Final Project: API Spec

CS 493: Cloud Application Development

Spring 2023

Oregon State University

URL: https://cloud-assignments-final.uw.r.appspot.com/

Change log

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Change log

Version	Change	Date
1.0	Initial version.	June 12, 2023

Data Model

The app stores three kinds of entities in Datastore, Users, Devices, and Tests.

Users

Property	Data Type	Notes
id	String	The id of the user. This is equivalent to the 'sub' property.
name	String	Name of the User.
email	String	The email of the user
devices	List	The list of User Devices

Devices

Property	Data Type	Notes
id	String	The id of the Device (Generated)
DeviceName	String	Name of the Device. (must be less than 255 chars)
deviceType	String	Must be from the following selection: ["E9"]
deviceBrand	String	Must be from the following selection: ["Dell"]
owner_id	String	The id of the User that owns this device
tests	List	Contains all tests that belong to this device.
self	String	Not Stored - Device URI

Tests

Property	Data Type	Notes
id	String	The id of the Device (Generated)
ClientIP	String	The Cient IP Address (must be less than 255 chars)
UploadValue	Float	The Upload Speed Value
DownloadRetrans Value	Float	The DownloadRetransValue
DownloadRetrans Unit	String	Must be from the following selection: ["%"]
DownloadUUID	String	Must be less than 255 chars
DownloadUnit	String	Must be from the following selection: ["Mbit/s"]
DownloadValue	Float	The Download Value speed
MinRTTUnit	String	Must be from the following selection: ["ms"]
MinRTTValue	Float	Float
MurakamiConnect ionType	String	Must be from the following selection: ["wired", "wireless"]
MurakamiLocation	String	The location of the test
MurakamiNetwork Type	String	Must be from the following selection: ["home", "commercial"]
ServerIP	String	The Server IP address
ServerName	String	The server name

TestEndTime	String	Must be in ISO format ["%Y-%m-%dT%H:%M:%S.%f"]
TestName	String	Name of the Test. (must be less than 255 chars)
TestStartTime	String	Must be in ISO format ["%Y-%m-%dT%H:%M:%S.%f"]
UploadUnit	String	Must be from the following selection: ["Mbit/s"]
device_id	Int (Optional)	The device that this test is assigned to.
self	String	Not Stored - Test URI

Create a Device

Allows you to create a new device.

POST /devices

Request

Path Parameters

None

Request Body

Required

Request Body Format

JSON

Request JSON Attributes

All Strings must be less than 255 characters.

Property	Data Type	Required?
DeviceName	String	Yes
DeviceType	String	Yes
DeviceBrand	String	Yes

Request Body Example

```
{
    "DeviceName": "Test_Device_01",
    "DeviceType":"E9",
    "DeviceBrand":"Dell"
}
```

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	201 Created	
Failure	400 Bad Request	If the request is missing any of the 3 required attributes, the attributes do not meet the above requirements, or it has additional attributes the device must not be created and 400 status code must be returned.
Failure	401 Forbidden	If a user is not authenticated, the device is not created and a 401 status code is returned.
Failure	406 Invalid Accept Header	If the request's Accept header does not include 'application/json', the 406 status code is returned.

Response Examples

• Datastore will automatically generate an ID and store it with the entity being created. The app sends back this value in the response body as shown in the example.

Success

```
Status: 201 Created

{
    "DeviceName": "Test_Device_01",
    "DeviceType": "E9",
    "DeviceBrand": "Dell",
    "owner_id": "auth0|646bfc2e2b851c3fe65fa8ba",
    "tests": [],
    "id": 5361805077512192,
    "self": "https://cloud-assignments-final.uw.r.appspot.com/devices/5361805077512192"
}
```

```
Status: 400 Bad Request
{
    "Error": "The request object is missing at least one of the required
attributes or has an additional attribute."
}

Status: 401 Unauthorized
{
    "code": "no auth header",
    "description": "Authorization header is missing"
}

Status: 403 Forbidden
{
    "Error": "Unauthorized action."
}

Status: 406 NOT ACCEPTABLE
{
    "Error": "Not Acceptable - Invalid Accept Header"
}
```

Get a Device

Allows you to get an existing device

```
GET /device/:device_id
```

Request

Path Parameters

Name	Description
device_id	ID of the device

Request Body

None

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	401 Forbidden	If a user is not authenticated a 401 status code is returned.
Failure	403 Forbidden	If an authenticated user does not own the requested resource, a 401 status code is returned.
Failure	404 Not Found	No device with this device_id exists
Failure	406 Not Acceptable	Invalid MIME type was provided in request header

