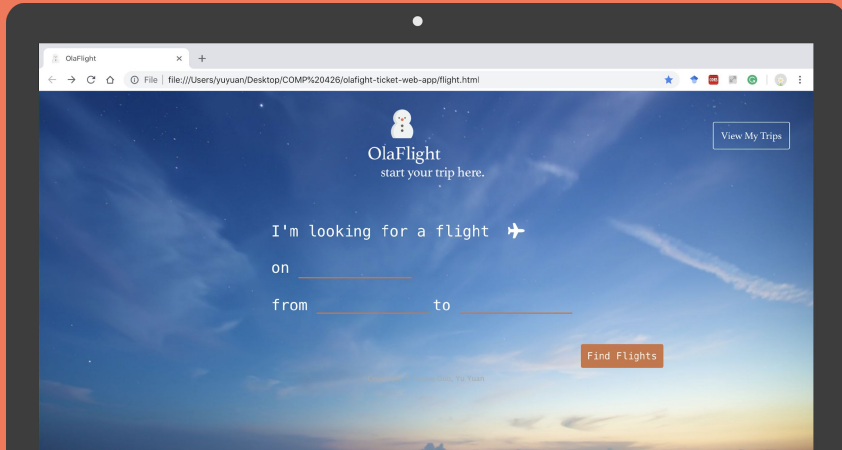


OlaFlight

COMP 426 Final Project

Yaxue Guo | Yu Yuan

START



OlaFlight

An integrated travel booking site.

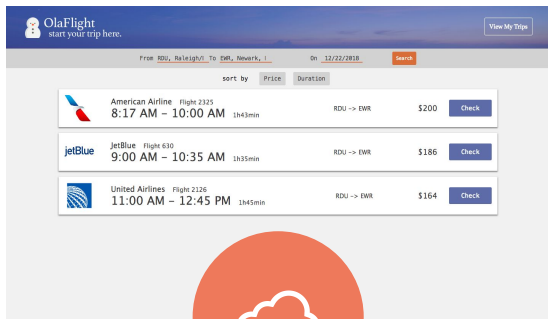
Help you to find all the possible solutions and make it easier to compare the prices across the carriers.

The Cooperation



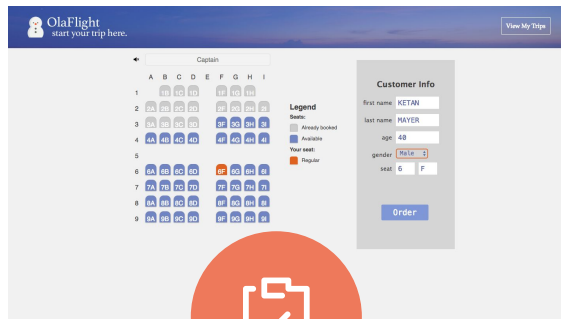
App Features

Search Flight



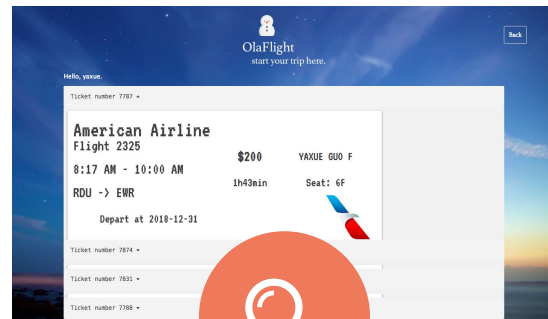
Support flight search with date, departure and arrival airport or city. Auto-suggestion feature included.

