

An Airline Portal System: Entity Framework Case Study

Travify.com an Airline Booking Portal System maintains Airlines and their Flights for the passengers to search and book.

Portal Administrator will perform following management activities to manage the airline information.

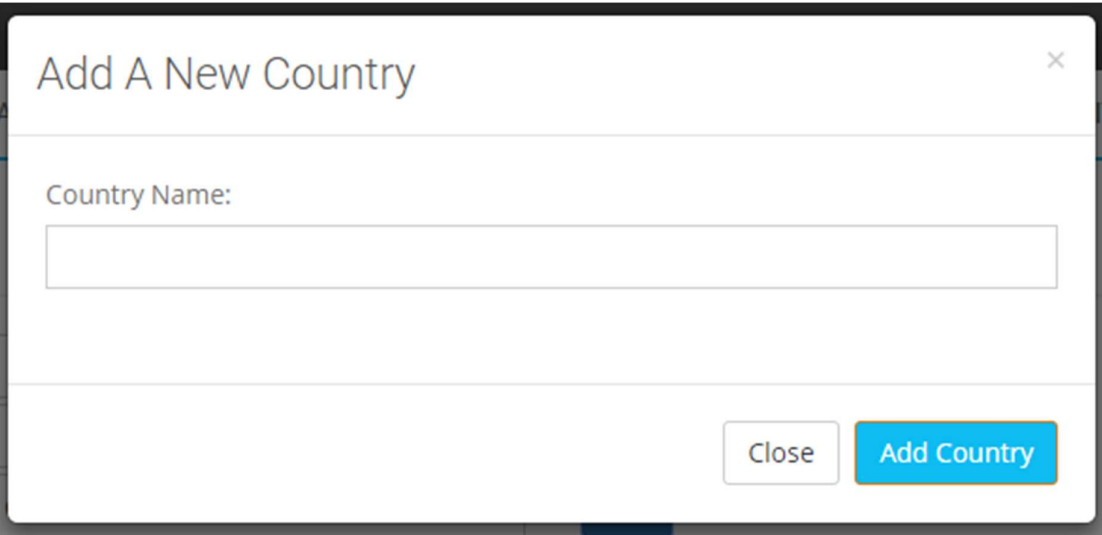
1. Add, Edit, View Airline
2. Add, Edit, View Flights with different seating capacity to Airline
3. Add, Edit, View Countries, Cities
4. Add, Edit, View Routes between two different cities
5. Add, Edit, View Flight Schedules between routes
6. And the passengers will search flights

The User Interface Team is working on the Web UI and they need a Data Access Layer to consume in the UI Layer for above use cases.

The Data Access Team need to Analyse the below UI Screens and come out with the following

1. Identify and Design the Model Classes
2. Design the Back-End Data Access Layer using Entity Framework Code First Approach
3. Consume the DAL Layer by creating Console Application to perform all Admin and Passenger activities as mentioned above.
4. Visit the hosted site at <http://172.31.11.5:8065/Account/Login>
 - a. with login id admin@travify.com
 - b. password: Admin@123456

UI Screens



The screenshot shows a web application window titled "Add A New Country". The window has a standard title bar with a close button (X) in the top right corner. Below the title bar, the text "Country Name:" is displayed, followed by a large, empty text input field. At the bottom right of the window, there are two buttons: a "Close" button and an "Add Country" button. The "Add Country" button is highlighted with a blue border and a blue background.

Cities

City Code:

City Name:

Choose A Country:

---Choose Country---



Add A New Country

Add City

Add Airline

Airline Code

Airline Logo

Choose File

No file chosen

Airline Name

Create

AddFlight

Airline Name

-- Select Airline --

Flight Name

Add Flight Class

Flight Class Type

-- Select Class Type --

Add A Flight Class

Total No Seats

Flight Class Type

-- Select Class Type --

Total No Seats



Flight Class Type

-- Select Class Type --

Total No Seats



+ Add Flight Capacity

- Remove All Capacities

Create

Routes

Choose From City:

Bengaluru

Choose To City:

Bengaluru

Distance in Kilometers:

Add Route

Add Schedule

Departure Date: dd-mm-yyyy

--:--

Arrival Date: dd-mm-yyyy

--:--

Choose Route:

-- Choose Route --

Choose Flight:

-- Choose Flight --

Duration (Mins):

Currency Code:

Flight Costs Per Class Type:

Economy Class

Business Class

Premium Economy Class

First Class

Create Schedule

FLIGHTS

Search for Cheap Flights

One Way

Round Trip

From

Mar 10

To

Mar 10

Departing

Mar 10

Passengers

1

Flight Class
















Economy Class

Airline

Search Now

Fare Calculator

Flight Search Results

 Vistara	 03:10 PM 10 March 2017 Bengaluru	 06:00 PM 10 March 2017 New Delhi	4740 INR/person Class: Economy Class
 Air Costa	 04:10 PM 10 March 2017 Bengaluru	 07:00 PM 10 March 2017 New Delhi	5525 INR/person Class: Economy Class
 AirAsia India	 01:10 PM 10 March 2017 Bengaluru	 04:00 PM 10 March 2017 New Delhi	5800 INR/person Class: Economy Class
 Jet Airways	 11:10 AM 10 March 2017 Bengaluru	 02:00 PM 10 March 2017 New Delhi	5810 INR/person Class: Economy Class
 Indigo	 06:10 AM 10 March 2017 Bengaluru	 09:00 AM 10 March 2017 New Delhi	6331 INR/person Class: Economy Class

Data Base ER Diagrams

