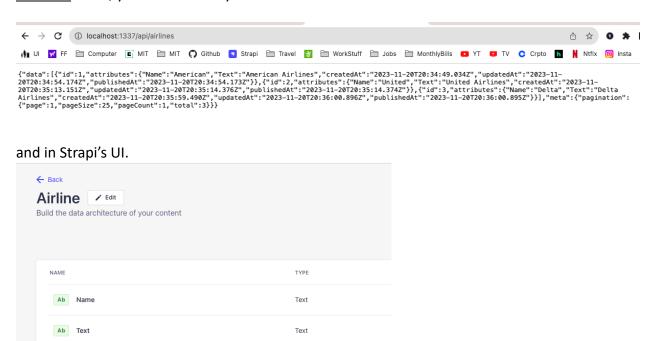
#### **Module 10 Final Assignment**

#### Stephen Barnes

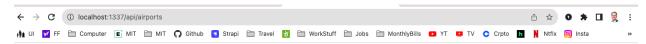
Please see below the three *collection* types for the Flights API. These were created by following Professor William's instructions and by watching YouTube tutorials at <a href="https://www.youtube.com/@Strapi">https://www.youtube.com/@Strapi</a>. Basically, the steps were to create the collections, add their respective fields, define those fields (including relationships to other collections, if applicable) and establish permissions and authorizations.

Airlines: Here, you can see in my browser the API for Airlines...



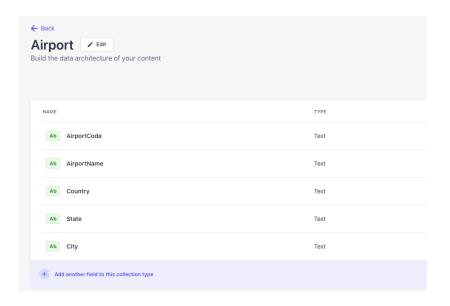
#### Likewise, here is the **Airport** info:

+ Add another field to this collection type



{"data":[{"id":1,"attributes":{"AirportCode":"PHX","AirportName":"Sky Harbor","Country":"USA","State":"AZ","City":"Phoenix","createdAt":"2023-11-20720:37:09.8302","publishedAt":"2023-11-20720:37:09.8302","publishedAt":"2023-11-20720:37:09.8202")},{"id":2,"attributes":{"AirportCode":"PMM","AirportName":"Portland, Maine Airport","Country":"USA","State":"Me","City":"Portland, Maine Airport","Country":"USA","State":"Me","City":"Portland,"City":"Portland,"City":"Portland,"City":"Portland,"City":"Portland,"City":"DoubledAtd:":"2023-11-20720:38:00.9972")},{"id":3,"attributes":("AirportCode":"LAX","AirportName":"Los Angeles Int'l Airport","Country":"USA","State":"CA","City":"Los Angeles,"CreatedAt":"2023-11-20720:38:30.0127,"updatedAt":"2023-11-20720:38:30.1032"}],"meta":{"pagination":{"page":1,"pageSize":25,"pageCount":1,"total":3}}}

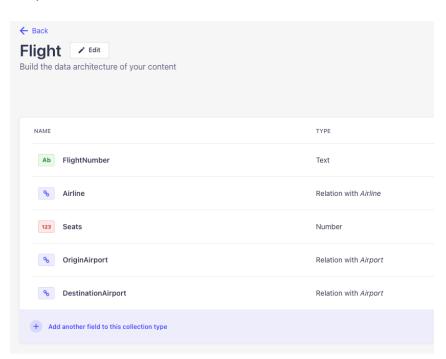
### As well as in Strapi:



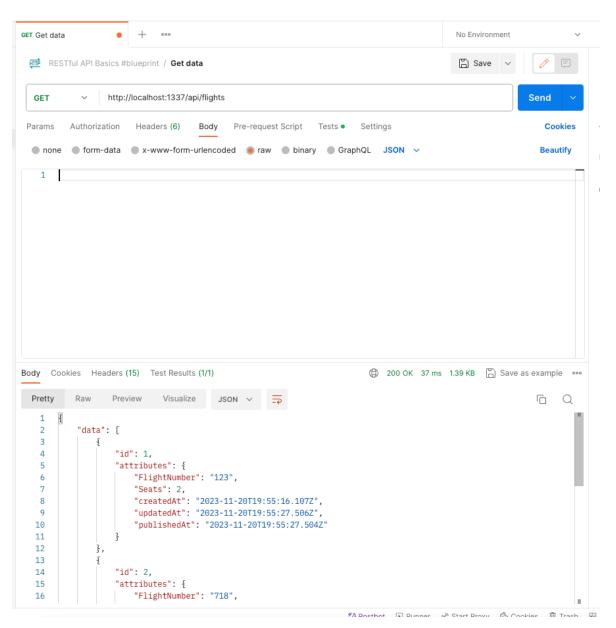
# And, finally, here is the Flight info:



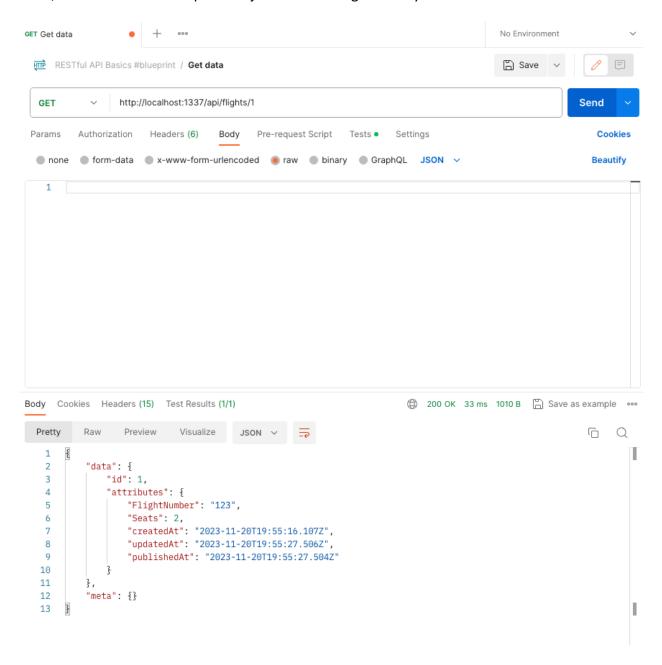
### Strapi:



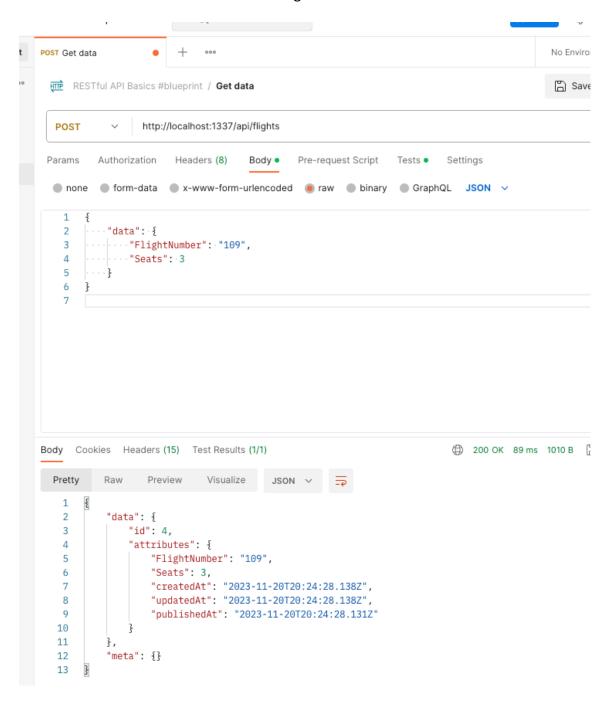
As evidenced above, I included data for each of the collections. Then, I did a GET request in Postman to retrieve the 'Flights' information. As you can see below, the request worked ("200 OK") and fetched info for all flights.