Book Ticket



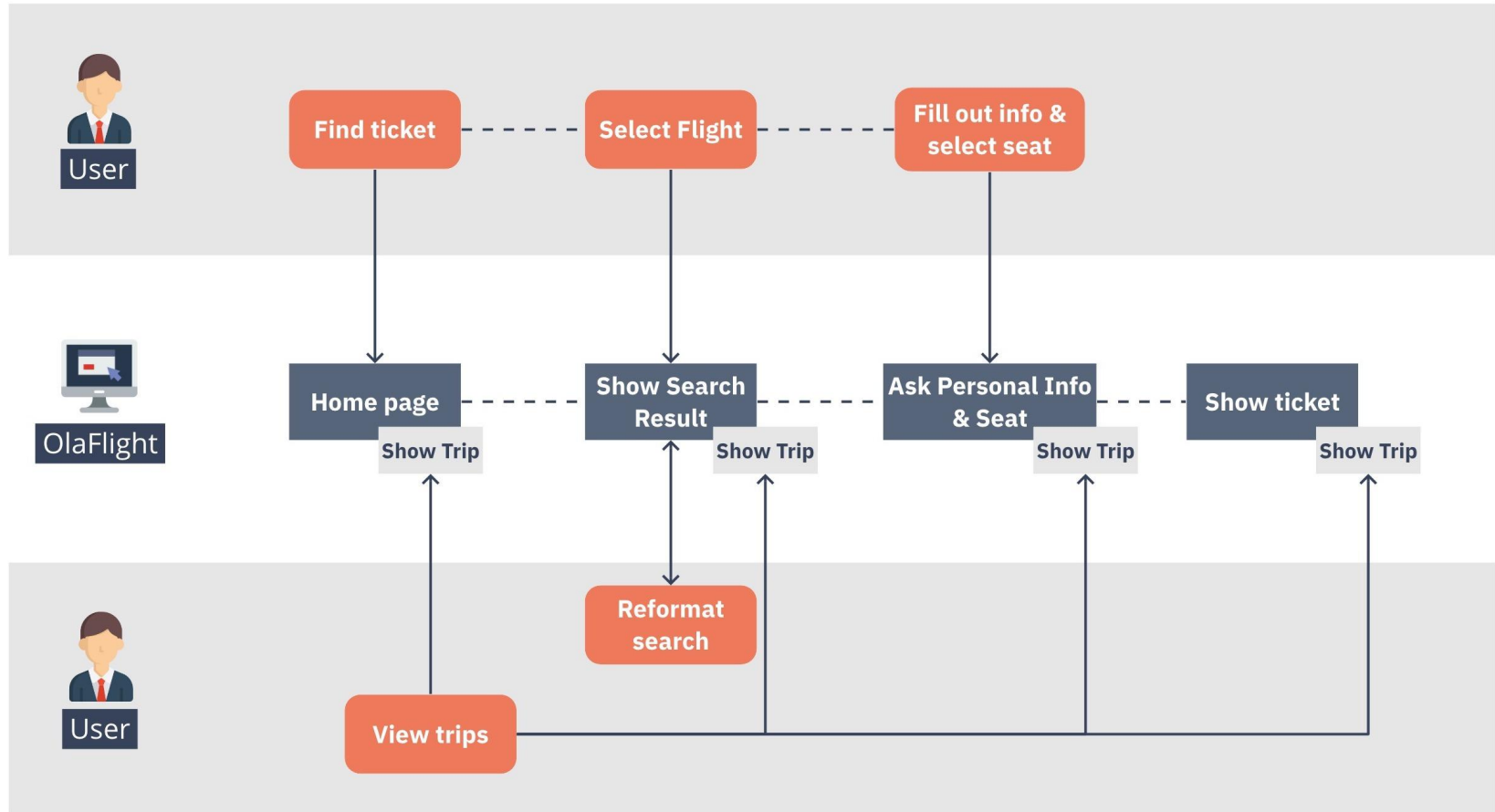
Provide seat map for seat choice. Require name, age, gender input to complete an order.

View Order



Imitate real flight ticket design for ticket view. One-click to view all current user's orders.

Workflow





App Demonstration



One DOM Load

Only one DOM load and everything else within the app is being done via client-side programming.

Interactive feature

Auto suggestion when user inputs airport name or city name.

Responsive layout

Reasonable design from our own CSS scratch. Use responsive Flex and Grid for overall and partial layout.

