Air Quality

URL : `/api/air-quality?latitude=[double]&longitude=[double]&timezone=Europe%2FWarsaw`

Mathod : `GET`

Authorize : No

Input Data : No

Success

URL : `/api/air-quality?latitude=50&longitude=20`

Code : `200 OK`

Example :

```
{
    "airQualityIndex": 45,
    "airQualityString": "średnia"
}
```

Error

URL : `/api/air-quality?latitude=350&longitude=20`

Condition : Incorrect latitude or longitude

Code : `404 Not found`

Content : None

Delete Account

URL : `/api/delete-account/`

Method : `POST`

Authorize : Yes

Input Data : No

Success

Code : `200 OK`

Content : No

Geocode

URL : `/api/geocode?name=[string]`

Mathod : `GET`

Authorize : No

Input Data : No

Success

URL : `/api/geocode?name=Cze`

Code : `200 OK`

Example :

```
[
    {
        "id": 3645213,
        "cityName": "Coro",
        "longitude": -69.67344,
        "latitude": 11.4045
    },
    {
        "id": 1846266,
        "cityName": "Czedżu",
        "longitude": 126.52194,
        "latitude": 33.50972
    },
    ...
]
```

Error

URL : `/api/geocode?name=x`

Condition : Incorrect city name

Code : `404 Not found`

Content :

```
{
    "message": "Nie znaleziono miasta o podanej nazwie: x"
}
```

Geocode by Id

URL : /api/geocode-by-id?id=[int]

Mathod : GET

Authorize : No

Input Data : No

Success

URL : /api/geocode-by-id?id=3100946

Code : 200 OK

Example :

```
{
    "id": 3100946,
    "cityName": "Częstochowa",
    "longitude": 19.12409,
    "latitude": 50.79646
}
```

Error

URL : /api/geocode-by-id?id=999999999

Condition : Incorrect city id

Code : 404 Not found

Content :

```
{
    "message": "Nie znaleziono miasta o podanym id: 999999999"
}
```

Get Forecast

Gets forecast for given location. Default value for timezone is "Europe/Warsaw" Default value for model is "dwdicon"

URL : `/api/get-forecast?latitude=[double]&longitude=[double]&timezone=[timezone string?]&model=[dwdicon|ecmwf ?]`

Mathod : `GET`

Authorize : No

Input Data : No

Success

URL : `/api/get-forecast?latitude=19.5&longitude=50.1&model=dwdicon`

Code : `200 OK`

Example :

```
{
    "current": {
        "time": "2023-10-24T17:30:00",
        "wmoCode": 3,
        "wmoString": "Pochmurno",
        "temperature": 11.4,
        "apparentTemperature": 7.9,
        "precipitation": 0,
        "humidity": 81,
        "pressure": 1002.9,
        "windSpeed": 20.5,
        "windDirection": 267,
        "windGusts": 37.8
    },
    "forecast": [
        {
            "time": "2023-10-24T00:00:00",
            "wmoCode": 2,
            "wmoString": "Częściowe zachmurzenie",
            "temperature": 8.1,
            "apparentTemperature": 2.8,
            "precipitation": 0,
            "humidity": 81,
            "pressure": 1009.8,
```

```
            "windSpeed": 28.2,
            "windDirection": 186,
            "windGusts": 45.4
        },
        {
            "time": "2023-10-24T01:00:00",
            "wmoCode": 3,
            "wmoString": "Pochmurno",
            "temperature": 8,
            "apparentTemperature": 2.8,
            "precipitation": 0,
            "humidity": 85,
            "pressure": 1008.9,
            "windSpeed": 28.4,
            "windDirection": 189,
            "windGusts": 45.4
        },
        ...
    ]
}
```

Error

Condition : Longitude or latitude outside its bounds

Code : `404 Not found`

Content :

```
{
    "message": "Nie znaleziono prognozy dla podanej lokalizacji"
}
```

Get Forecast by City

Gets forecast for given city name. Default value for timezone is "Europe/Warsaw" Default value for model is "dwdicon"

URL : `/api/get-forecast-by-city?name=[string]&timezone=[timezone string?]&model=[dwdicon|ecmwf ?]`

Mathod : `GET`

Authorize : No

Input Data : No

Success

URL : `/api/get-forecast-by-city?name=Czestochowa&model=dwdicon`

Code : `200 OK`

Example :

```
{
    "current": {
        "time": "2023-10-24T17:30:00",
        "wmoCode": 3,
        "wmoString": "Pochmurno",
        "temperature": 11.4,
        "apparentTemperature": 7.9,
        "precipitation": 0,
        "humidity": 81,
        "pressure": 1002.9,
        "windSpeed": 20.5,
        "windDirection": 267,
        "windGusts": 37.8
    },
    "forecast": [
        {
            "time": "2023-10-24T00:00:00",
            "wmoCode": 2,
            "wmoString": "Częściowe zachmurzenie",
            "temperature": 8.1,
            "apparentTemperature": 2.8,
            "precipitation": 0,
            "humidity": 81,
            "pressure": 1009.8,
```

```
            "windSpeed": 28.2,
            "windDirection": 186,
            "windGusts": 45.4
        },
        {
            "time": "2023-10-24T01:00:00",
            "wmoCode": 3,
            "wmoString": "Pochmurno",
            "temperature": 8,
            "apparentTemperature": 2.8,
            "precipitation": 0,
            "humidity": 85,
            "pressure": 1008.9,
            "windSpeed": 28.4,
            "windDirection": 189,
            "windGusts": 45.4
        },
        ...
    ]
}
```