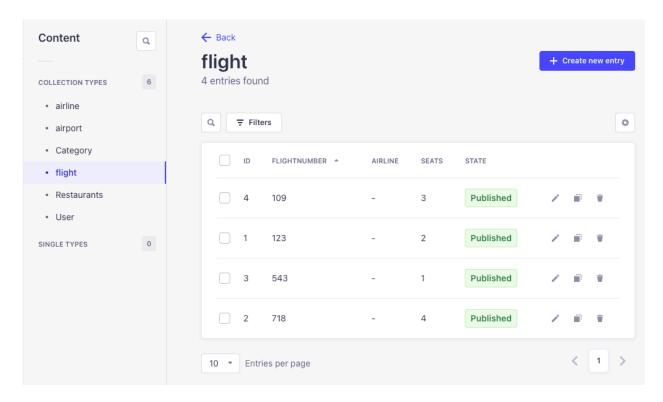
# Then, I did another GET request for just the first 'Flights' entry:



And then used Postman to create a new flight with a POST API.



# Which then appeared in my CMS, Strapi:



After using Postman to create a new flight, I used a PUT API in Postman to update flight 3. The screenshot below is the 'before' code that was returned using a GET API for flight 3. Further down, you'll see the code, and the requested changes that was returned after I did the PUT API.

## BEFORE THE CHANGES (this was done with a GET API in Postman):

```
"data": {
    "id": 3,
    "attributes": {
      "FlightNumber": "543",
      "Seats": 1,
       "createdAt": "2023-11-20T19:56:09.637Z",
       "updatedAt": "2023-11-20T21:00:16.759Z",
       "publishedAt": "2023-11-20T19:56:10.466Z",
       "Airline": {
        "data": {
           "id": 3,
           "attributes": {
             "Name": "Delta",
             "Text": "Delta Airlines",
             "createdAt": "2023-11-20T20:35:59.490Z",
             "updatedAt": "2023-11-20T20:36:00.896Z",
             "publishedAt": "2023-11-20T20:36:00.895Z"
          }
        }
      },
       "OriginAirport": {
        "data": {
           "id": 2,
           "attributes": {
             "AirportCode": "PWM",
             "AirportName": "Portland, Maine Airport",
             "Country": "USA",
             "State": "ME",
             "City": "Portland",
             "createdAt": "2023-11-20T20:37:59.143Z",
             "updatedAt": "2023-11-20T20:38:00.599Z",
             "publishedAt": "2023-11-20T20:38:00.597Z"
          }
        }
      },
       "DestinationAirport": {
         "data": {
           "id": 1,
           "attributes": {
             "AirportCode": "PHX",
             "AirportName": "Sky Harbor",
             "Country": "USA",
             "State": "AZ",
             "City": "Phoenix",
             "createdAt": "2023-11-20T20:37:08.343Z",
             "updatedAt": "2023-11-20T20:37:09.830Z",
             "publishedAt": "2023-11-20T20:37:09.828Z"
        }
      }
    }
  },
  "meta": {}
}
```

