

Welcome to **CityHop**



A new flight search engine that makes multi-city trip planning simple



Introduction

Hello! My name is Armando Medina, I'm a Venezuelan living in Spain.

I've had a passion for programming since I was 12, and last year I decided to retake it as a profession.

I participated in the Motoko bootcamp in May where I learnt about the ICP and I got really involved with it.

Traveling is another passion of mine, so I decided to put the two together to design a new product I believe will make the lives of frequent flyers way easier.





Since then I've been wanting to create a search engine that'll allow people to be flexible with their travel plans while saving their time (and money).

About CityHop

The motivation for creating CityHop came from my personal travel experience.

Last year I had a list of 10 cities I wanted to visit, and I wanted to fit them all into 1 trip.

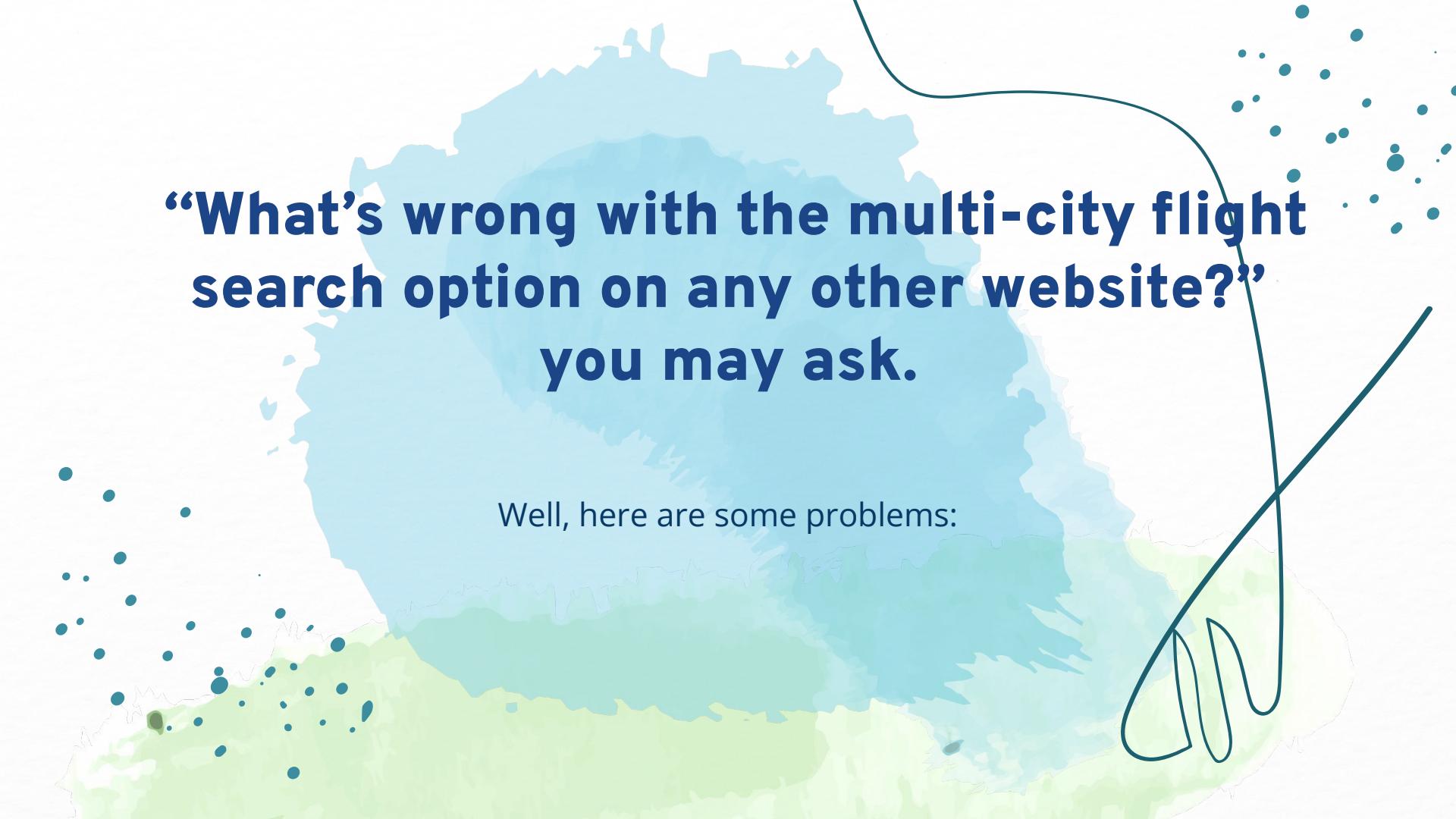
So I had to search for the best/cheapest flights and routes manually on different websites which took a lot of time and effort.

