YVR COVID Tracking

API Reference

Introduction

💖 Hello! This API was developed by Lena Kwan and Hannah Chung in hopes that someone would make use of this to help others. As we all know, the pandemic of 2020 has been hard on many individuals so we wanted find our own way to contribute to those making the world a safer place! Please take care of yourselves and stay safe.

The YVR COVID Tracking API was created to store data about users, their flight locations and it keeps track of flight data separately. APIV1 is a REST API that allows API access via HTTP protocol at a predefined set of URLs. These URLs allow you, the developer, to access various resources which can have methods performed on them (GET/POST/PUT/DELETE).

Authentication

Working with the API

The COVID Tracking API requires a security token to access various resources. As we wanted to let developers try the API before having to request a token. We have made GET requests to the Flight Information open to public.

Security Token

To make requests in regards to the user resource or location resource and to make requests that affect the database. You will need to pass a valid security token within the API requests, otherwise you will

need to pass a valid user name + user password in your request.

As this is a student project, you can contact us directly for tokens or if you have any questions.

Core Resources

Write access to all resources currently require authorization through security tokens. This is due to a sizing limitation in our cloud database which may change in the future.

Flights

This is an object representing airplane flights. You can retrieve it to see what flights are currently in the database.

> {"flight_id":"44","flight_date":"2020-11-27T00:00:00.000Z","to_city":"Vancouver","from_city":"Delhi","flight_company":"Air Canada"}

Attributes

- flight_id *string*
  - can be numeric, alphabetic or a mix of the two. this is used to determine the flight number.
  - example: '21'
- flight_date *date*
  - date object, this refers to the departure date of the flight, not arrival date.
  - example: '2020-12-01'
- to_city *string*
  - string containing destination city
  - example 'Vancouver'
- from_city *string*
  - string containing departure city
  - example 'Toronto'
- flight_company *string*
  - string containing the name of the airline company
  - example 'WestJet'

▼ Methods

- GET

    - ▼ "/getFlights"

        Use Case: Retrieve all flights to display in a news article

    - ▼ "/getSingleFlight/:flight_id/:flight_date"

        Use Case: Letting users enter their flight number and date to check status.

    - ▼ "/getCarrierFlights/:flight_company"

        Retrieve all COVID positive flights for a flight company.

    - ▼ "/getArrival"

        Retrieve all COVID positive flights for an airport.

    - ▼ "/getDeparture"

        Retrieve all COVID postiive flights leaving an airport.

- POST

    - ▼ "/createFlightEntry"

        Requires administrative user with access to security token to enter flight cases or run script to enter flight cases.

- PUT

    - ▼ "/updateFlightEntry"

        Requires administrative user with access to security token to edit flight cases.

- DELETE

    - ▼ "/deleteFlightEntry"

        Requires administrative user with access to security token to remove flight cases or run script to remove flight cases.

Users

This is an object representing users for your application. You will be able to register them yourselves but for users with administrative access/security tokens, please contact us to have them created.

Attributes

- user_id *int*

    - Number associated with the user, incremental.

- flight_id *string*

- can be numeric, alphabetic or a mix of the two. This refers to the flight number of the flight taken by the user.
- example: '21'
- password *string*
  - string containing user password.
  - example: 'iLikeBobaTea1234!'
- user_name *string*
  - string containing user name
  - example 'Lena'
- covid *boolean*
  - boolean, this refers to whether the user has tested positive for covid-19 or not.
  - example: 'false'

- ▼ Methods
  - GET
    - Get methods are not available to maintain user privacy.
  - POST
    - ▼ '/login'

      Authenticate a user and stores their flight_id, covid status, flight_date and user_id into local storage. This way the developer is provided with the data needed to make location queries while user privacy is maintained.

    - ▼ 'register'

      Registers a user. (No Security Token Required)

      If you would like to create an administrative user for your application please contact us.

Locations

This is an object representing locations that your users have visited.

```
{"visit_id":5,"location_name":"Burnaby","covid":false,"user_id":2,"date":"2020-11-26T00:00:00.000Z"},
{"visit_id":7,"location_name":"Oakridge","covid":false,"user_id":1,"date":"2020-12-03T00:00:00.000Z"}
```

Attributes

- location_name *string*
  - For our test application we used Vancouver neighborhoods as the location name. If desired, you can enter geolocation or coordinates into this.
  - example 'Kitsilano'
- covid *boolean*
  - boolean, true if a registered user with covid has visited this location or covid cases have been confirmed in this location
  - example: 'fals
- date *date*
  - date that the user visited the location
  - example '2020-11-17'

- ▼ Methods
  - GET
    - ▼ "/getAllLocations"

      Use Case: Retrieve all locations visited by registered users.
    - ▼ "/getUserLocations/:user_id"

      Display all locations visited by a user with a specific id or the logged in user.
  - POST
    - ▼ "/inputUserLocation"

      Creates a new location entry for the user. (No Security Token Required)
  - DELETE
    - ▼ "/deleteuserLocation"

      Deletes the Location entry for the user. (No Security Token Required)

Contact Us

in https://www.linkedin.com/in/lena-kwan/

in https://www.linkedin.com/in/hannah--chung/