

UI Developer Exercise – Flight Search

Your client is an airline and would like to implement a new results page for their flight search functionality. After a number of iterations spent sketching, prototyping and user testing a variety of options, they have produced a wireframe (see below). The search results page includes a form where the user can search for the flights. Then the user will be able to see the search results, and refine the search using a slider for prices.

The Assignment

- Create a JSON document which stores all available flights.
- Based on user input in the form, perform a search on that document and display the valid search 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.
- The slider should refine the search results based on the selected price range.

Assessment Criteria

- You are expected to provide a fully functioning web page (JavaScript, HTML, CSS), you will be assessed on the follow criteria:
- Your ability to write production quality code
- Cross browser compatibility
- Code structure, organization and readability
- Your technical design
- Your understanding of HTML, CSS and JavaScript
- Test automation and coverage
- Accessibility

Remember, you may use libraries but you'll be assessed on the quality of code that YOU write.

Please include working setup instructions in a readme file. If using .NET, please include the version of Visual Studio used to build your code.

Extensions (for the pairing interview)

For the UI Dev assignment, their next stage is to come in for a pair programming interview and the extension is as follows:


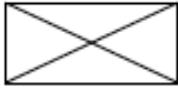
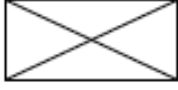
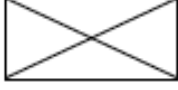
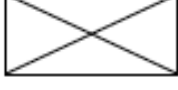
Extension: Make the flight list selectable. Once selected go to new page, show the summary and price.

Flight Search Engine

One way	Return
<div>From <input type="text"/></div> <div>Destination <input type="text"/></div> <div>Departure Date <input type="text"/></div> <div>Return Date <input type="text"/></div> <div>Passengers <input type="text"/></div> <div>Search</div>	
<div>Refine Flight Search</div> <div>£0 £200</div> <div><input type="text"/></div>	

Your Results

Depart: 1st Jan 2014
Return: 10th Jan 2014

	<div>AI-202</div> <div>PNQ > DEL</div> <div>Depart: 10:00 AM</div> <div>Arrive: 12:00 PM</div>	<div>AI-203</div> <div>PNQ > DEL</div> <div>Depart: 10:00 AM</div> <div>Arrive: 12:00 PM</div>	£125.00	Select this flight
	<div>AI-202</div> <div>PNQ > DEL</div> <div>Depart: 10:00 AM</div> <div>Arrive: 12:00 PM</div>	<div>AI-203</div> <div>PNQ > DEL</div> <div>Depart: 10:00 AM</div> <div>Arrive: 12:00 PM</div>	£125.00	Select this flight
	<div>AI-202</div> <div>PNQ > DEL</div> <div>Depart: 10:00 AM</div> <div>Arrive: 12:00 PM</div>	<div>AI-203</div> <div>PNQ > DEL</div> <div>Depart: 10:00 AM</div> <div>Arrive: 12:00 PM</div>	£125.00	Select this flight
	<div>AI-202</div> <div>PNQ > DEL</div> <div>Depart: 10:00 AM</div> <div>Arrive: 12:00 PM</div>	<div>AI-203</div> <div>PNQ > DEL</div> <div>Depart: 10:00 AM</div> <div>Arrive: 12:00 PM</div>	£125.00	Select this flight
	<div>AI-202</div> <div>PNQ > DEL</div> <div>Depart: 10:00 AM</div> <div>Arrive: 12:00 PM</div>	<div>AI-203</div> <div>PNQ > DEL</div> <div>Depart: 10:00 AM</div> <div>Arrive: 12:00 PM</div>	£125.00	Select this flight