TW

Thursday, May 12, 2016   3:02 PM

Assignment-

Brief:

Here, we want to implement Flight search functionality. You have a form, where user can input and search for the flights. Then user will be able to see the search results, user can refine the search using a slider for prices.

Problem statement:
- Create a flight JSON data object for your all flights available to make the search happen.
- Take the User input from the search form and perform a search on the flight JSON data and display the valid search results in the results section.
- There are two tabs for return and one way search form, the return date should be visible on basis of the tab selected.
- Slider should refine the search results based on the selected price range.
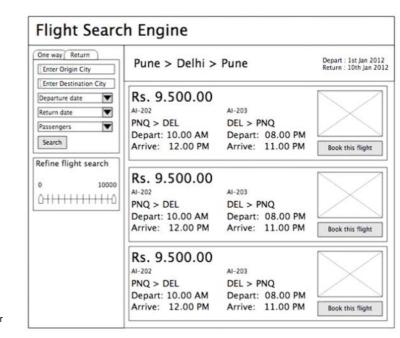
What are we looking for:
- Code structure and organization
- Simplicity and ease of understanding the code
- Understanding of JavaScript, HTML, JSON and CSS
- Creativity in terms of look and feel of the page

Brownie Points:
- Make the page Responsive i.e. device friendly(ipad, iphone, android)
- Test your code with some unit tests.
- IE7 compatibility.

When submitting the assignment, please mention some of the scenarios which work for search.

Flight Search Engine

One way | Return

Enter Origin City
Enter Destination City
Departure date ▼
Return date ▼
Passengers ▼
Search

Refine flight search

0   10000

Pune > Delhi > Pune   Depart : 1st Jan 2012
                                       Return : 10th Jan 2012

Rs. 9.500.00
AI-202   AI-203
PNQ > DEL   DEL > PNQ
Depart: 10.00 AM   Depart: 08.00 PM
Arrive: 12.00 PM   Arrive: 11.00 PM
Book this flight

Rs. 9.500.00
AI-202   AI-203
PNQ > DEL   DEL > PNQ
Depart: 10.00 AM   Depart: 08.00 PM
Arrive: 12.00 PM   Arrive: 11.00 PM
Book this flight

Rs. 9.500.00
AI-202   AI-203
PNQ > DEL   DEL > PNQ
Depart: 10.00 AM   Depart: 08.00 PM
Arrive: 12.00 PM   Arrive: 11.00 PM
Book this flight

Json Model thought Process

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City
  id
  Name

Vehicle

Id		
name		
flightNo		
travelFrom		
travelTO		
timeForTravel		
dateAvailability		
seatsBooked		
seatsEmpty		
timings		
NoOfTrip		
twoWayTrip		
totalSeats		

Search parameters

DepartureDate	
returnDate	
fromDestination	
toDestination	
noOfPassengers	
pricefrom	
Price to	

Resultinfo

Traveldate	
DeparturePlaceName	
ArrivalPlaceName	
DepartureTime	
Arrival Time	
Priceinfo	

Json model designed for search purpose and implemented in App

```
{
        "id": "149",
        "flightid": "IND 106",
        "travelfrom": "MAA",
        "travelto": "DEL",
        "travelfromdatetime": "Sun Jun 05
        2016 17:00:00",
        "traveltodatetime": "Sun Jun 05
        2016 19:40:00",
        "price": "2300",
        "seatavailability": "5"
}
```

File and folder organization

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Html structure
Layout structure follows
- outer wrapper
- header
- leftbar
- content Area

CSS color code used

- Blue: #0266C8
- Red: #F90101
- Yellow: #F2B50F
- Green: #00933B
- White : #FFF
- Grey : #d4d4d
- Black: #000000

Library used
Jquery
Angularjs 1.4
Jquery Ui for calender
IE 7 support library

Order of files organized in the App

Order of js files
custom css
library css
library/framework script
custom Script order
- Order of js files
- module
- run
- models
- services
- messages
- handlers
- factories
- filters
- directives
- controllers

Folder Structure
Css
Js
Images
Lib
Module
    Module
    Controller
    Directive
    Filter
    Model
    Service
    view

Index.html

Flight Search App V.1.0

Tuesday, May 17, 2016   5:40 PM

Flight search App
   Used to perform one way/ two way search.
   Used to see the availability of flights on the mentioned Date.
   Used to filter the available flights by price.

Flight search App is designed to support above IE 9 and other modern browser.
Responsive works great in above iE8* and other modern browser.
Given minimal support for IE 7.

Flight search App works greater on Google chrome.

Flight search criteria
   Json data is available for five dates from june 1,2016 to june 5, 2016
   One way search: select above mentioned date and location of travel from and to place
   Two way search: select above mentioned date and location of travel from and to place , you find result for
   onward and return results
   Filter the result by price slider

Run the App using webserver.