Oddle Backend Challange

Weather Service

**Introduction**

Weather Service are API that can consume by client for get information about Current Weather on Specific City and can saving to the history. Weather Service has 9 API, details down below:

1. Get Current Weather
2. Get All History
3. Add History
4. Update History
5. Delete History
6. Get All City
7. Add City
8. Update City
9. Delete City

**1. Get Current Weather**

**End point**: /weather/current

**Method**: POST

**Request Parameters**:

|  |  |
| --- | --- |
| 1  2  3 | {  "cityName": "Jakarta"  } |

**Success Response:**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39  40  41  42  43  44  45  46  47  48  49 | {  "status": true,  "message": null,  "data": {  "coord": {  "lon": 103.8525,  "lat": 1.3524  },  "weather": [  {  "id": 802,  "main": "Clouds",  "description": "scattered clouds",  "icon": "03d"  }  ],  "base": "stations",  "main": {  "temp": 303.43,  "feels\_like": 307.65,  "temp\_min": 303.1,  "temp\_max": 304.14,  "pressure": 1011,  "humidity": 65  },  "visibility": 10000,  "wind": {  "speed": 5.66,  "deg": 30  },  "clouds": {  "all": 40  },  "dt": 1646026370,  "sys": {  "type": 2,  "id": 265582,  "message": 0,  "country": "SG",  "sunrise": 1646003688,  "sunset": 1646047198  },  "timezone": 28800,  "id": 1882558,  "name": "Thomson Park",  "cod": 200  },  "code": 200  } |

**Error Response:**

|  |  |
| --- | --- |
| 1  2  3  4  5  6 | {  "status": false,  "message": "City not found",  "data": null,  "code": 400  } |

**2. Get All History**

**End point**: /weather/history/all

**Method**: POST

**Request Parameters**:

|  |  |
| --- | --- |
| 1  2  3  4 | {  "dateStart":"",  "dateEnd":""  } |

*\*\*Note1: When the parameter are empty will get all of history****.***

*\*\*Note2: When only dateStart are fill in, so the response will show greater than equals.*

*\*\*Note3: Date formatn for request using “*yyyy-mm-dd HH:mm:ss*” .*

**Success Response:**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33 | {  "status": true,  "message": null,  "data": [  {  "id": "4028e4407f3b20bf017f3b5b524c0000",  "lattitude": -6.210615138218265,  "longitude": 106.83431255201131,  "cityCode": "JKT",  "cityName": "Jakarta",  "mainWeather": "Clouds",  "detailWeather": "overcast clouds",  "weatherIcon": "04n",  "dateAdded": "2022-02-27T13:25:14.000+00:00",  "dateModified": "2022-02-27T13:25:14.000+00:00",  "deleted": false  },  {  "id": "4028e4407f3b82c2017f3b8405e00000",  "lattitude": -6.9191,  "longitude": 107.6226,  "cityCode": "BDG",  "cityName": "Bandung",  "mainWeather": "Clouds",  "detailWeather": "overcast clouds",  "weatherIcon": "04n",  "dateAdded": "2022-02-27T14:09:42.000+00:00",  "dateModified": "2022-02-27T14:09:42.000+00:00",  "deleted": false  }  ],  "code": 200  } |

**Error Response:**

|  |  |
| --- | --- |
| 1  2  3  4  5  6 | {  "status": false,  "message": "City not found",  "data": null,  "code": 400  } |

**3. Add History**

**End point**: /weather/history/add

**Method**: POST

**Request Parameters**:

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11 | [  {  "cityCode":"SBY",  "cityName":"Surabaya",  "lattitude": -7.2579,  "longitude": 112.7459,  "mainWeather":"Clouds",  "detailWeather":"few clouds",  "weatherIcon":"02n"  }  ] |

**Success Response:**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20 | {  "status": true,  "message": null,  "data": [  {  "id": "4028e4407f3ed8d4017f3f3158cf0000",  "lattitude": -7.2579,  "longitude": 112.7459,  "cityCode": "SBY",  "cityName": "Surabaya",  "mainWeather": "Clouds",  "detailWeather": "few clouds",  "weatherIcon": "02n",  "dateAdded": "2022-02-28T07:17:52.975+00:00",  "dateModified": "2022-02-28T07:17:52.975+00:00",  "deleted": false  }  ],  "code": 200  } |

**Error Response:**

|  |  |
| --- | --- |
| 1  2  3  4  5  6 | {  "status": false,  "message": "City not found",  "data": null,  "code": 400  } |

**4. Update History**

**End point**: /weather/history/update

**Method**: PUT

**Request Parameters**:

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8 | {  "id": "4028e4407f3b82c2017f3b851bf60001",  "cityCode": "SBY",  "cityName": "Surabaya",  "mainWeather": "Clouds",  "detailWeather": "broken clouds",  "weatherIcon": "04n"  } |

