

Gemeente Amsterdam API

Project: Crowdedness Gemeente Amsterdam

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Code: <https://bitbucket.org/quantillion/gemeente-amsterdam-api>

Introduction

Gemeente Amsterdam API was build to enable the communication between the Gemeente Amsterdam database with information about scraped locations and the front-end. The API allows a user to make several types of requests that retrieve data from the database.

Endpoints

Base path of the API: <http://apis.quantillion.io:3001/gemeenteamsterdam>

Path	Input	Output	Description
<code>/realtime</code>	Query parameters: <ul style="list-style-type: none">limit - number of locations in the results array (e.g. '100')skip - number of locations to skip before getting the results (e.g. '500')	array of locations with live data	Get the list of all locations.
<code>/realtime/current</code>	Query parameters: <ul style="list-style-type: none">limit - number of locations in the results array (e.g. '100')skip - number of locations to skip before getting the results (e.g. '500')	array of locations with live data	Get the last status update for each location.
<code>/realtime/{type}</code>	Path parameters: <ul style="list-style-type: none">type - location type (e.g. 'point_of_interest') Query parameters: <ul style="list-style-type: none">limit - number of locations in the results array (e.g. '100')skip - number of locations to skip before getting the results (e.g. '500')	array of locations with live data	Get the list of all locations by type.
<code>/realtime/timerange</code>	Query parameters: <ul style="list-style-type: none">startDate - beginning of time range (e.g. '01-01-2018')endDate - end of time range (e.g. '01-01-2018')limit - number of locations in the results array (e.g. '100')skip - number of locations to skip before getting the results (e.g. '500')	array of locations with live data	Get the list of all locations scraped between two dates
<code>/realtime/area</code>	Query parameters: <ul style="list-style-type: none">centre - an array with geographical coordinates (latitude, longitude) of the centre of the chosen area (e.g. [54.30, 16.67])diameter - distance from the centre in km (e.g. 10)	array of locations with live data	Get the list of all locations in around a certain geo point.

<code>/expected</code>	<p>Query parameters:</p> <ul style="list-style-type: none"> limit - number of locations in the results array (e.g. '100') skip - number of locations to skip before getting the results (e.g. '500') 	array of locations with expected data	Get the list of all locations.
<code>/expected/current</code>	<p>Query parameters:</p> <ul style="list-style-type: none"> limit - number of locations in the results array (e.g. '100') skip - number of locations to skip before getting the results (e.g. '500') 	array of locations with expected data	Get the last status update for each location.
<code>/expected/{type}</code>	<p>Path parameters:</p> <ul style="list-style-type: none"> type - location type (e.g. 'point_of_interest') <p>Query parameters:</p> <ul style="list-style-type: none"> limit - number of locations in the results array (e.g. '100') skip - number of locations to skip before getting the results (e.g. '500') 	array of locations with exoected data	Get the list of all locations by type.
<code>/expected/timerange</code>	<p>Query parameters:</p> <ul style="list-style-type: none"> startDate - beginning of time range (e.g. '01-01-2018') endDate - end of time range (e.g. '01-01-2018') limit - number of locations in the results array (e.g. '100') skip - number of locations to skip before getting the results (e.g. '500') 	array of locations with expected data	Get the list of all locations scraped between two dates
<code>/expected/area</code>	<p>Query parameters:</p> <ul style="list-style-type: none"> centre - an array with geographical coordinates (latitude, longitude) of the centre of the chosen area (e.g. [54.30, 16.67]) diameter - distance from the centre in km (e.g. 10) 	array of locations with expected data	Get the list of all locations in around a certain geo point.
<code>/locations [DEPRECATED]</code>	<p>Query parameters:</p> <ul style="list-style-type: none"> limit - number of locations in the results array (e.g. '100') skip - number of locations to skip before getting the results (e.g. '500') 	array of locations	Get the list of all locations.
<code>/locations/realtime [DEPRECATED]</code>	<p>Query parameters:</p> <ul style="list-style-type: none"> limit - number of locations in the results array (e.g. '100') skip - number of locations to skip before getting the results (e.g. '500') 	array of locations	Get the list of all locations with real-time data.
<code>/locations/realtime/current [DEPRECATED]</code>	<p>Query parameters:</p> <ul style="list-style-type: none"> limit - number of locations in the results array (e.g. '100') skip - number of locations to skip before getting the results (e.g. '500') 	array of locations	Get the last status update for each location with real-time data.
<code>/locations/expected [DEPRECATED]</code>	<p>Query parameters:</p> <ul style="list-style-type: none"> limit - number of locations in the results array (e.g. '100') skip - number of locations to skip before getting the results (e.g. '500') 	array of locations	Get the list of all locations with expected data.

<code>/locations/current</code> [DEPRECATED]	<p>Query parameters:</p> <ul style="list-style-type: none"> limit - number of locations in the results array (e.g. '100') skip - number of locations to skip before getting the results (e.g. '500') 	array of locations	Get the last status update for each location.
<code>/locations/{type}</code> [DEPRECATED]	<p>Path parameters:</p> <ul style="list-style-type: none"> type - location type (e.g. 'point_of_interest') <p>Query parameters:</p> <ul style="list-style-type: none"> limit - number of locations in the results array (e.g. '100') skip - number of locations to skip before getting the results (e.g. '500') 	array of locations	Get the list of all locations by type.
<code>/locations/timerange</code> [DEPRECATED]	<p>Query parameters:</p> <ul style="list-style-type: none"> startDate - beginning of time range (e.g. '01-01-2018') endDate - end of time range (e.g. '01-01-2018') limit - number of locations in the results array (e.g. '100') skip - number of locations to skip before getting the results (e.g. '500') 	array of locations	Get the list of all locations scraped between two dates
<code>/locations/area</code> [DEPRECATED]	<p>Query parameters:</p> <ul style="list-style-type: none"> centre - an array with geographical coordinates (latitude, longitude) of the centre of the chosen area (e.g. [54.30, 16.67]) diameter - distance from the centre in km (e.g. 10) 	array of locations	Get the list of all locations in around a certain geo point.

Output

All GET requests to any `/realtime` endpoints results into an array of LiveLocations objects. The schema of each item of this array is the following:

```
Category:
type: string
ScrapeTime:
type: string
url:
type: string
place_id:
type: string
Expected:
type: string
BatchTime:
type: string
VisitDuration:
type: string
Real-time:
type: string
Name:
type: string
location:
type: object
items:
type: string
coordinates: string
items: number
formatted_address:
type: string
types:
type: array
items:
type: string
```

All GET requests to any [/expected](#) endpoints results into an array of ExpectedLocations objects. The schema of each item of this array is the following:

```
Category:
type: string
ScrapeTime:
type: string
url:
type: string
place_id:
type: string
Expected:
type: array
items:
type: object
items:
TimeInterval: string
ExpectedValue: number
BatchTime:
type: string
VisitDuration:
type: string
Real-time:
type: string
Name:
type: string
location:
type: object
items:
type: string
coordinates: string
items: number
formatted_address:
type: string
types:
type: array
items:
type: string
```