Response Examples

Success

```
Status: 404 Not Found

{
"Error": "No device with this device_id exists"
}
_______
Status: 401 Forbidden
```

```
{
    "code": "no auth header",
    "description": "Authorization header is missing"
}

Status: 403 Forbidden
{
    "Error": "Unauthorized action."
}

Status: 406 Not Acceptable
{
    "Error": "Not Acceptable - Invalid Accept Header"
}
```

Edit a Device (PATCH)

Allows you to edit a device. At least one attribute must be provided.

PATCH /devices/:device_id

Request

Path Parameters

Name	Description
device_id	ID of the device

Request Body

Required

Request Body Format

JSON

Request JSON Attributes

Name	Data Type	Required?
DeviceName	String	No
DeviceType	String	No
DeviceBrand	String	No

Request Body Example

```
{
    "DeviceName": "Updated_Test_Device_01",
    "DeviceType":"E9",
    "DeviceBrand":"Dell"
}
```

Response

Response Body Format

JSON (Failure)

Response Statuses

Outcome	Status Code	Notes
Success	204 No Content	
Failure	400 Bad Request	If the request does not have a valid attribute or contains invalid attributes (such as ID), the device is not updated, and 400 status code must be returned.
Failure	404 Not Found	No device with this device_id exists
Failure	401 Forbidden	If a user is not authenticated a 401 status code is returned.
Failure	403 Forbidden	If an authenticated user does not own the requested resource, a 401 status code is returned.
Failure	406 Not Acceptable	Invalid MIME type was provided in request header

Failure

Status: 400 Bad Request

```
{
    "Error": "The request object is missing at least one of the required attributes or has an additional attribute."
}

Status: 404 Not Found

{
    "Error": "No device with this device_id exists"
}

Status: 401 Forbidden
{
    "code": "no auth header",
    "description": "Authorization header is missing"
}

Status: 403 Forbidden
{
    "Error": "Unauthorized action."
}

Status: 406 Not Acceptable
{
    "Error": "Not Acceptable - Invalid Accept Header"
}
```

Edit a Device (PUT)

Allows you to edit a Device. All attributes must be provided.

PUT /devices/:device_id

Request

Path Parameters

Name	Description
device_id	ID of the device

Request Body

Required

Request Body Format

JSON (Failure)

Request JSON Attributes

Name	Data Type	Required?
DeviceName	String	Yes
DeviceType	String	Yes
DeviceBrand	String	Yes

Request Body Example

```
{
    "DeviceName": "Updated_Test_Device_01",
    "DeviceType":"E9",
    "DeviceBrand":"Dell"
}
```

Response

Response Body Format

None (JSON on Failure)

Response Statuses

Outcome	Status Code	Notes
Success	204 No Content	
Failure	400 Bad Request	If the request does not have a valid attribute or contains invalid attributes (such as ID), the device is not updated, and 400 status code must be returned.
Failure	404 Not Found	No device with this device_id exists
Failure	401 Forbidden	If a user is not authenticated a 401 status code is returned.
Failure	403 Forbidden	If an authenticated user does not own the requested resource, a 401 status code is returned.
Failure	406 Not Acceptable	Invalid MIME type was provided in request header

Failure

Status: 400 Bad Request

```
{
    "Error": "The request object is missing at least one of the required attributes or has an additional attribute."
}

Status: 404 Not Found

{
    "Error": "No device with this device_id exists"
}

Status: 401 Forbidden
{
    "code": "no auth header",
    "description": "Authorization header is missing"
}

Status: 403 Forbidden
{
    "Error": "Unauthorized action."
}

Status: 406 Not Acceptable
{
    "Error": "Not Acceptable - Invalid Accept Header"
}
```

Delete a Device

Allows you to delete a Device.

```
DELETE /devices/:device_id
```

Request

Path Parameters

Name	Description
device_id	ID of the device

Request Body

None

Response

No body

Response Body Format

Success: No body

Failure: JSON

Response Statuses

Outcome	Status Code	Notes
Success	204 No Content	
Failure	404 Not Found	No device with this device_id exists
Failure	401 Forbidden	If a user is not authenticated a 401 status code is
		returned.
Failure	403 Forbidden	If an authenticated user does not own the requested
		resource, a 401 status code is returned.