Here is the idea:

Imagine that you get a 2-week vacation and you have several cities in mind that you'd like to visit.

You know the dates when you want to depart and return to your home city. You don't care for the precise dates that you'll come to each city, you just have a desired number of days that you want to spend in each of them.

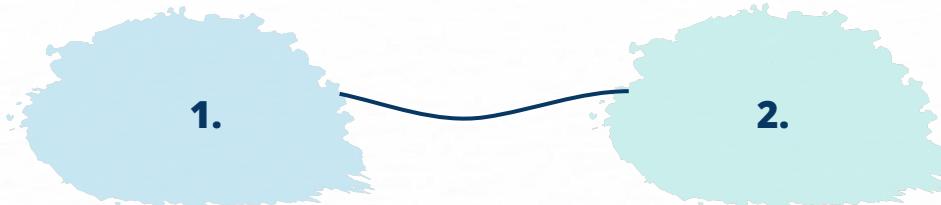
Ideally, you want to find the cheapest tickets to each city, as well as to think of the best combination of cities, fastest routes wise, and direct flights only.



**“What’s wrong with the multi-city flight search option on any other website?”
you may ask.**

Well, here are some problems:

• Problems with the existing multi-city search



1.

2.

You need to know the exact order of the cities you want to visit, or keep changing it manually to get the best price/flight option

You need to put in the exact dates of departure from each city.

When you're trying to find the best flight option, you'll need to play with the dates manually.

Solution

CityHop offers you to:

A large blue arrow pointing to the right, containing the number 1.

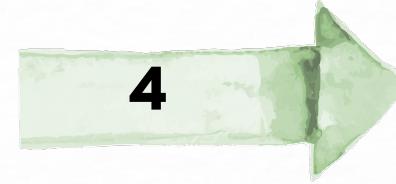
1

A large green arrow pointing to the right, containing the number 2.

2

A large blue arrow pointing to the right, containing the number 3.

3

A large green arrow pointing to the right, containing the number 4.

4

Add any number of cities you want to visit in any order

Choose the number of days you want to spend in each city

Put in only the date of departure and return to your home city

Save your time and money as **CityHop** will work on giving you the best flight options!



CityHop will fetch all the possible routes and dates of departures/arrivals, shuffle them and give you 3 options to choose from:

Cheapest, by price;
Fastest, by flight hours;
Best, by my personal criteria
and travel experience.

WHAT DO WE WANT?



CHEAP FLIGHTS!



WHEN?



NOW!!



WHERE?



CITYHOPES



What the website offers now

1. You can select only 2 cities to visit and a fixed number of days
2. The results of the search include direct flights only
3. Fixed departure date
4. City of return has to be the same as the city of departure
5. It only gives the Cheapest option out of all 3 in the results



CityHop

DEPARTURE:

AYS IN EACH CITY: 1

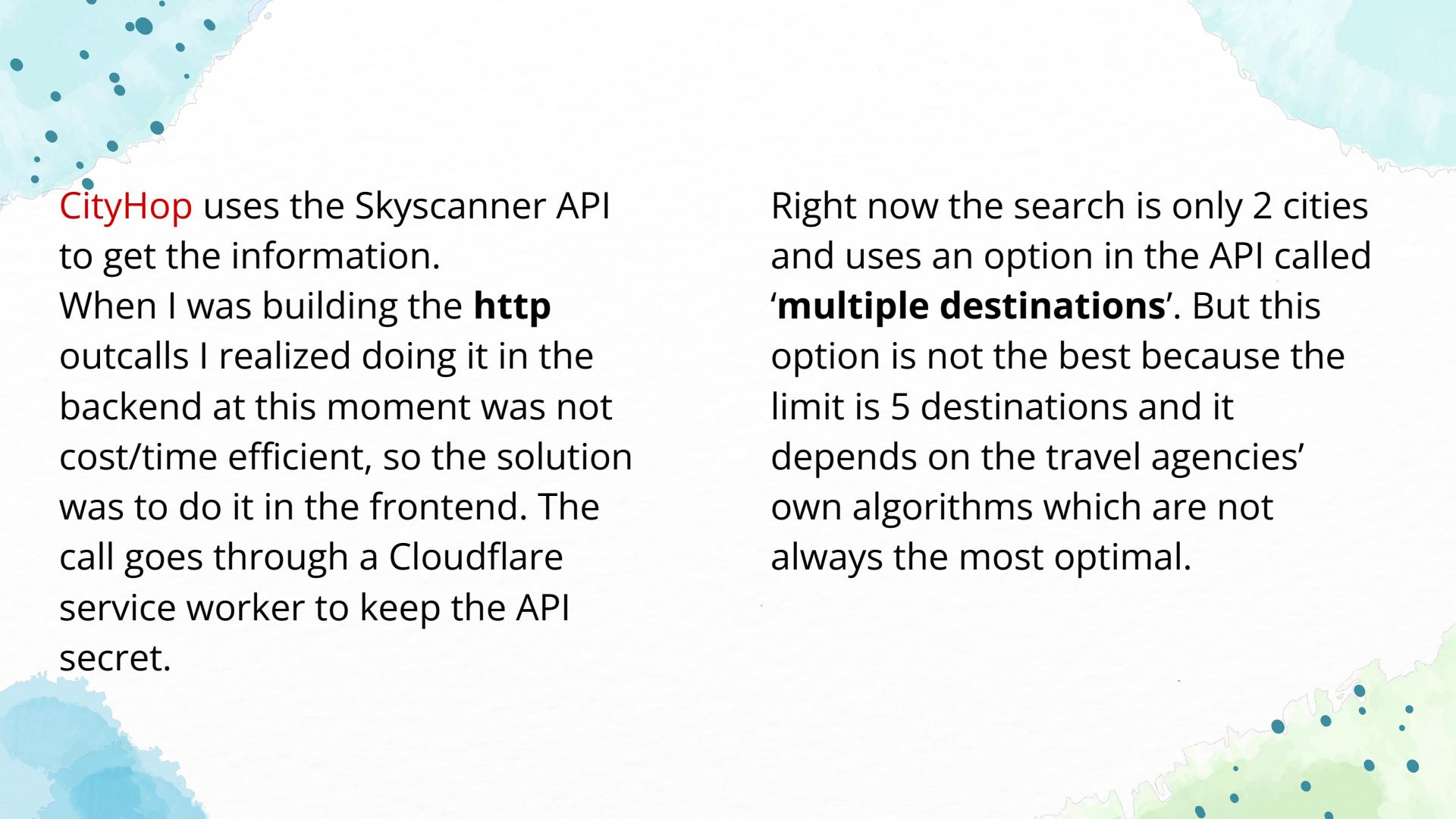
CITY VISIT 1:

HOW MANY ADULTS: 1

CITY VISIT 2:

DATE OF DEPARTURE:

SEARCH



CityHop uses the Skyscanner API to get the information.

When I was building the **http** outcalls I realized doing it in the backend at this moment was not cost/time efficient, so the solution was to do it in the frontend. The call goes through a Cloudflare service worker to keep the API secret.

Right now the search is only 2 cities and uses an option in the API called '**multiple destinations**'. But this option is not the best because the limit is 5 destinations and it depends on the travel agencies' own algorithms which are not always the most optimal.

Future updates of the website

1. Select any number of cities to visit with a range of days to spend per city
2. If ticket prices for one city go too high, suggest a city change or removal
3. It will show 3 options in the results: the cheapest, the fastest, the best
4. It will include other possible means of transportation and connection between the cities, such as buses, trains, ferries, BlaBlaCar
5. The end goal is to fetch the airlines data by myself

Contacts



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