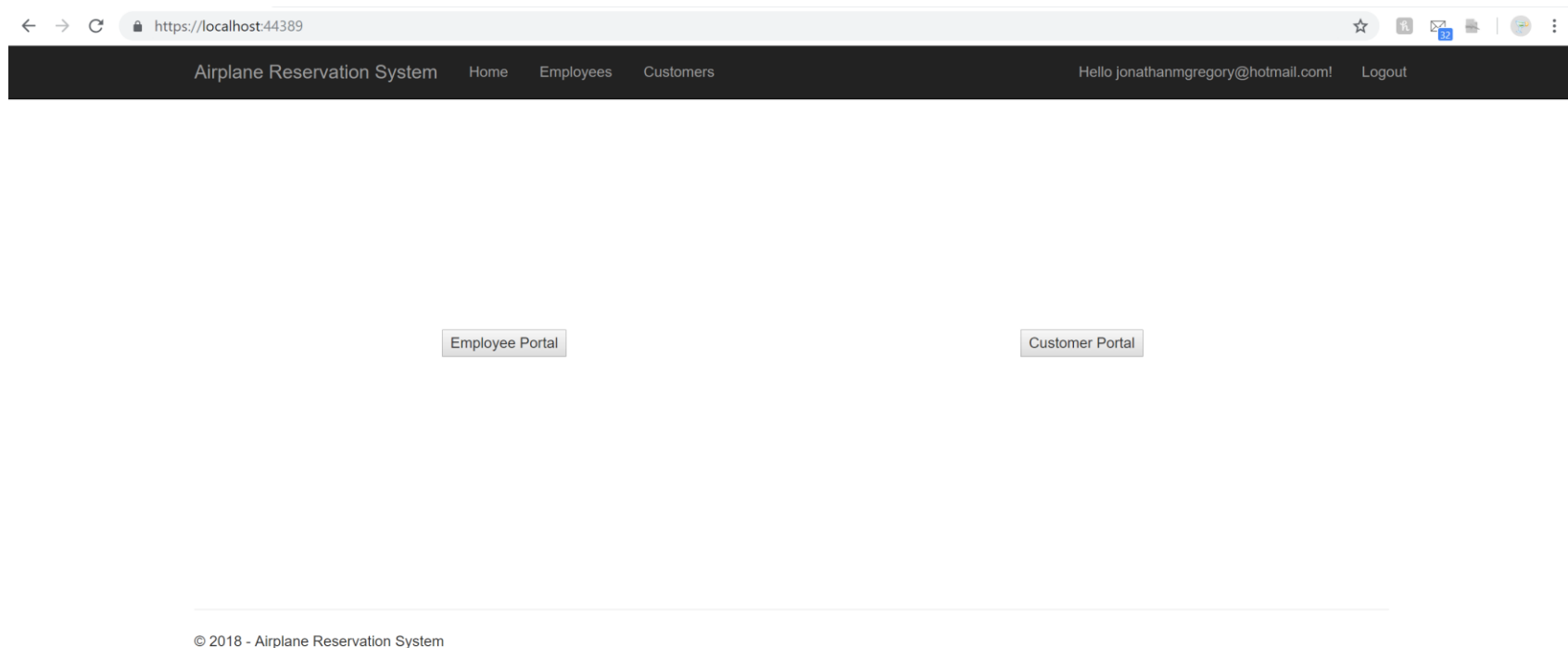


This is the final solution for the Airline Reservation System. To run the application, open the WebApplication44.sln in Visual Studios. The test database is hosed on Microsoft Azure so there is no need to adjust the database settings.

Inside the SQL folder you can find all the queries used to create the database along with a relational schema diagram.

Features:

The system must be able to handle two types of users: Customers and Administrators.



There is also a login feature that is not currently associated to the customer/administrator portals at this time.

This administrator can edit, view details, delete and create new flights.

← → ↻ https://localhost:44389/Flights? ☆ 📧 📄 🌐 ⋮

Airplane Reservation System Home Employees Customers Register Login

Administrator

Depart Arrive
All ▾ All ▾ Filter

Create New

Airport Departure	Airport Arrival	Time Departure	Time Arrival	Capacity First- Class	Capacity Economy	Price First- Class	Price Economy	
FNL	MQY	12/1/2018 6:10:00 PM	12/2/2018 4:48:00 AM	5	50	736.63	63.08	Edit Details Delete
BJI	MKG	12/4/2018 2:31:00 PM	12/5/2018 12:56:00 AM	20	161	856.35	89.33	Edit Details Delete

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The admin can create new flights here. The airports must be one of the 3 letter airport codes or it will fail. These can be found online or in the SQL folder.