Response Examples

Success

Status: 204 No Content

```
Status: 404 Not Found
{
    "Error": "No device with this device_id exists"
}

Status: 401 Forbidden
{
        "code": "no auth header",
            "description": "Authorization header is missing"
}

Status: 403 Forbidden
{
        "Error": "Unauthorized action."
}
```

Get All Devices

Allows you to get all devices

GET /devices

Request

Path Parameters

None

Request Body

None

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	401 Forbidden	If a user is not authenticated a 401 status code is returned.
Failure	405 Method Not Allowed	Invalid Method is sent to the endpoint.
Failure	406 Not Acceptable	Invalid MIME type was provided in request header

Response Examples

Success

```
Status: 401 Forbidden
{
    "code": "no auth header",
    "description": "Authorization header is missing"
```

```
Status: 405 Method Not Allowed

Status: 406 Not Acceptable
{
    "Error": "Not Acceptable - Invalid Accept Header"
}
```

Get All Users

Allows you to get all Users

GET /users

Request

Path Parameters

None

Request Body

None

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	405 Method Not	Invalid Method is sent to the endpoint.
	Allowed	
Failure	406 Not Acceptable	Invalid MIME type was provided in request header

Response Examples

Success

```
Status: 405 Method Not Allowed

Status: 406 Not Acceptable
{
    "Error": "Not Acceptable - Invalid Accept Header"
}
```

Get A User

Allows you to view a user's JWT

GET /users/:user_id

Request

Path Parameters

None

Request Body

None

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	

Response Examples

Success

```
Status: 200 OK
User's JWT
Unique ID = sub
```

```
Status: 405 Method Not Allowed

Status: 406 Not Acceptable
{
    "Error": "Not Acceptable - Invalid Accept Header"
}
```

Create a Test

Allows you to create a new test.

POST /tests

Request

Path Parameters

None

Request Body

Required

Request Body Format

JSON

Request JSON Attributes

All Strings must be less than 255 characters.

Property	Data Type	Description	Required?
ClientIP	String	The Client IP Address (must be less than 255 chars)	Yes
UploadValue	Float	The Upload Speed Value	Yes
DownloadRetransVal ue	Float	The DownloadRetransValue	Yes
DownloadRetransUni t	String	Must be from the following selection: ["%"]	Yes
DownloadUUID	String	Must be less than 255 chars	Yes
DownloadUnit	String	Must be from the following selection: ["Mbit/s"]	Yes
DownloadValue	Float	The Download Value speed	Yes
MinRTTUnit	String	Must be from the following selection: ["ms"]	Yes
MinRTTValue	Float	Float	Yes
MurakamiConnection String Type		Must be from the following selection: ["wired", "wireless"]	Yes
MurakamiLocation	String	The location of the test	Yes
MurakamiNetworkTy pe	String	Must be from the following selection: ["home", "commercial"]	Yes
ServerIP	String	The Server IP address	Yes
ServerName	String	The server name	Yes
TestEndTime	String	Must be in ISO format ["%Y-%m-%dT%H:%M:%S.%f"]	Yes
TestName	String	Name of the Test. (must be less than 255 chars)	Yes
TestStartTime	String Must be in ISO format ["%Y-%m-%dT%H:%M:%S.%f"]		Yes
UploadUnit	String	Must be from the following selection: ["Mbit/s"]	Yes
device_id Int The device that this		The device that this test is assigned to.	No

Request Body Example

{

```
"TestName": "ndt5",
"TestStartTime": "2022-11-22T02:08:25.543610",
"TestEndTime": "2022-11-22T02:08:46.339942",
"MurakamiLocation": "dellemc2",
"MurakamiConnectionType": "wired",
"MurakamiNetworkType": "home",
"ServerName": "ndt-iupui-mlab1-sea07.mlab-oti.measurement-lab.org",
"ServerIP": "2001:2030:0:a::139",
"ClientIP": "6f26:8b25:5195:67d5:ad2c:61f0:1b41:c46b",
"DownloadUUID": "ndt-l4w6d_1667169943_unsafe_0000000000FCF56",
"DownloadValue": 674.0850946394074,
"DownloadUnit": "Mbit/s",
"UploadValue": 36.527,
"UploadUnit": "Mbit/s",
"DownloadRetransValue": 0.0,
"DownloadRetransUnit": "%",
"MinRTTValue": 24.327,
"MinRTTUnit": "ms",
"device id": 5673082664517632
```