**Success Response:**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18 | {  "status": true,  "message": null,  "data": {  "id": "4028e4407f3b82c2017f3b851bf60001",  "lattitude": -7.2579,  "longitude": 112.7459,  "cityCode": "SBY",  "cityName": "Surabaya",  "mainWeather": "Clouds",  "detailWeather": "broken clouds",  "weatherIcon": "04n",  "dateAdded": "2022-02-27T14:10:53.000+00:00",  "dateModified": "2022-02-28T07:17:24.972+00:00",  "deleted": true  },  "code": 200  } |

**Error Response:**

|  |  |
| --- | --- |
| 1  2  3  4  5  6 | {  "status": false,  "message": "City not found",  "data": null,  "code": 400  } |

**5. Delete History**

**End point**: /weather/history/delete/{{historyId}}

**Method**: DELETE

**Request Parameters**:

|  |  |  |  |
| --- | --- | --- | --- |
| Key | Value | Type | Description |
| historyId | uuid | Url Path | ID History Weather |

**Success Response:**

|  |  |
| --- | --- |
| 1  2  3  4  5  6 | {  "status": true,  "message": null,  "data": "Success delete history data",  "code": 200  } |

**Error Response:**

|  |  |
| --- | --- |
| 1  2  3  4  5  6 | {  "status": false,  "message": "Data with ID 4028e4407f3b82c2017f3b851bf60aas001 Not found",  "data": null,  "code": 400  } |

**6. Get All City**

**End point**: /city/all

**Method**: GET

**Success Response:**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35 | {  "status": true,  "message": null,  "data": [  {  "id": 1,  "cityCode": "JKT",  "cityName": "Jakarta",  "lattitude": -6.210615138218265,  "longitude": 106.83431255201131  },  {  "id": 2,  "cityCode": "BDG",  "cityName": "Bandung",  "lattitude": -6.919122431828124,  "longitude": 107.62255521444817  },  {  "id": 4,  "cityCode": "SGP",  "cityName": "Singapore",  "lattitude": 1.3524378613687702,  "longitude": 103.85247775769068  },  {  "id": 5,  "cityCode": "SGP",  "cityName": "Singapore",  "lattitude": 1.3524378613687702,  "longitude": 103.85247775769068  }  ],  "code": 200  } |

**Error Response:**

|  |  |
| --- | --- |
| 1  2  3  4  5  6 | {  "status": false,  "message": "Data with ID 4028e4407f3b82c2017f3b851bf60aas001 Not found",  "data": null,  "code": 400  } |

**7. Add City**

**End point**: /city/add

**Method**: POST

**Request Parameters**:

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8 | [  {  "cityCode":"SGP",  "cityName":"Singapore",  "lattitude": 1.3524378613687702,  "longitude": 103.85247775769068  }  ] |

**Success Response:**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14 | {  "status": true,  "message": null,  "data": [  {  "id": 5,  "cityCode": "SGP",  "cityName": "Singapore",  "lattitude": 1.3524378613687702,  "longitude": 103.85247775769068  }  ],  "code": 200  } |

**Error Response:**

|  |  |
| --- | --- |
| 1  2  3  4  5  6 | {  "status": false,  "message": "Data with ID 4028e4407f3b82c2017f3b851bf60aas001 Not found",  "data": null,  "code": 400  } |

**8. Update City**

**End point**: /city/update

**Method**: PUT

**Request Parameters**:

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7 | {  "id": 3,  "cityCode": "SBY",  "cityName": "Surabaya Go",  "lattitude": -7.257926810260998,  "longitude": 112.74588510937296  } |

**Success Response:**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12 | {  "status": true,  "message": null,  "data": {  "id": 3,  "cityCode": "SBY",  "cityName": "Surabaya Go",  "lattitude": -7.257926810260998,  "longitude": 112.74588510937296  },  "code": 200  } |

**Error Response:**

|  |  |
| --- | --- |
| 1  2  3  4  5  6 | {  "status": false,  "message": "Data with ID 4028e4407f3b82c2017f3b851bf60aas001 Not found",  "data": null,  "code": 400  } |

**9. Delete City**

**End point**: /city/delete/{{cityId}}

**Method**: DELETE

|  |  |  |  |
| --- | --- | --- | --- |
| Key | Value | Type | Description |
| cityId | Base64(cityId) | Url Path | Base64 value from City ID |

**Success Response:**

|  |  |
| --- | --- |
| 1  2  3  4  5  6 | {  "status": true,  "message": null,  "data": "Success to delete data",  "code": 200  } |

**Error Response:**

|  |  |
| --- | --- |
| 1  2  3  4  5  6 | {  "status": false,  "message": "Data with ID 4028e4407f3b82c2017f3b851bf60aas001 Not found",  "data": null,  "code": 400  } |