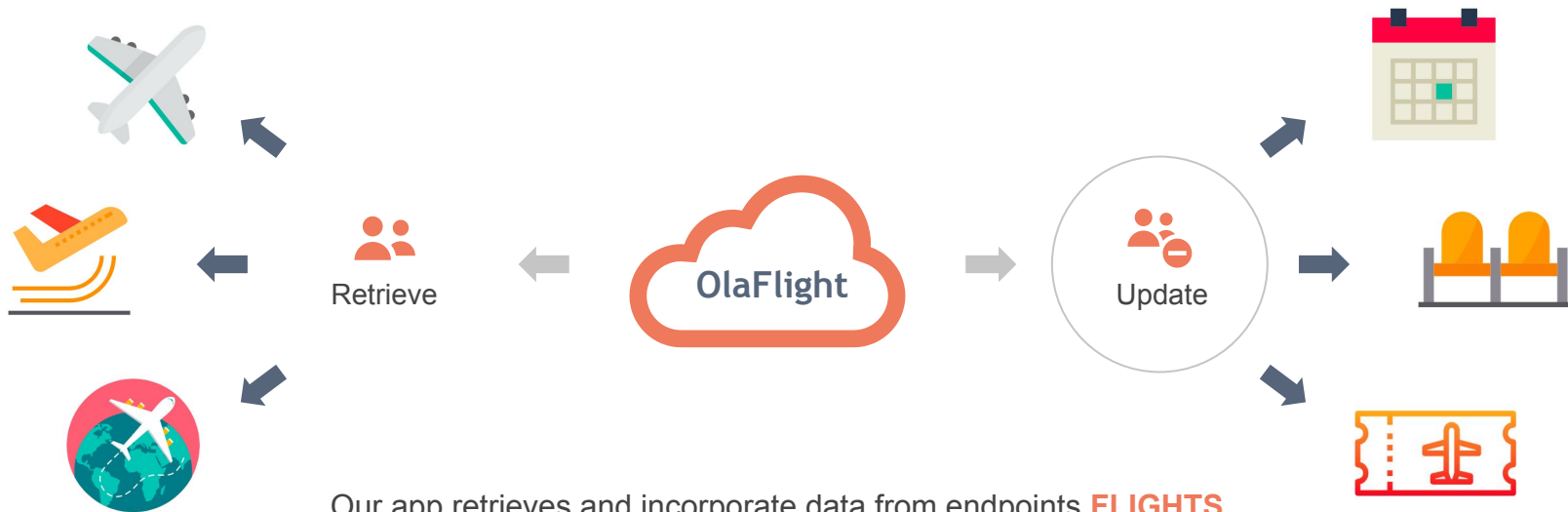
Multiple modes

5 “pages” in total, including home page, search page, order page, ticket view page and order view page.

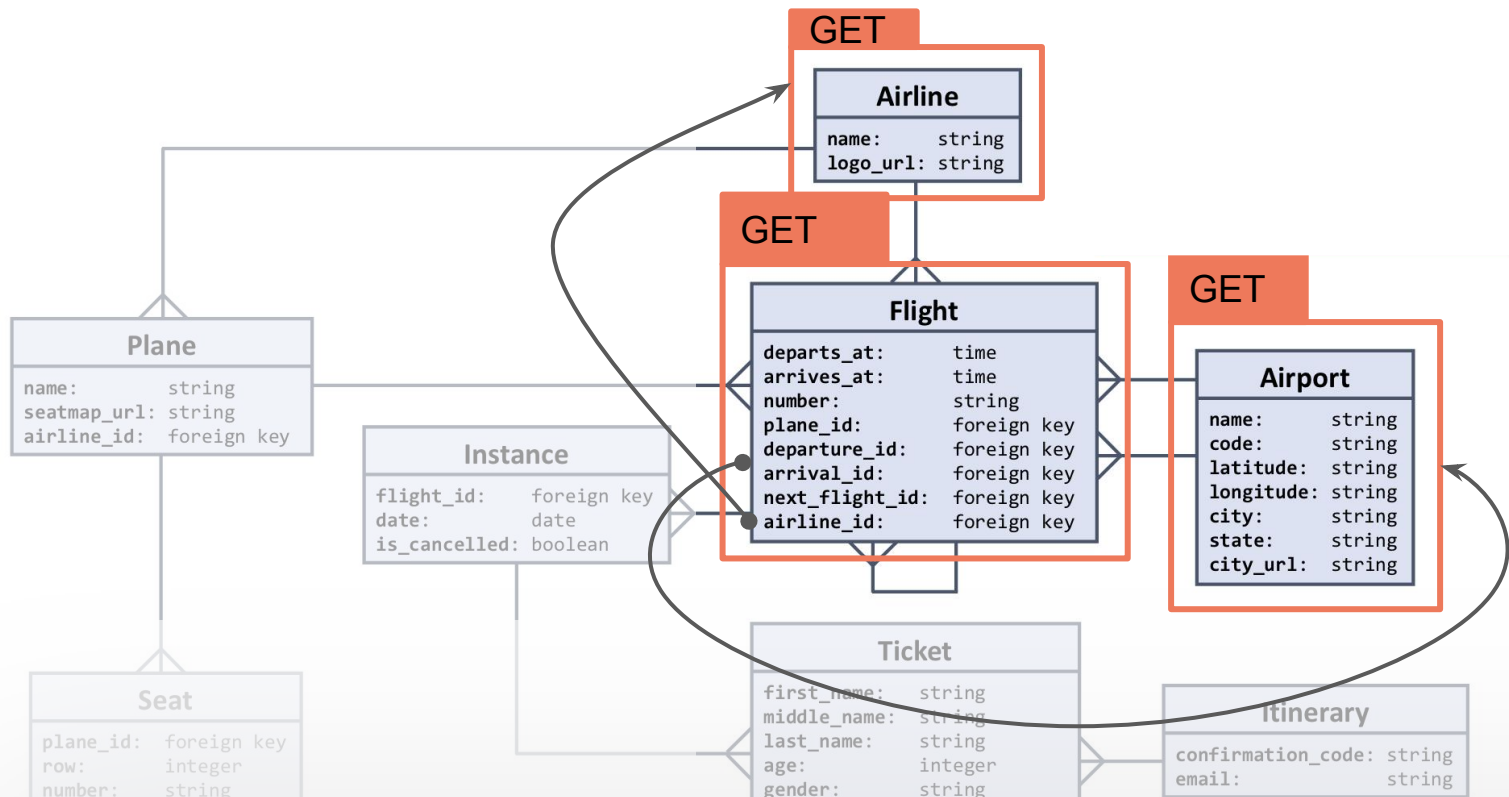
6 API Endpoints Use

Search flight/ view order function relies on GET HTTP verb and order ticket function relies on POST.