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	201 Created	
Failure	400 Bad Request	If the request is missing any of the 3 required attributes, the attributes do not meet the above requirements, or it has additional attributes the device must not be created and 400 status code must be returned.
Failure	401 Forbidden	If a user is not authenticated, the device is not created and a 401 status code is returned.
Failure	406 Invalid Accept Header	If the request's Accept header does not include 'application/json', the 406 status code is returned.
Failure	404 Not Found	No device/test with this device_id/test_id exists

Response Examples

• Datastore will automatically generate an ID and store it with the entity being created. The app sends back this value in the response body as shown in the example.

Success

```
"TestEndTime": "2022-11-22T02:08:46.339942",
"MurakamiLocation": "dellemc2",
"MurakamiConnectionType": "wired",
"MurakamiNetworkType": "home",
"ServerName": "ndt-iupui-mlab1-sea07.mlab-oti.measurement-lab.org",
"ServerIP": "2001:2030:0:a::139",
"ClientIP": "6f26:8b25:5195:67d5:ad2c:61f0:1b41:c46b",
"DownloadUUID": "ndt-l4w6d 1667169943 unsafe 0000000000FCF56",
"DownloadValue": 674.0850946394074,
"DownloadUnit": "Mbit/s",
"UploadValue": 36.527,
"UploadUnit": "Mbit/s",
"DownloadRetransValue": 0.0,
"DownloadRetransUnit": "%",
"MinRTTValue": 24.327,
"MinRTTUnit": "ms",
"device id": 5673082664517632,
"id": 5633378543992832,
"self": "http://localhost:8080/tests/5633378543992832"
```

```
Status: 400 Bad Request
{
       "Error": "The request object is missing at least one of the required
attributes or has an additional attribute."
}
Status: 404 Not Found
{
       "Error": "No device with this device id exists."
}
OR
{
       "Error": "No test with this test id exists."
}
Status: 401 Unauthorized
       "code": "no auth header",
       "description": "Authorization header is missing"
}
Status: 403 Forbidden
       "Error": "Unauthorized action."
}
```

Get a Test

Allows you to get an existing test

```
GET /test/:test_id
```

Request

Path Parameters

Name	Description
test_id	ID of the test

Request Body

None

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	401 Forbidden	If a user is not authenticated a 401 status code is returned.
Failure	404 Not Found	No test with this test_id exists
Failure	406 Not Acceptable	Invalid MIME type was provided in request header

Response Examples

Success

```
Status: 200 OK
       "TestName": "ndt5",
       "TestStartTime": "2022-11-22T02:08:25.543610",
       "TestEndTime": "2022-11-22T02:08:46.339942",
       "MurakamiLocation": "dellemc2",
       "MurakamiConnectionType": "wired",
       "MurakamiNetworkType": "home",
       "ServerName": "ndt-iupui-mlab1-sea07.mlab-oti.measurement-lab.org",
       "ServerIP": "2001:2030:0:a::139",
       "ClientIP": "6f26:8b25:5195:67d5:ad2c:61f0:1b41:c46b",
       "DownloadUUID": "ndt-l4w6d_1667169943_unsafe_0000000000FCF56",
       "DownloadValue": 674.0850946394074,
       "DownloadUnit": "Mbit/s",
       "UploadValue": 36.527,
       "UploadUnit": "Mbit/s",
       "DownloadRetransValue": 0.0,
       "DownloadRetransUnit": "%",
       "MinRTTValue": 24.327,
       "MinRTTUnit": "ms",
```

```
"device_id": 5673082664517632,

"id": 5633378543992832,

"self": "http://localhost:8080/tests/5633378543992832"
}
```

```
Status: 404 Not Found
{
   "Error": "No test with this test_id exists"
}

Status: 401 Forbidden
{
    "code": "no auth header",
    "description": "Authorization header is missing"
}

Status: 406 Not Acceptable
{
    "Error": "Not Acceptable - Invalid Accept Header"
}
```

Edit a Test (PATCH)

Allows you to edit a test. At least one attribute must be provided.

