API OVERVIEW

Object	Description
API Type	REST
Total API	33

Agency Dashboard

1. **Update logged in user profile data.**
2. **Logged in user can update current password**
    a. **Data need to take from body**
        i. **New password**
        ii. **Confirm password**
3. **Logged in user can see his provided input data**
    a. **Sort by**
        i. **Latest (default)**
        ii. **A – Z by Division**
        iii. **Z – A by Division**
    b. **Search by**
        i. **dataId**
        ii. **Division**
        iii. **pmValue**
    c. **Pagination include**
        i. **Default 5 data will be show**
    d. **Get Data**
        1. **division**
        2. **published date**
        3. **Value of Pm2.5**
        4. **Avg Temperature (Not)**
        5. **Rain Preception (Not)**
        6. **Wind speed (Not)**
        7. **Visibility (Not)**
        8. **Cloud cover (Not)**
        9. **Relative humidity (Not)**
        10. **Station**
        11. **Season**

4. **Logged in agency can change it's title or cover picture**
5. **Logged in user can update his provided input data by dataId**
6. **Logged in user can delete his provided input data by dataId**

7. **Logged in user can input multiple air data**
    a. **Input policy**
        i. **by form (manual type)**
            1. **division**
            2. **date**
            3. **Value of Pm2.5**
            4. **Avg Temperature (Not)**
            5. **Rain Preception (Not)**
            6. **Wind speed (Not)**
            7. **Visibility (Not)**
            8. **Cloud cover (Not)**
            9. **Relative humidity (Not)**
            10. **Station**
            11. **Season**
        ii. **by CSV file (same data)**

8. **Logged in user can input multiple air data daily**
    a. **Input policy**
        i. **by form (manual type)**
            1. **area**
            2. **date**
            3. **latitude**
            4. **longitude**
            5. **median**
            6. **mean**
            7. **max**
            8. **sum**
            9. **count**
        ii. **by CSV file (same data)**

9. Logged in user can see his provided daily input data
    a. Sort by
        i. Latest (default)
        ii. By median (Descending order)
        iii. By mean (Descending order)
        iv. By max (Descending order)
        v. By sum (Descending order)
        vi. By count (Descending order)
    b. Search by
        i. dataId
        ii. Area
    c. Pagination include
        i. Default 5 data will be show
    d. Get Data
        1. area
        2. date
        3. median
        4. mean
        5. max
        6. sum
        7. count
        8. dataId

10. Logged in user can update his provided input daily data by dataId
11. Logged in user can delete his provided input daily data by dataId

Global

1. Create a login api
    a. Take data
        i. Email
        ii. Password
2. Create Forgot password Part 1
    a. Get the email and send a OTP to that email and set a JWT token
3. Create Forgot password Part 2
    a. Take the OTP and send a positive message
4. Create Forgot Password part 3
    a. After verify the OTP now take new password including confirm password and change the password
5. Register a new Agency
    a. Input data

i. Name
ii. Cover pic
iii. Title pic
iv. Country
v. District
vi. Division
vii. Area
viii. Password
ix. Confirm password
x. Email
xi. Motive

6. Logout Api
7. Check the logged in user session

Fetcher

1. Get daily Air Quality Index (AQI) of PM2.5 average of a particular district.
    a. Need to show Daily Average of PM2.5 value of a particular place
    b. Place input will be a option input
2. Get Available division name
3. Get all agency's Average PM2.5 in a daily basis of a particular Season.
    a. Need to find all agency's Daily Avg PM2.5
    b. But only for a selected session data need to be find
    c. Session input will be pass from client
    d. Y axis contains Daily Avg PM2.5 value
    e. X axis contains Daily date
        i. Date will contains => YYYY-MM
4. Get all available session of data
    a. It will give all available session available from the inputted existing data
5. Compare Two Agency's Daily basis Average of PM2.5 value by all year and get it like this [agencyOne Average PM2.5, AgencyTwo average PM2.5]
    a. Need to find Average Value of PM2.5 in a daily basis of Each Agency's
    b. Then show only those value which year client user want to see.
    c. Year will be a range like
        i. Client user want to see All data between 2018 to 2020

        ii. Then show all data between these two year range
6. Get all available Year From the existing data input
7. Get all available agency name with id
8. Show Avg AQI of PM2.5 value of all Division

9. Show AVG AQI of PM2.5 value of all division in many query like
    a. If client want to see Yearly data of All division then
        i. A range between two year will be passed
        ii. Then give all divisions AVG AQI data of between that two Year range.
        iii. In The Y axis PM 2.5 value will be show
        iv. In the X axis Year name will be show
    b. If Client want to see Monthly data of all division the
        i. Client need to mention the year name.
        ii. Then It will show that years all month's Data
        iii. In the Y axis PM2.5 value will be show
        iv. In the X axis Month Name will be show
10. Show Daily AVG AQI of PM2.5 value of all Division
    a. In the X axis Division Name
    b. In the Y axis contains PM2.5 value
11. Show Station wise AVG AQI of PM2.5 value of a particular Agency BY AGENCY ID
    a. In the Y axis contains Pm2.5 value
    b. In the X axis contains Station number
12. Get All station number of by agency Id
    a. Station Number
13. Show Month Wise AVG AQI of PM2.5 value of a particular Station
    a. In the Y axis contains PM 2.5 value
    b. In the X axis contains Month number
    c. Client need to give a Input of Year
    d. With Agency Name and Station number
14. Show Session Wise AVG AQI of PM2.5 value in some query
    a. If user want to see monthly base
        i. Y axis contains PM 2.5 value
        ii. X axis contains Season Name
        iii. But AVG value will be count by individual months of all years
    b. If user want to see yearly base

i. Y axis contains PM 2.5 value
ii. X axis contains Season name
iii. But Value will be count by all year

15. Show AVG PM 2.5 value of each year
    a. Y axis contains PM 2.5 value
    b. X axis contains each Year number
    c. User need to provide a range of year which between he can see such type of data