Bike rental API specification

List of all endpoints

All endpoints to be prepended by /api/v1.

🏙️ Cities

GET /cities
GET /cities/{id}
POST /cities
PUT /cities
DELETE /cities/{id}

🏙️ Cities

GET /cities

Get a JSON-representation of all cities.

Sample request

```
GET /api/v1/cities
```

Response

```
[
    {
        "id": 1,
        "name": "Karlskrona",
        "lat": 56.193,
        "lon": 15.628,
        "dlat": 0.02,
        "dlon": 0.03
    },
    {
        "id": 2,
        "name": "Stockholm",
        "lat": 59.325,
        "lon": 18.071,
        "dlat": 0.08,
        "dlon": 0.2
    }
```

```
]

HTTP Status Code: 200 OK
```

Note: `dlat` and `dlon` denote city extension northwards and eastwards respectively.

GET /cities/{id}

Get a JSON-representation of a specific city.

Sample request

```
GET /api/v1/cities/1
```

Response

```
{
    "id": 1,
    "name": "Karlskrona",
    "lat": 56.193,
    "lon": 15.628,
    "dlat": 0.02,
    "dlon": 0.03
}

HTTP Status Code: 200 OK
```

Note: `dlat` and `dlon` denote city extension northwards and eastwards respectively.

POST /cities

Add a new city.

Sample request

```
POST /api/v1/cities
```

Required body keys

(currently x-www-form-urlencoded)

```
name
lat  = latitude
lon  = longitude
```

```
dlat = north-south extension of city (≈radius)
dlon = east-west extension of city (≈radius)
```

Response (success)

```json
{
    "count": 1,
    "newId": 3,
    "message": "Ok"
}

HTTP Status Code: 201 Created
```

Note: `count` is inserted row count and `newId` is the id of added city.

Response (failure, name already exists)

```json
{
    "count": 0,
    "newId": -1,
    "message": "UNIQUE constraint failed: cities.name"
}

HTTP Status Code: 400 Bad Request
```

PUT /cities

Update a city.

Sample request

```
PUT /api/v1/cities
```

Required body keys
(currently x-www-form-urlencoded)

```
id   = city id to update
name = new name
lat  = latitude
lon  = longitude
dlat = north-south extension of city (≈radius)
dlon = east-west extension of city (≈radius)
```

Response (success)

```json
{
    "count": 1,
```

```
    "message": "Ok"
}

HTTP Status Code: 200 OK
```

Note: `count` is updated row count.

Response (failure, name already exists)

```
{
    "count": 0,
    "message": "UNIQUE constraint failed: cities.name"
}

HTTP Status Code: 400 Bad Request
```

Response (failure, id not found)

```
{
    "count": 0,
    "message": "id not found"
}

HTTP Status Code: 400 Bad Request
```

DELETE /cities/{id}

Delete a city.

Sample request

```
DELETE /api/v1/cities/1
```

Response (success)

```
{
    "count": 1,
    "message": "Ok"
}

HTTP Status Code: 200 OK
```

Note: `count` is deleted row count.

Response (failure, id not found)

```
{
    "count": 0,
    "message": "id not found"
}
```

HTTP Status Code: 400 Bad Request

```
{
    "count": 0,
    "message": "id not found"
}
```

HTTP Status Code: 400 Bad Request