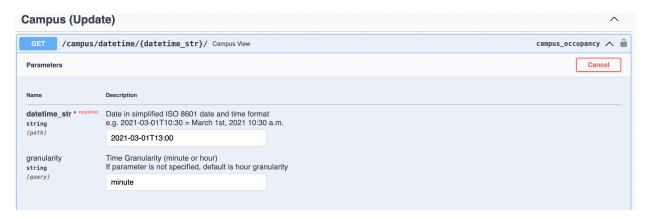
API Documentation

Campus View API (Minute)

API Endpoint: http://localhost:8000/api/v1/campus/datetime/2021-03-01T13:00/? granularity=minute

Return Value: Returns amount of devices connected to each building at specific minute of time specified in endpoint

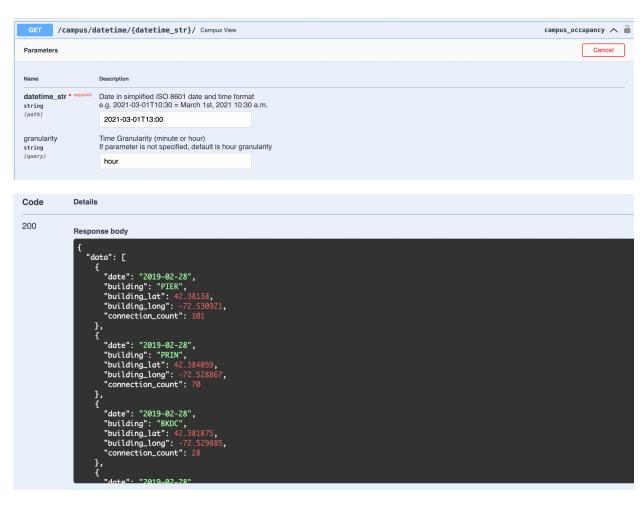


```
200
              Response body
                  "data": [
                       "date": "2019-02-28",
                       "building": "PRIN",
                       "building_lat": 42.384059,
"building_long": -72.528867,
                       "connection_count": 52
                       "date": "2019-02-28",
                       "building": "BKDC",
                       "building_lat": 42.381875,
"building_long": -72.529885,
                       "connection_count": 17
                       "date": "2019-02-28",
                       "building": "SC",
"building_lat": 42.389545,
                       "building_long": -72.529299,
                       "connection_count": 2
                                                                                                                 Download
```

Campus View API (Hour)

API Endpoint: http://localhost:8000/api/v1/campus/datetime/2021-03-01T13:00/? granularity=hour

Return Value: Returns amount of devices that connected to each building on campus within hour with start time being specified in parameter



Building View API (Minute)

API Endpoint: http://localhost:8000/api/v1/building/LSL/datetime/2021-03-01T13:00/? granularity=minute

Return Value: Returns amount of devices that connected to specified building at specific minute specified in endpoint



```
Code Details

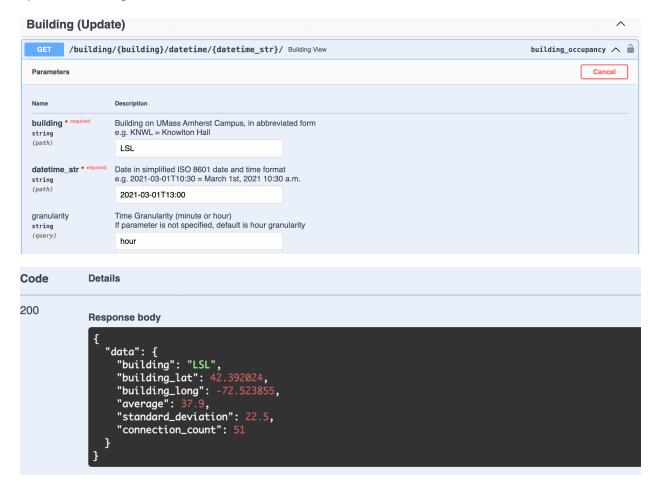
Response body

{
    "data": {
        "building": "LSL",
        "building_lat": 42.392024,
        "building_long": -72.523855,
        "connection_count": 35
    }
}
```