PATCH /tests/:test_id

Request

Path Parameters

Name	Description
test_id	ID of the test

Request Body

Required

Request Body Format

JSON

Request JSON Attributes

Property	Data Type	Description	Required?
ClientIP	String	The Client IP Address (must be less than 255 chars)	No
UploadValu e	Float	The Upload Speed Value	No
DownloadR etransValu e	Float	The DownloadRetransValue	No
DownloadR etransUnit	String	Must be from the following selection: ["%"]	No
Download UUID	String	Must be less than 255 chars	No
Download Unit	String	Must be from the following selection: ["Mbit/s"]	No
DownloadV alue	Float	The Download Value speed	No
MinRTTUni t	String	Must be from the following selection: ["ms"]	No
MinRTTVal ue	Float	Float	No
MurakamiC onnectionT ype	String	Must be from the following selection: ["wired", "wireless"]	No
MurakamiL ocation	String	The location of the test	No
Murakami NetworkTy pe	String	Must be from the following selection: ["home", "commercial"]	No
ServerIP	String	The Server IP address	No

ServerNam	String	The server name	No
е			
TestEndTim	String	Must be in ISO format ["%Y-%m-%dT%H:%M:%S.%f"]	No
е			
TestName	String	Name of the Test. (must be less than 255 chars) No	
TestStartTi	String	Must be in ISO format ["%Y-%m-%dT%H:%M:%S.%f"] No	
me	_		
UploadUnit	String	Must be from the following selection: ["Mbit/s"] No	
device_id	Int	The device that this test is assigned to. No	

Request Body Example

```
{
    "TestName": "ndt5",
    "TestStartTime": "2022-11-22T02:08:25.543610",
    "TestEndTime": "2022-11-22T02:08:46.339942",
}
```

Response

Response Body Format

JSON (Failure)

Response Statuses

Outcome	Status Code	Notes
Success	204 No Content	
Failure	400 Bad Request	If the request does not have a valid attribute or contains invalid attributes (such as ID), the test is not updated, and 400 status code must be returned.
Failure	404 Not Found	No test/device with this test_id/device_id exists
Failure	401 Forbidden	If a user is not authenticated a 401 status code is returned.
Failure	406 Not Acceptable	Invalid MIME type was provided in request header

```
Status: 400 Bad Request

{
    "Error": "The request object is missing at least one of the required
attributes or has an additional attribute."
}

Status: 404 Not Found

{
    "Error": "No device with this device_id exists"
}
```

```
Status: 401 Forbidden
{
    "code": "no auth header",
    "description": "Authorization header is missing"
}

Status: 406 Not Acceptable
{
    "Error": "Not Acceptable - Invalid Accept Header"
}
```

Edit a Test(PUT)

Allows you to edit a test. All attributes must be provided.

PUT /tests/:test_id

Request

Path Parameters

Name	Description
test_id	ID of the test

Request Body

Required

Request Body Format

JSON (Failure)

Request JSON Attributes

Property	Data Type	Description	Required?
ClientIP	String	The Client IP Address (must be less than 255 chars)	Yes
UploadVal ue	Float	The Upload Speed Value	Yes
Download RetransVa lue	Float	The DownloadRetransValue	Yes
Download RetransU nit	String	Must be from the following selection: ["%"]	Yes
Download UUID	String	Must be less than 255 chars	Yes
Download Unit	String	Must be from the following selection: ["Mbit/s"]	Yes
Download Value	Float	The Download Value speed	Yes
MinRTTU nit	String	Must be from the following selection: ["ms"]	Yes
MinRTTVa lue	Float	Float	Yes
Murakami Connectio nType	String	Must be from the following selection: ["wired", "wireless"]	Yes
Murakami Location	String	The location of the test	Yes
Murakami NetworkT ype	String	Must be from the following selection: ["home", "commercial"]	Yes

ServerIP	String	The Server IP address Yes	
ServerNa	String	The server name	Yes
me			
TestEndTi	String	Must be in ISO format	Yes
me		["%Y-%m-%dT%H:%M:%S.%f"]	
TestName	String	Name of the Test. (must be less than 255 chars) Yes	
TestStartT	String	g Must be in ISO format Yes	
ime		["%Y-%m-%dT%H:%M:%S.%f"]	
UploadUn	String	Must be from the following selection: ["Mbit/s"] Yes	
it			
device_id	Int	The device that this test is assigned to.	