← → ↻ https://localhost:44389/Flights/Create ☆ 📄 📧 32 🖨️ 🌐

Airplane Reservation System Home Employees Customers Register Login

Create

Flight

Capacity First-Class

Capacity Economy

Price First-Class

Price Economy

Time Departure

Time Arrival

Airport Departure

Airport Arrival

Create

[Back to List](#)

There is a trigger on the Flight table that automatically creates all the seats every time a new flight is added.

← → ↻ https://localhost:44389/Flights/Create ☆ 36

Airplane Reservation System Home Employees Customers Register Login

Create

Flight

Capacity First-Class

Capacity Economy

Price First-Class

Price Economy

Time Departure

Time Arrival

Airport Departure

Airport Arrival

Create

[Back to List](#)

Limits:

First class capacity min: 5 max: 30

Economy capacity min :50 max: 300






Price first class min: 300 max: 1000

Price economy min: 50 max: 300

Time departure: must be before time arrival

Airports: must be the 3 character code

Customers can choose the customer portal to view flights

← → ↻ <https://localhost:44389/Flights/CustomerIndex> ☆     

Airplane Reservation System

Home Employees Customers

Register Login

Reserve Flights

Depart Arrive

All ▾ All ▾

Airport Departure	Airport Arrival	Time Departure	Time Arrival	Price First-Class	Price Economy	
FNL	MQY	12/1/2018 6:10:00 PM	12/2/2018 4:48:00 AM	736.63	63.08	Select
BJI	MKG	12/4/2018 2:31:00 PM	12/5/2018 12:56:00 AM	856.35	89.33	Select
MCI	LAX	1/1/2019 1:01:00 AM	1/1/2019 5:00:00 AM	500.00	100.00	Select

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They can select the desired flight to view the details

[←](#) [→](#) [↻](#) <https://localhost:44389/Flights/CustomerDetails?id=1008>

[Airplane Reservation System](#) [Home](#) [Employees](#) [Customers](#)

Flight Details

Flight

Capacity First-Class	5
Capacity Economy	50
Price First-Class	736.63
Price Economy	63.08
Time Departure	12/1/2018 6:10:00 PM
Time Arrival	12/2/2018 4:48:00 AM
Airport Departure	FNL
Airport Arrival	MQY

[Back to List](#) | [View Seats](#)

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Viewing details will bring the user to the seating chart where they can view open seats and book a ticket

Seating chart for selected flight - Scroll to the bottom to select seat

-----Front of the plane-----

Row	Col 1	Col 2
1	Seat ID:1 Open:True First Class:True	Seat ID:2 Open:True First Class:True
2	Seat ID:3 Open:True First Class:True	Seat ID:4 Open:True First Class:True
3	Seat ID:5 Open:True First Class:True	Seat ID:6 Open:True First Class:False
4	Seat ID:7 Open:True First Class:False	Seat ID:8 Open:True First Class:False
5	Seat ID:9 Open:True First Class:False	Seat ID:10 Open:True First Class:False
6	Seat ID:11 Open:True First Class:False	Seat ID:12 Open:True First Class:False

The user can keep scrolling down and view the details on each seat and reserve one

Airplane Reservation System						Register	Login
SeatId	Available	FirstClass	RowNumber	ColNumber	Flight		
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	1	1008	Details	Reserve Seat
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	2	1008	Details	Reserve Seat
3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	1	1008	Details	Reserve Seat
4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	2	1008	Details	Reserve Seat
5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	1	1008	Details	Reserve Seat
6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3	1	1008	Details	Reserve Seat
7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3	2	1008	Details	Reserve Seat
8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	1	1008	Details	Reserve Seat
9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	2	1008	Details	Reserve Seat
10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5	1	1008	Details	Reserve Seat

The user can now book a flight

Reserve Seat

Username

jonathan@gregory.com

FirstName

Jonathan

LastName

Gregory

Dob

01/01/1992 01:01 AM

SeatId

1 ▼

Create

[Reserve Now](#)

The registration and login pages work too!

[Airplane Reservation System](#) [Home](#) [Employees](#) [Customers](#)

Register

Create a new account.

- Passwords must have at least one non alphanumeric character.

Email

Password

The Password must be at least 6 and at max 100 characters long.

Confirm password

The password and confirmation password do not match.

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Manage your account

Change your account settings

[Profile](#)
[Password](#)
[Two-factor authentication](#)
[Personal data](#)

Profile

Username

Email

[Send verification email](#)

Phone number

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