Building View API (Hour)

API Endpoint: http://localhost:8000/api/v1/building/LSL/datetime/2021-03-01T13:00/? granularity=hour

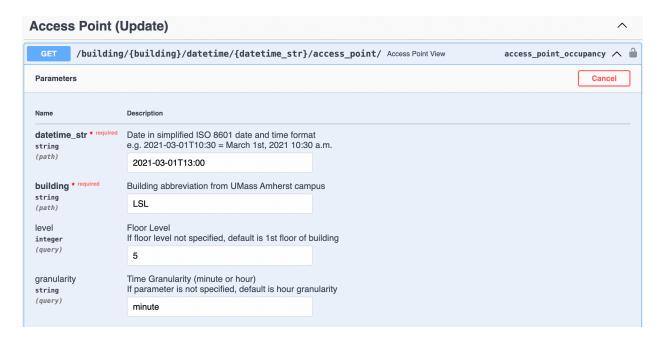
Return Value: Returns amount of devices that connected to each building on campus within hour with start time being specified in parameter + average time and standard deviation of time spent at building

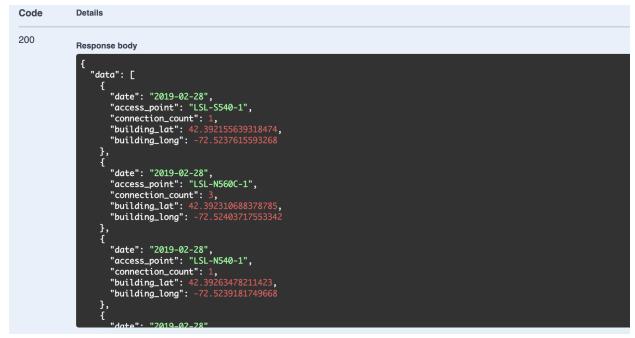


Access Point View API (Minute & Floor 5)

API Endpoint: http://localhost:8000/api/v1/building/LSL/datetime/2021-03-01T13:00/access_point/?level=5&granularity=minute

Return Value: Returns amount of devices that connected to access points of specified building at a specified floor and time from endpoint

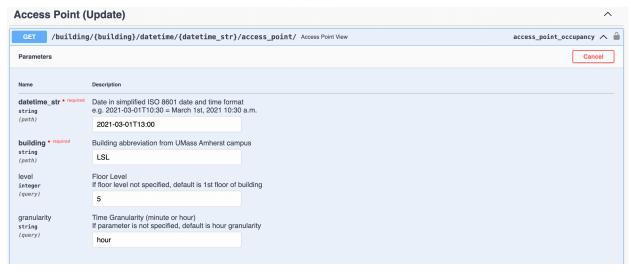




Access Point View API (Hour & Floor 5)

API Endpoint: http://localhost:8000/api/v1/building/LSL/datetime/2021-03-01T13:00/access_point/?level=5&granularity=hour

Return Value: Returns amount of devices that were connected to access points of the specific building and floor within hour with start time being specified in parameter



Route Trajectory

API Endpoint: http://172.20.10.3:8000/api/v1/trajectory/Y4kGl.FiowcKk0z8xyTEjU/date/2013-11-29/

Return Value: Returns list of buildings that device stayed in for more than 10 minutes on specific date



```
Code
            Details
200
            Response body
               "data": [
                 {
                     "building": "DRA",
                     "building_lat": 42.392516,
                     "building_long": -72.528405,
                     "start_time": "3:49 am",
                     "end_time": "4:07 am",
                     "total_time": 18
                   },
                     "building": "LAPT",
                     "building_lat": 42.383416,
                     "building_long": -72.525621,
                     "start_time": "5:36 am",
                     "end_time": "5:50 am",
                     "total_time": 14
                   },
                     "building": "HOLD",
                     "building_lat": 42.392793,
                     "building_long": -72.530913,
                     "start_time": "5:52 am",
                     "end_time": "6:24 am",
                     "total_time": 32
```

```
In []:
```