

Pilota Coding Challenge

Welcome to the official Pilota coding challenge!

Here at Pilota we don't really believe in asking boring computer science questions about $O(n)$ time complexity or the best way to use bubble sort... yuck.

Instead your mission (should you accept it) will simulate a typical REAL feature you might be asked to implement in your everyday life here at Pilota. We think this is a MUCH better way for us (and you) to understand if you might be a good fit here.

A major aspect of coding at Pilota involves rapidly connecting to external systems and extracting valuable data. In this challenge you will be asked to parse the contents of [kayak.com](https://www.kayak.com)'s search results (ex: [here](#)). You will be using [Tampermonkey](#) to run the scraper every time the page loads.

Setup

1. Install Tampermonkey on your browser.
 1. [tampermonkey.net](https://www.tampermonkey.net)
2. Read the documentation
 1. <https://www.tampermonkey.net/documentation.php>
 2. <https://spin.atomicobject.com/2016/08/01/baby-monitor-tampermonkey/>
3. Load the template code that we gave you into Tampermonkey
 1. Pilota-Scraper.user.js (found in the same directory as this PDF)

Create a program that scrapes flight data

1. Retrieve the following per flight
 1. Airline Name (ex: Jetblue or AA)
 2. Flight Number (ex: 160)
 3. Departure airport code (ex: JFK)
 4. Arrival airport code (ex: LAX)
 5. Departure Date (ex: 05/19/2020)
 6. Time en route (ex: 5h 41m)
2. Print each flight and its information to the console
 1. `console.log(<flight info in here>)`
3. Create a button on the kayak webpage that will store the information into a file
 1. The file does not need to be in a specific format, but the data should be easy to understand.

Bonus

1. When a user clicks on the **Show More Results** button on the bottom of the page more flights are loaded. Find a way to detect and scrape those new flights automatically.

Important notes:

1. You must write your code in Javascript, but you can use any frameworks or libraries you'd like.
2. You must use Tampermonkey to execute your script.
3. Your code should be awesome. We like code that is production ready, which means readable, reusable and efficient.
4. You might have noticed that we deliberately did not specify any design aspects, that's because we expect you (and all our employees) to make design decision on your own.
5. But also, do not forget to ask questions. We are here for you if something isn't quite clear.

When you are done send over the code to omer@flypilota.com and cyrus@flypilota.com

You can use those email addresses for questions too!

Good luck!