Error

Condition : Longitude or latitude outside its bounds or city not found

Code : `404 Not found`

Content :

```
{
    "message": "Nie znaleziono prognozy dla podanej lokalizacji"
}
```

Login

URL : `/api/login/`

Method : `POST`

Authorize : No

Input Data :

```
{
    "Email": "[string]",
    "Password": "[string]"
}
```

Example :

```
{
    "Email": "test@example.com",
    "Password": "zaq1@WSX"
}
```

Success

Code : `200 OK`

Content :

```
{
    "Token": "[token]"
}
```

Example :

```
{
    "Token":
"eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJodHRwOi8vc2NoZW1hcy54bWxzb2FwLm9yZy93cy8yMD
A1LzA1L2lkZW50aXR5L2NsYWltcy9uYW1lIjoic3RyaW5nIiwianRpIjoiNmY0ODQzYWYtNDIwMy00NWQ3LT
k0MjgtNDE0YWUzNmY0MjZiIiwiZXhwIjoxNjk3NDc0NTY0LCJpc3MiOiJodHRwOi8vbG9jYWxob3N0OjYxOT
U1IiwiYXVkIjoiaHR0cDovL2xvY2FsaG9zdDo0MjAwIn0.-
wV4hvEX5gltdZC3MOniLCp3BRU4Y8SWLhPF0sHmSTA"
}
```

Error

Condition : Username or password are incorrect

Code : 401 UNAUTHORIZED

Content : Brak

Register

URL : `/api/register/`

Method : `POST`

Authorize : No

Input Data :

```
{
    "Email": "[string]",
    "Password": "[string]"
}
```

Example :

```
{
    "Email": "test@example.com",
    "Password": "zaq1@WSX"
}
```

Success

Code : `200 OK`

Content :

```
{
    "Status": "Success",
    "Message": "[string]"
}
```

Example :

```
{
    "Status": "Success",
    "Message": "Użytkownik test@example.com utworzony!"
}
```

Error

Condition : If user cannot be created (e.g. already exists)

Code : `500 INTERNAL SERVER ERROR`

Content :

```
{
    "Status": "Error",
    "Message": "Użytkownik z podanym adresem e-mail już istnieje!"
}
```

Change Password

URL : `/api/change-password`

Mathod : `POST`

Authorize : Yes

Input Data :

```
{
    "OldPassword": "[string]",
    "NewPassword": "[string]"
}
```

Example :

```
{
    "OldPassword": "zaq1@WSX",
    "NewPassword": "ZAQ!2wsx"
}
```

Success

URL : `/api/change-password`

Condition : Correct old password and valid new password

Input Data :

```
{
    "OldPassword": "zaq1@WSX",
    "NewPassword": "ZAQ!2wsx"
}
```

Code : `200 OK`

Error

URL : `/api/change-password`

Condition : Incorrect old password

Input Data :

```
{
    "OldPassword": "ZAQ!2wsx",
    "NewPassword": "zaq1@WSX"
}
```

Code : 400 Bad request

Content :

```
[
    {
        "code": "PasswordMismatch",
        "description": "Incorrect password."
    }
]
```

Change Password

URL : /api/get-favourite-locations

Mathod : GET

Authorize : Yes

Input Data : No

Success

URL : /api/get-favourite-locations

Condition : Valid data

Example result :

```
[
    {
        "id": 9,
        "name": "Warszawa",
        "latitude": 52.22977,
        "longitude": 21.01178
    },
    {
        "id": 10,
        "name": "Częstochowa",
        "latitude": 50.49646,
        "longitude": 19.62409
    }
]
```

Code : 200 OK

Error

URL : /api/get-favourite-locations

Condition : Probably some error with token

Code : 400 Bad request

Change Password

URL : /api/add-update-favourite-location

Mathod : POST

Authorize : Yes

Input Data :

```
{
    "Id": "[number]",
    "Name": "[string]",
    "Latitude": "[double]",
    "Longitude": "[double]"
}
```

Example :

```
{
    "Id": 0,
    "Name": "Warszawa",
    "Latitude": 52.22977,
    "Longitude": 21.01178
}
```

Success

URL : /api/add-update-favourite-location

Condition : Valid data

Input Data :

```
{
    "Id": 0,
    "Name": "Warszawa",
    "Latitude": 52.22977,
    "Longitude": 21.01178
}
```

Code : 200 OK

Error

URL : `/api/add-update-favourite-location`

Condition : Incorrect id when updating

Input Data :

```
{
    "Id": 43506,
    "Name": "Warszawa",
    "Latitude": 52.22977,
    "Longitude": 21.01178
}
```

Code : `400 Bad request`

Change Password

URL : /api/delete-favourite-location

Mathod : POST

Authorize : Yes

Input Data :

```
{
    "Id": "[number]",
    "Name": "[string?]",
    "Latitude": "[double?]",
    "Longitude": "[double?]"
}
```

Example :

```
{
    "Id": 2
}
```

Success

URL : /api/delete-favourite-location

Condition : Valid data

Input Data :

```
{
    "Id": 2
}
```

Code : 200 OK

Error

URL : /api/delete-favourite-location

Condition : Incorrect id

Input Data :

```
{
    "Id": 43506
}
```

Code : 400 Bad request