ThoughtWorks®

UI Dev Recruiting Exercise

The Assignment: Your client in the travel industry 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 come up with a wireframe and visual design. There is a form, where the user can input and search for the flights. Then the user will be able to see the search results, and refine the search using a slider for prices.

Your Task: Tackle either one or both of the challenges below in building the results page. Choose the areas of the task that showcase what you think are your best skills as a UI developer. Are you a JavaScript developer, who can hand-code from scratch? Choose option 1. Do you develop in HTML and CSS to turn something into a great-looking web page, on any browser and any device? Choose option 2.

Your Deliverables: You may submit your assignment in whatever you feel comfortable/fast using. Examples: flat html/css, ruby/sinatra/haml/node/knockout/angular/ember and sass/scss/less. You may submit a readme file with your assignment. The readme should only serve to help facilitate a conversation; not provide documentation. You may use libraries and frameworks if you would like to, but you would need to be able to explain your choices.

What we are looking for:

- The ability to create production quality code
- Code structure and organisation
- Simplicity and ease of understanding the code
- Understanding of HTML, CSS and JavaScript
- Attention to detail

Challenge #1: JavaScript

- 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.
- The slider should refine the search results based on the selected price range.

For extra points:

- Test your code with some unit tests.
- Make your page accessible.

Challenge #2: HTML and CSS

- Give some thought to how you would approach the visual design for this project. Then develop the HTML and CSS to produce a simple visual design as a static web page.
- Consider which browsers you would support and why?

For extra points:

- Consider how this web page would be viewed on a variety of different devices and make it “responsive”.
- Make your page accessible.