

# Assignment API Doc Version

Time	Version	Description
2022-11-20	V1.0	Draft

## 1、Tell the population within an area.

- Method: HTTP GET
- Encoding: UTF-8
- Test Endpoint1: [http://43.134.198.137:5000/api/v1/mock/pop\\_in\\_area](http://43.134.198.137:5000/api/v1/mock/pop_in_area)  
(This endpoint will return random population , only for simple test)
- Test Endpoint2: [http://43.134.198.137:5000/api/v1/pop\\_in\\_area](http://43.134.198.137:5000/api/v1/pop_in_area)
- Description: Tell the population living within an area.

## Request Header

Parameter	Required	Type	Description
Content-Type	N	String	application/json

## Request Parameters

Parameter	Required	Type	Description
longitude	Y	Float	The degree of longitude between [-180, 180]
latitude	Y	Float	The degree of latitude between [-180, 180]

radius	Y	Float	The distance from current location (Unit: km). Must be positive and less than 6000KM.
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## Response Parameters

Parameter	Required	Type	Description
population	N	integer	The population number in the given area
error_msg	N	String	Error message

## Request Sample

Find population in 50 kilometers:

curl

```
"http://43.134.198.137:5000/api/v1/mock/pop_in_area?longitude=121.3&latitude=31
&radius=50"
```

curl

```
"http://43.134.198.137:5000/api/v1/pop_in_area?longitude=121.3&latitude=31&radiu
s=50"
```

curl

```
"http://43.134.198.137:5000/api/v1/pop_in_area?longitude=191.3&latitude=31&radiu
s=50"
```

curl

[http://43.134.198.137:5000/api/v1/pop\\_in\\_area?longitude=191.3&latitude=111&radius=50](http://43.134.198.137:5000/api/v1/pop_in_area?longitude=191.3&latitude=111&radius=50)

Find population in 100 kilometers:

curl

"http://43.134.198.137:5000/api/v1/pop\_in\_area?longitude=191.3&latitude=111&radius=-100"

## Successful Response Sample

```
{  
  "population": 19223  
}
```

## Failed Response Sample

```
{"error_msg": "{ 'latitude': ['Must be greater than or equal to -90 and less than or equal to 90.'], 'longitude': ['Must be greater than or equal to -90 and less than or equal to 180.']}"}  
}
```