Paxport recruitment - take-home web scraping technical test

Thank you for taking the time to do our technical test. Your submission will be evaluated and discussed in the next round of the interview process with one of our engineers.

NOTE: The contents of this test are confidential and must not be redistributed

Overview

As part of the web scraping team you would regularly be scraping airline websites to retrieve data (and ultimately enable booking). We have created the following task to evaluate your approach to writing code which can retrieve data from a website.

You are free to spend as much or as little time as you like on this test. As we value your time we suggest you don't spend more than 5 hours in total.

Task

We would like you to implement a basic one-way flight availability search against the Aer Lingus website (https://www.aerlingus.com) for a given route & date. The route & date should be provided as user-defined inputs to the application, and a simplified JSON result of available flights should be returned by the application.

The simplified JSON result should contain the following for each available flight:

- Departure airport
- Arrival airport
- Departure date & time
- Arrival date & time
- Flight number
- Adult fare cost with currency

Your solution should either be a command line program accepting user arguments or a REST API service accepting a user request. The program must satisfy the requirements and be user testable by us.

Requirements

- Must be written in Java
- Ideally should include tests
- Feel free to use any libraries / frameworks of your choice
- Aim for production quality code
- There is no need to persist any data beyond storing it in memory
- A README file containing:
    - Justification of any design decisions you have made
    - How long you spent on the test and what would you develop if spending more time on it
    - Notes regarding how we can build & run your code
    - Any assumptions that you have made because you were unsure of any of the requirements

To submit your test, please email a compressed archive of your code to ws.recruitment@paxport.net