### AFTER THE CHANGES (this was done with a PUT API in Postman):

```
PUT
                                   localhost:1337/api/Flights/3?populate=Airline,OriginAirport,DestinationAirport
                    Authorization
                                                   Headers (8)
                                                                                  Body •
                                                                                                     Pre-request Script
■ none ■ form-data ■ x-www-form-urlencoded ■ raw ■ binary ■ GraphQL JSON ∨
   2
                     "data": {
                        ···"Seats": 60,
   3
   4
                             ·"Airline": 1
   5
   6
       "id": 3,
        "attributes": {
          "FlightNumber": "543",
          "Seats": 60,
"createdAt": "2023-11-20T19:56:09.637Z",
"updatedAt": "2023-11-20T21:17:27.177Z",
          "publishedAt": "2023-11-20T19:56:10.466Z",
          "Airline": {
    "data": {
                "id": 1,
                "attributes": {
                   "Name": "American",
"Text": "American Airlines",
                   "createdAt": "2023-11-20T20:34:49.034Z",
"updatedAt": "2023-11-20T20:34:54.174Z",
                    "publishedAt": "2023-11-20T20:34:54.173Z"
           "OriginAirport": {
             "data": {
"id": 2,
                   attributes": {

'AirportCode": "PWM",

"AirportName,": "Portland, Maine Airport",

"Country": "USA",

"State": "ME",

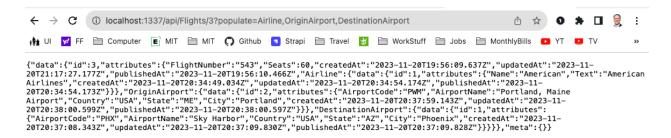
"City": "Portland",

"createdAt": "2023-11-20T20:37:59.143Z",

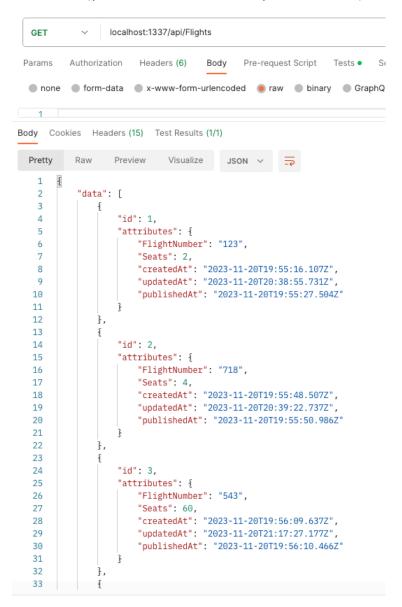
"uudatedAt": "2023-11-120T20:38:00.5992",

"uudatedAt": "2023-11-120T20:38:00.5992",
                    "publishedAt": "2023-11-20T20:38:00.597Z"
          "DestinationAirport": {
   "data": {
                "id": 1,
                 "attributes": {
                   "AirportCode": "PHX",
"AirportName": "Sky Harbor",
                   "Country": "USA",
"State": "AZ",
"City": "Phoenix",
                   "createdAt": "2023-11-20T20:37:08.3432",
"updatedAt": "2023-11-20T20:37:09.8302",
"publishedAt": "2023-11-20T20:37:09.8282"
      }
    "meta": {}
```

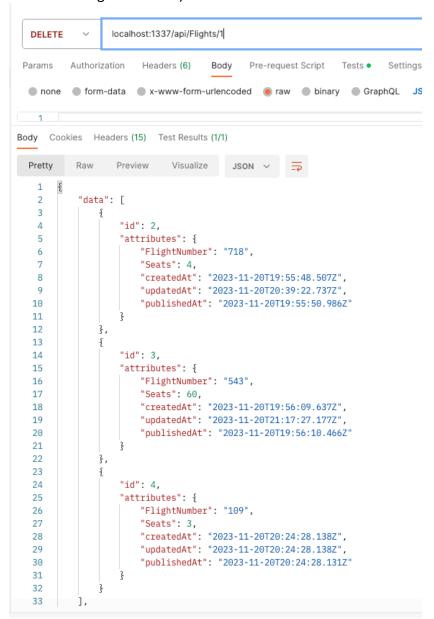
And here is the update in the url as well:



The next step was to send a DELETE request in Postman. Here, you can see all flight info for all the entries (you'll see the deleted entry further down):



And now you can see that flight with ID 1 is gone. (P.S. when I ran the DELETE API it returned the info for the flight I deleted).



You can see that the flight is gone in the url too:

The last step was to obtain the code to run a Python application to make a GET request in VS Code. This was done by clicking the 'code' icon on the right-hand panel within Postman and selecting the appropriate language (Python), and then clicking the copy icon for that language. Then, I created a new Python file from within VS Code and pasted the code from Postman.