API Endpoint Uses



Our app retrieves and incorporate data from endpoints **FLIGHTS**, **AIRPORTS**, **AIRLINES**, and creates and updates information on the backend to endpoints of **INSTANCES**, **SEATS**, **TICKETS**.



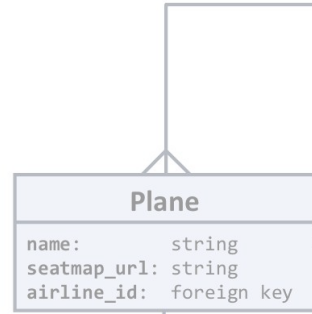
American Airline Flight 2325

8:17 AM – 10:00 AM 1h43min

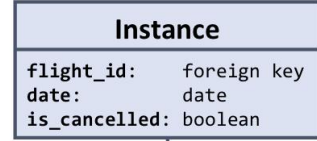
RDU -> EWR

\$200

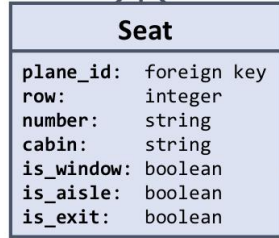
Check



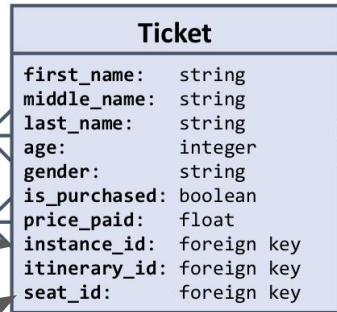
POST



POST



POST



Captain

	A	B	C	D	E	F	G	H	I
1		1B	1C	1D		1F	1G	1H	
2	2A	2B	2C	2D		2F	2G	2H	2I
3	3A	3B	3C	3D		3F	3G	3H	3I
4	4A	4B	4C	4D		4F	4G	4H	4I
5									
6	6A	6B	6C	6D		6F	6G	6H	6I
7	7A	7B	7C	7D		7F	7G	7H	7I
8	8A	8B	8C	8D		8F	8G	8H	8I
9	9A	9B	9C	9D		9F	9G	9H	9I

Legend

Seats:

- Already booked
- Available

Your seat:

- Regular

Customer Info

first name

last name

age

gender

seat

Order

Airport

```
name: string
code: string
latitude: string
longitude: string
city: string
state: string
city_url: string
```

Ticket number 11697 ▲

United Airlines
Flight 2126

11:00 AM - 12:45 PM

RDU -> EWR

Depart at 2018-12-26

\$164

KETAN MAYER M

1h45min

Seat: 9C



Plane

name: string
seatmap_url: string
airline_id: foreign key

United Airlines

Flight 2126

11:00 AM - 12:45 PM

RDU -> EWR

Depart at 2018-12-26

\$164

KETAN MAYER M

1h45min

Seat: 9C



GET

Airline

name: string
logo_url: string

GET

Flight

departs_at: time
arrives_at: time
number: string
plane_id: foreign key
departure_id: foreign key
arrival_id: foreign key
next_flight_id: foreign key
airline_id: foreign key

GET

Airport

name: string
code: string
latitude: string
longitude: string
city: string
state: string
city_url: string

GET

Ticket

first_name: string
middle_name: string
last_name: string
age: integer
gender: string
is_purchased: boolean
price_paid: float
instance_id: foreign key
itinerary_id: foreign key
seat_id: foreign key
user_id

Itinerary

confirmation_code: string
email: string

GET

Instance

flight_id: foreign key
date: date
is_cancelled: boolean

729 lines of JS



Use JavaScript library, JQuery.

493 lines of CSS



Design from scratch, no framework.

33 commits



Teamwork + version control in git.

Future Work

Round-trip flight

Provide round-trip search and compare function.



Third party API

Integrate Google map API to show airport location.

Transfer flight

Support transfer flight between departure and arrival airport.

Live seat map

Update seat map based on plane and booked tickets.



Thanks, hope you'll enjoy **OlaFlight**.