

This project is a NodeJS API application.

Run `npm install` to install dependencies.

Start Server

Run `npm start` to start server, then go to `http://localhost:3000/` to get the API specification shown as below.

```
{
  "API Specification": {
    "/": "Show API Specification",
    "/airports": "Show API Specification",
    "/api/airports?code={code}&country_code={country_code}&international_airport={true|false}&regional_airport={true|false}": "Return airport by filtered by code, country code, international airport flag, regional airport flag",
    "/api/airports/code/:code": "Return airports by filtering airport code",
    "/api/airports/country/:countryCode": "Return airports by filtering country code",
    "/api/airports/international/:internationalFlag": "Return airports by filtering international airport flag",
    "/api/airports/regional/:regionalFlag": "Return airports by filtering regional airport flag"
  }
}
```

The API supports paths including both single parameter only and multiple parameters.

Filtered by multiple parameters:

All parameters are optional. It will return all data if there is no parameter.

```
http://localhost:3000/api/airports?code=CAN&country_code=CN&international_airport=true&regional_airport=false
```

Filtered by single parameter only:

- Get Airport list by filtering airport code[CAN] only.

```
http://localhost:3000/api/airports/code/CAN
```

- Get Airport list by filtering country code[CN] only.

```
http://localhost:3000/api/airports/country/CN
```

- Get Airport list by filtering international_airport[true] only.

```
http://localhost:3000/api/airports/international/true
```

- Get Airport list by filtering regional_airport[true] only.

```
http://localhost:3000/api/airports/regional/true
```

Unit Test (Jasmine)

Run `npm test` to start unit test, you can check the test result on console log.

```
1 Test controller/airportFilter.js
  ✓ Should return airport data while calling AirportFilter.filterByQuery with airport code[CAN], country_code[CN], international_airport[true], regional_
.   ✓ Should return airport data while calling AirportFilter.filterByQuery with invalid airport code[XXXX] (4 secs)
.   ✓ Should return data while calling AirportFilter.filterByCode with airport code[CAD] (4 secs)
.   ✓ Should return InvalidParameterError while calling AirportFilter.filterByCode without airport code (0.001 sec)
```