

## GET api/station

### *Description:*

Gets a list of all stations

### *Returns:*

200 OK

```
[
  {
    "station_id":1,
    "stationCode":"501",
    "name":"Hanasaari",
    "address":"Hanasaarenranta 1",
    "city":"Espoo",
    "xpos":24.8403,
    "ypos":60.1658
  },
  {
    "station_id":2,
    "stationCode":"503",
    "name":"Keilalahti",
    "address":"Keilalahdentie 2",
    "city":"Espoo",
    "xpos":24.8275,
    "ypos":60.1715
  },
  ...
]
```

## POST api/station/page

### Description:

Gets a page of stations, searched or filtered (optional)

### Parameters:

```
{
  "curPage": "1",
  "pageLen": "10",
  "searchTerm": "",
  "filterCity": "Espoo"
}
```

<b>curPage</b>	The current page
<b>pageLen</b>	The size of the page
<b>searchTerm</b>	A search term, empty: no search
<b>filterCity</b>	"Helsinki" or "Espoo", empty: no filtering

### Returns:

200 OK

```
{
  "content":
    [
      {
        "station_id":1,
        "stationCode":"501",
        "name":"Hanasaari",
        "address":"Hanasaarenranta 1",
        "city":"Espoo",
        "xpos":24.8403,
        "ypos":60.1658
      },
      {
        "station_id":2,
        "stationCode":"503",
        "name":"Keilalahti",
        "address":"Keilalahdentie 2",
        "city":"Espoo",
        "xpos":24.8275,
        "ypos":60.1715
      },
      ...
    ],
  "pageable":
```

```

    {
      "sort":
        {
          "empty":true,
          "sorted":false,
          "unsorted":true
        },
      "offset":0,
      "pageNumber":0,
      "pageSize":10,
      "paged":true,"unpaged":false
    },
    "totalPages":46,
    "totalElements":460,
    "last":false,
    "size":10,
    "number":0,
    "sort":
      {
        "empty":true,
        "sorted":false,
        "unsorted":true
      },
    "numberOfElements":10,
    "first":true,
    "empty":false
  }

```

**totalPages**            How many pages of the specified size there are altogether (for client-side navigation)

**content**             The list of stations

### *Errors:*

400 Bad request      Parameters are missing

## GET api/station/{station\_id}

### Description:

Gets the data for the specified station

### Returns:

200 OK

```
{
  "dailyReturnsToStation":
    [
      {
        "date": "2021-05-03",
        "count": 1
      },
      {
        "date": "2021-05-04",
        "count": 2
      },
      {
        "date": "2021-05-05",
        "count": 1
      },
      ...
    ]
  "address": "Golfpolku 3",
  "yPos": 60.1681,
  "numDepartures": 484,
  "city": "Espoo",
  "averageReturnDistance": 3298.0,
  "xPos": 24.7961,
  "dailyDeparturesFromStation":
    [
      {
        "date": "2021-05-03",
        "count": 2
      },
      {
        "date": "2021-05-04",
        "count": 1
      },
      {
        "date": "2021-05-05",
        "count": 3
      },
      ...
    ]
  "name": "Golfpolku",
  "returnedToFromStationRanked":
```

```

    [
        "Länsituuli",
        "Revontulentie",
        "Lauttasaaren ostoskeskus",
        "Hanasaari",
        "Koivusaari (M)"
    ],
    "numReturns":492,
    "departedFromToStationRanked":
    [
        "Länsituuli",
        "Suomenlahdentie",
        "Piispansilta",
        "Niittymaa",
        "Golfpolku"
    ],
    "averageDepartureDistance":3239.0
}

```

<b>dailyDeparturesFromStation</b>	List of daily counts for graph
<b>dailyReturnsToStation</b>	List of daily counts for graph
<b>returnedToFromStationRanked</b>	List of most popular return stations
<b>departedFromToStationRanked</b>	List of most popular departure stations

#### *Errors:*

404 Not found      An station with this *station\_id* does not exist

## POST api/journey/page

### Description:

Gets a page of journeys, sorted or filtered (optional)

### Parameters:

```
{
  "curPage": "1",
  "pageLen": "10",
  "sortField": "duration",
  "sortOrder": "ascend",
  "filterDeparture": "metro",
  "filterReturn": ""
}
```

<b>curPage</b>	The current page
<b>pageLen</b>	The size of the page
<b>sortField</b>	"duration" or "distance", empty: no sorting
<b>sortOrder</b>	"ascend" or "descend"
<b>filterDeparture</b>	"metro" or "train", empty: no filtering
<b>filterReturn</b>	"metro" or "train", empty: no filtering

### Returns:

200 OK

```
{
  "content":
    [
      {
        "departureDate": "2021-06-30",
        "returnDate": "2021-07-01",
        "departureStationCode": "107",
        "departureStationName": "Tenholantie",
        "returnStationCode": "111",
        "returnStationName": "Esterinportti",
        "distance": 1847.0,
        "duration": 407
      },
      {
        "departureDate": "2021-06-30",
        "returnDate": "2021-07-01",
        "departureStationCode": "009",
        "departureStationName": "Erottajan aukio",
        "returnStationCode": "040",
        "returnStationName": "Hakaniemi (M)",

```

```

        "distance":1602.0,
        "duration":405
      }
      ...
    ],
    "pageable":
    {
      "sort":
      {
        "empty":true,
        "sorted":true,
        "unsorted":false
      },
      "offset":0,
      "pageNumber":0,
      "pageSize":10,
      "paged":true,"unpaged":false
    },
    "totalPages":323,
    "totalElements":3230,
    "last":false,
    "size":10,
    "number":0,
    "sort":
    {
      "empty":true,
      "sorted":true,
      "unsorted":false
    },
    "numberOfElements":10,
    "first":true,
    "empty":false
  }

```

**totalPages**      How many pages of the specified size there are altogether (for client-side navigation)

**content**      The list of journeys

#### *Errors:*

400 Bad request      Parameters are missing

## POST api/station

### *Description:*

Adds a new station

### *Parameters:*

```
{  
  "stationCode": "500",  
  "name": "Hanasaari",  
  "address": "Hanasaarenranta 1",  
  "city": "Espoo",  
  "xpos": 24.8403,  
  "ypos": 60.1658  
},
```

### *Returns:*

201 Created

### *Errors:*

400 Bad request    Parameters have the wrong format

500 Server error    The new station could not be added



## **DELETE api/station/{station\_id}**

### *Description:*

Deletes the specified station

### *Returns:*

200 OK

### *Errors:*

404 Not found      An station with this *station\_id* does not exist