Request Body Example

```
"TestName": "ndt5",
"TestStartTime": "2022-11-22T02:08:25.543610",
"TestEndTime": "2022-11-22T02:08:46.339942",
"MurakamiLocation": "dellemc2",
"MurakamiConnectionType": "wired",
"MurakamiNetworkType": "home",
"ServerName": "ndt-iupui-mlab1-sea07.mlab-oti.measurement-lab.org",
"ServerIP": "2001:2030:0:a::139",
"ClientIP": "6f26:8b25:5195:67d5:ad2c:61f0:1b41:c46b",
"DownloadUUID": "ndt-l4w6d_1667169943_unsafe_0000000000FCF56",
"DownloadValue": 674.0850946394074,
"DownloadUnit": "Mbit/s",
"UploadValue": 36.527,
"UploadUnit": "Mbit/s",
"DownloadRetransValue": 0.0,
"DownloadRetransUnit": "%",
"MinRTTValue": 24.327,
"MinRTTUnit": "ms",
"device_id": 5673082664517632,
"id": 5633378543992832
```

Response

Response Body Format

None (JSON on Failure)

Response Statuses

Outcome	Status Code	Notes
Success	204 No Content	
Failure	400 Bad Request	If the request does not have a valid attribute or contains invalid attributes (such as ID), the device is not updated, and 400 status code must be returned.
Failure	404 Not Found	No device with this device_id exists

Failure	401 Forbidden	If a user is not authenticated a 401 status code is returned.
Failure	406 Not Acceptable	Invalid MIME type was provided in request header

```
Status: 400 Bad Request

{
    "Error": "The request object is missing at least one of the required attributes or has an additional attribute."
}

Status: 404 Not Found

{
    "Error": "No device with this device_id exists"
}

Status: 401 Forbidden
{
    "code": "no auth header",
    "description": "Authorization header is missing"
}

Status: 406 Not Acceptable
{
    "Error": "Not Acceptable - Invalid Accept Header"
}
```

Delete a Test

Allows you to delete a test.

```
DELETE /tests/:test_id
```

Request

Path Parameters

Name	Description
test_id	ID of the test

Request Body

None

Response

No body

Response Body Format

Success: No body

Failure: JSON

Response Statuses

Outcome	Status Code	Notes
Success	204 No Content	
Failure	404 Not Found	No test with this test_id exists
Failure	401 Forbidden	If a user is not authenticated a 401 status code is
		returned.

Response Examples

Success

```
Status: 204 No Content
```

Failure

```
Status: 404 Not Found
{
   "Error": "No device with this device_id exists"
}

Status: 401 Forbidden
{
    "code": "no auth header",
    "description": "Authorization header is missing"
}
```

Get All Tests

Allows you to get all tests

```
GET /tests
```

Request

Path Parameters

None

Request Body

None

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	401 Forbidden	If a user is not authenticated a 401 status code is returned.
Failure	405 Method Not Allowed	Invalid Method is sent to the endpoint.
Failure	406 Not Acceptable	Invalid MIME type was provided in request header

Response Examples

Success

```
Status: 200 OK
       "entities": [
       "TestEndTime": "2022-11-22T02:08:46.339942",
       "DownloadRetransValue": 0.0,
       "UploadUnit": "Mbit/s",
       "MinRTTValue": 24.327,
       "DownloadUnit": "Mbit/s",
       "MurakamiNetworkType": "home",
       "DownloadValue": 674.0850946394074,
       "UploadValue": 36.527,
       "MurakamiConnectionType": "wired",
       "device_id": 5673082664517632,
       "MurakamiLocation": "dellemc2",
       "MinRTTUnit": "ms",
       "ServerName": "ndt-iupui-mlab1-sea07.mlab-oti.measurement-lab.org",
       "TestStartTime": "2022-11-22T02:08:25.543610",
       "ServerIP": "2001:2030:0:a::139",
       "DownloadRetransUnit": "%",
       "TestName": "ndt5",
       "DownloadUUID": "ndt-l4w6d_1667169943_unsafe_0000000000FCF56",
       "ClientIP": "6f26:8b25:5195:67d5:ad2c:61f0:1b41:c46b",
       "id": 4789736740749312,
       "self": "https://cloud-assignments-final.uw.r.appspot.com/tests/4789736740749312"
```

```
...
"count": 6,
"next": "https://cloud-assignments-final.uw.r.appspot.com/tests?limit=5&offset=5"
}
```

```
Status: 401 Forbidden
{
        "code": "no auth header",
        "description": "Authorization header is missing"
}
Status: 405 Method Not Allowed
Status: 406 Not Acceptable
{
        "Error": "Not Acceptable - Invalid Accept Header"
}
```