

NYC Subway Entrances Project

■ The Ask

- Create an Activity (Java or Kotlin) called SubwayEntrances in the provided Android Studio project (details below)
- The purpose of this activity is to show the full list of NYC Subway Entrances to the user. For each subway entrance, following information should be visible to the user:
 - Name of the station
 - Coordinates (Latitude and Longitude)
 - Lines available at the station. For example: 2, 3, A, C, J
- User should have the ability to filter the list by specific line provided at the station. Example: click
 on 2 to only see the stations that support line 2
- UI styles, colors and look/feel of the app is NOT important. The purpose of this exercise is to demonstrate how large chunk of data is processed and utilized while providing a good performance of the application.
- The drawable folder within the project contains an example of what this screen could look like see screen_example.jpg file. Please note that you do not have to use this layout. Any layout that meets the requirements listed above will be accepted.
- Execute the endpoint below to get the list of all possible subway entrances.
 - URL: https://ds-test.riproad.com/RRUtils/subwayEntrances/nyc
 - HTTP Method: P0ST
 - Body (json):
 - timestamp the value of this parameter must be the current timestamp in milliseconds
 - Exmaple:

```
{
    "timestamp": 1604466000000
}
```

- An example of endpoint response body is shown here, where the
 - o NAME is index of 10 and
 - LINE is index of 12
 - The index value can change in the columns . So the logic should be to
 - Find index values in columns where fieldName is
 - name for the station name,
 - the_geom for coordinates and
 - line for subway lines
 - Use those index values to get the data from within the data array

```
{
    "columns": [
        {
            "index": 10,
            "name": "NAME",
            "fieldName": "name"
        },
        {
            "index": 12,
            "name": "LINE",
            "fieldName": "line"
        }
    ],
    "data": [
        [
            "row-dyc7~txm7~3t7a",
            "00000000-0000-0000-FB67-19FB7DFC798D",
            0.0,
            1.483630794E9,
            null,
            1.483630794E9,
            null,
            "{ }",
            "1734",
            "http://web.mta.info/nyct/service/",
            "Birchall Ave & Sagamore St at NW corner", // name
            "POINT (-73.86835600032798 40.84916900104506)", // coordinates
            "2-5" // lines
        ],
        . . .
    ]
}
```

Download Project

- Download the Git project from https://gitlab.riproad.com/subway-entrances/subway-entrancescvansco.git
- This project contains one Activity MainActivity with a single button on it
- SubwayEntrances activity should be launched when user taps on that button

Submission Instructions

• Commit & push your changes to the Git project