API testing

# Purpose

Testing to ensure that the returned data is correct and to ensure that any updates requests are executed on the database side. The API assumes that when sending arguments or bodies that these are correct for processing.

<http://localhost:8000/docs> will provide the documentation to the API, this is where you can also test from.

Device Config:

This is data that is passed too and from the front end. This data is used for thresholds and assigned truck information.

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| **API Endpoint** | **Test** | **Result** |
| Config/ | Update new user\_id, same device\_name | Pass, new entry created |
| Config/ | Update new device\_name, same user\_id | Pass, new entry created |
| Config/ | Update present device\_name & user\_id. Updating all other fields | Pass, user and device stay the same and all other fields are updated |
| Config/ |  |  |
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Device Data:

This is data that is added from the device through the MQTT protocol through the Node-Red Application. The API is used for only GET request to retrieve this information in a controlled form.

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| **API Endpoint** | **Test** | **Result** |
| device/ | Get all distinct device names | Pass, all device names returned |
| device/{device\_name} | Get all entries for a given device name | Pass, all entries are returned for a given device name |
| device/getlast24hours | Get all entries for all devices over the last 24 hours | Pass, only data from the last 24 hours are returned |
| device/alerts/{from, to} | Get all alerts within a time range | Pass, all alerts retuned from a given range |
| Device/alertsClear/  {device\_name} | Updates all fields for device alerts from True to False | Pass, all flags changed to False |
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User Data:

Data managed by front end to create, update, and manage logins

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| **API Endpoint** | **Test** | **Result** |
| users/ | Get all distinct device names | Pass, all device names returned |
| users/{user\_name} | Get all entries for a given device name | Pass, all entries are returned for a given device name |
| user/getlast24hours | Get all entries for all devices over the last 24 hours | Pass, only data from the last 24 hours are returned |
| device/alerts/{from, to} | Get all alerts within a time range | Pass, all alerts retuned from a given range |
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