AirFair

beyond the sky

AirFair

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Problem Statement

Who wouldn't like a cheap flight to Hawaii? We all have places we'd like to visit and, with the surge in remote work in today's post-Covid digital world, checking off our travel bucket lists is more possible than ever before! But who has time to scour the web night and day for that perfect flight? If only, there was a way to analyze, understand, and purchase tickets at humbling prices…

Solution

…there is! AirFair allows you to input your dream destinations, along with your preferred local airport, budget, and a range of dates that work for you. We'll email you with our best finds so you can spend all your time planning the vacation.

Using Web-Scraping, our team will search Expedia and email the user with great tickets that fit the user's constraints.

Features

- A website where a user must create a profile and input the following:
    - email address
- The user can create requests, where they input the following:
    - preferred local airport
    - destination
    - a range of potential departure dates
    - a range of potential return dates
    - maximum price they're willing to pay

- AirFair emails the user with flights that fit the user's request

- The user can create up to 5 active searches

- The user can delete searches

Data Collection

AirFair works by scraping flight data from Expedia.

We will store user's profiles in Amazon S3.

Algorithms and Special Techniques

We plan on using Selenium WebDriver to accomplish scraping from Expedia. This allows us to input user preferences (e.g. dates, destination, etc.) much like a person would.

As our start-up gains popularity, we hope to amass many users. To keep track of users and their information, we will create a User struct and store each profile in a hashtable where the user email is the key.

Mockup

https://wireframepro.mockflow.com/space/airfairmurtsayeed