

## Retrieve list of available Stations (Airports)

Use the Rest API to retrieve the list of available stations.

### Request:

URL	https://mobile-testassets-dev.s3.eu-west-1.amazonaws.com/stations.json
Request Type	GET
Header	Content-type: application/json client: ios

### Sample Response:

```
{
  "stations": [
    {
      "alias": null,
      "alternateName": null,
      "code": "AAR",
      "countryAlias": null,
      "countryCode": "DK",
      "countryGroupCode": "0",
      "countryGroupName": "EU/EEA",
      "countryName": "Denmark",
      "latitude": "561837N",
      "longitude": "0103705E",
      "markets": [
        {
          "code": "AGP"
        },
        {
          "code": "ALC"
        },
        {
          "code": "GRO"
        },
        {
          "code": "PMI"
        },
        {
          "code": "STN"
        }
      ],
      "mobileBoardingPass": true,
      "name": "Aarhus",
      "notices": null,
      "timeZoneCode": "DK"
    },
    ....MORE STATIONS
  ]
}
```

## Search for Flights via Web API

Use the Rest API to retrieve a flight search.

### Request:

URL	<code>https://sit-nativeapps.ryanair.com/api/v4/Availability?origin=DUB&amp;destination=STN&amp;dateout=2020-08-09&amp;datein=&amp;flexdaysbeforeout=3&amp;flexdaysout=3&amp;flexdaysbeforein=3&amp;flexdaysin=3&amp;adt=1&amp;teen=0&amp;chd=0&amp;roundtrip=false&amp;ToUs=AGREED&amp;Disc=0</code>
Request Type	GET
Header	Content-type: application/json client: ios

In this case the user is searching for a flight from DUB (Dublin) to STN (London Stansted) departing on August 9, 2020 for one adult passenger. If you want multiple passengers, just specify the passenger type (adt=1&teen=1&chd=1).

- \* adt = adult
- \* teen = teen
- \* chd = child

### Sample Response:

```
{
  "currency" : "EUR",
  "serverTimeUTC" : "2016-04-11T11:39:35.268Z",
  "currPrecision" : 2,
  "trips" : [
    {
      "origin" : "DUB",
      "destination" : "STN",
      "dates" : [
        {
          "dateOut" : "2016-04-11T00:00:00.000",
          "flights" : [

          ]
        },
        {
          "dateOut" : "2016-04-12T00:00:00.000",
          "flights" : [
            {
              "time" : [
                "2016-04-12T10:00:00.000",
                "2016-04-12T12:50:00.000"
              ],
              "regularFare" : {
                "fareKey" : "0~E~~E9LOW~BND9~~8~X",
                "fareClass" : "E",
                "fares" : [
                  {
                    "amount" : 105.99,
```

```
"count" : 1,
"type" : "ADT",
"hasDiscount" : false,
"publishedFare" : 105.99
},
{
  "amount" : 105.99,
  "count" : 1,
  "type" : "CHD",
  "hasDiscount" : false,
  "publishedFare" : 105.99
},
{
  "amount" : 105.99,
  "count" : 1,
  "type" : "TEEN",
  "hasDiscount" : false,
  "publishedFare" : 105.99
}
]
},
"faresLeft" : -1,
"timeUTC" : [
  "2016-04-12T09:00:00.000Z",
  "2016-04-12T11:50:00.000Z"
],
"duration" : "02:50",
"flightNumber" : "FR 7329",
"infantsLeft" : 18,
"flightKey" : "FR~7329~ ~~LIS~04V12V2016 10:00~DUB~04V12V2016 12:50~",
"businessFare" : {
  "fareKey" : "0~E~~E9LBUS~BS09~~4~X",
  "fareClass" : "E",
  "fares" : [
    {
      "amount" : 154.99,
      "count" : 1,
      "type" : "ADT",
      "hasDiscount" : false,
      "publishedFare" : 154.99
    },
    {
      "amount" : 154.99,
      "count" : 1,
      "type" : "CHD",
      "hasDiscount" : false,
      "publishedFare" : 154.99
    },
    {
      "amount" : 154.99,
      "count" : 1,
      "type" : "TEEN",
      "hasDiscount" : false,
      "publishedFare" : 154.99
    }
  ]
}
```

```
]
}
}
]
},
...
```

## Build a search form

Create a form where the user can make an availability request with the following parameters:

- \* Origin station (origin)
- \* Destination station (destination)
- \* Departure date (dateout)
- \* Adults (adt)
- \* Teen (teen)
- \* Children (chd)

The form should also include a search button to call the server to retrieve the response and present the results on a list with date, flight number and regular fare.

Plus for:

- \* Origin station (origin) – show station list and provide search option by code or name
- \* Destination station (destination) – show station list and provide search option by code or name
- \* Departure date (dateout) – plus to show a date picker or calendar
- \* Adults (adt) – plus to show a picker or increment control with min 1 / max 6
- \* Teen (teen) – plus to show a picker or increment control with min 0 / max 6
- \* Children (chd) – plus to show a picker or increment control with min 0 / max 6

Important note: This is a technical test, do not invest too much time thinking about UI/UX