

Cahernanolmo Property API

The main objective of this document is to outline the Design & Architecture of the System. It also captures the request/response details of the POST method.

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Version History

Version	Date	Description
v1.0	2020-09-16	Initial version of functionality explanation

Keyword & Vocabulary

Keyword	Description

Tools & Technologies

- Python/Django
- Docker
- Visual Studio Code

Authentication

In order to use this API, you must have a valid api key for use this method. For testing/development purposes following API Keys could be used to authenticate:

Sr #	API KEY
1.	ce9d77b308c149d5992a80073637e4d5
2.	ce9d77b308c149d5992a80073637e4d6

POST Method

The method could be used to obtain a list of properties given a set of filters.

Request

Required Parameters

Following are the required parameters:

Parameter	Comments
APIKEY	In order to get authenticated on the API
latitude	latitude of the location point (geographic coordinates)
longitude	longitude of the location point ((geographic coordinate)
ad_operation	Number value with following options: <ul style="list-style-type: none">● 0-All● 1-sales● 2-rent
ad_typology	Number value with following options: <ul style="list-style-type: none">● 0-ALL● 1 -Vivienda● 4 -Garaje● 5 -Oficina● 6 -Locales● 8 -Garajes● 10 -Obra_Nueva● 12 -Terreno● 13 -Edificios
ad_owner_type	Number value with following options: <ul style="list-style-type: none">● 0-ALL● 1-Particular● 2-Profesional

Optional Parameters

Following are the optional parameters:

Parameter	Comments
minPrice	[0..n]
maxPrice	[0..n]
order	On which field, records needs to be ordered, following are the options: <ul style="list-style-type: none">● distance● price● rooms
sort	Following options: <ul style="list-style-type: none">● asc - Ascending Order● desc - Descending Order

Sample JSON for POST

```
{
  "APIKEY": "ce9d77b308c149d5992a80073637e4d5",
  "longitude": 40.3171899,
  "latitude": -3.18253,
  "distance": 100,
  "ad_operation": 1,
  "ad_typology": 1,
  "ad_owner_type": 2,
  "minPrice": 1000,
  "maxPrice": 120000,
  "order": "distance",
  "sort": "desc"
}
```

Response

Success Response

Success response will be an array of objects, following is the sample response:

```
[
  {
    "index_key": 4089,
    "distance": 0.582,
    "location_exact": true,
    "latitude": -3.1790756,
    "longitude": 40.3211321,
    "price": 114000,
    "price_down": null,
    "price_percen": null,
    "urlid": "88861767",
    "url": "https://www.idealista.com/inmueble/88861767/",
    "title": "Casa o chalet independiente en venta en calle del Chopo, 9",
    "daystamp": "2020-05-17",
    "timestamp": "2020-05-17 21:13:39",
    "image_01":
  }
```

```
"https://img3.idealista.com/blur/WEB_DETAIL_TOP-XL-L/0/id.pro.es.image.master/db/4f/8e/757261148.jpg",
",
  "image_02":
"https://img3.idealista.com/blur/WEB_DETAIL-XL-L/0/id.pro.es.image.master/9b/81/5a/757261149.jpg",
  "image_03":
"https://img3.idealista.com/blur/WEB_DETAIL-XL-L/0/id.pro.es.image.master/64/b6/5d/757261150.jpg",
  "advertiser_firstname": "Solvía inmobiliaria",
  "advertiser_name": "\"Solvía inmobiliaria\"",
  "phonenumber_0": "965 095 581",
  "phonenumber_1": null,
  "stats_date_act": "2020-03-04",
  "ad_address_locationId": "0-EU-ES-28-05-008-011",
  "ad_address_municipalityId": "0-EU-ES-28-05-008-011",
  "ad_address_provinceId": "0-EU-ES-28",
  "ad_energyCertification_suffix": "spainDefault",
  "ad_energyCertification_type": "g",
  "ad_id": "88861767",
  "ad_owner_commercialId": "solvía",
  "ad_origin": "4",
  "ad_characteristics_hasGarden": "1",
  "comment": "\"Encuentra Pisos de Segunda Mano en Ambite.Se encuentra equipada con armarios empotrados y calefacción. La mejor oferta inmobiliaria de Viviendas de segunda mano",
  "location_tree": "Cuenca del Tajo-Tajuña, Madrid | Ambite | Urb. 35548-0001 | Calle del Chopo, 9",
  "location_zone": "Ambite",
  "charac_basic": "\"Casa o chalet independiente | 98 m² construidos | 3 habitaciones | 2 baños | Terraza | Certificación energética: (IPE no indicado)\"",
  "charac_equip": "\"Jardín\"",
  "ad_address_locationLevel": 6,
  "ad_characteristics_bathNumber": 2,
  "ad_characteristics_constructedArea": 98,
  "ad_characteristics_roomNumber": 3,
  "ad_media_photoNumber": 16,
  "ad_media_videoNumber": 0,
  "ad_operation": 1,
  "ad_owner_contactPreference": 1,
  "ad_owner_type": 2,
  "ad_price": 114000,
  "ad_typology": 1,
```

```
"ad_builtType": 0,  
"ad_characteristics_hasParking": false,  
"ad_characteristics_hasSwimmingPool": false,  
"ad_characteristics_hasTerrace": true  
},  
]
```

Error Response

Following are possible error responses:

Invalid JSON Input:

```
{  
  "detail": "JSON parse error"  
}
```

Required Parameters Missing:

```
{  
  "code": 400,  
  "error_code": "RequiredParametersMissing",  
  "message": "Required parameters are missing: distance,ad_operation,ad_typology,ad_owner_type"  
}
```

Invalid API Key:

```
{  
  "code": 401,  
  "error_code": "InvalidAPIKey",  
  "message": "Invalid API Key"  
}
```

Order Attribute Not Found:

```
{  
  "code": 400,
```

```
"error_code": "OrderAttributeNotFound",  
"message": "Order attribute is not found. Available options are: rooms,price,distance"  
}
```