

# ECE 413 Final Documentation

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## Links

The git repository for the server can be found here:

<https://github.com/chrisdruta/uvfit-iot-final>

Server URLs:

Ipv4: <http://54.219.141.28:3000>

Public Dns: [ec2-54-219-141-28.us-west-1.compute.amazonaws.com:3000](http://ec2-54-219-141-28.us-west-1.compute.amazonaws.com:3000)

Pitch Video: [YouTube](#)

Code Video: [YouTube](#)

## Endpoint for Grader

Either register or you can login with this information that has device data as well.

Example login:

Email: [tyler1@alpha.com](mailto:tyler1@alpha.com)

Password: Password1

## Adding and Removing Devices

On the home screen, click on the add device button and type in the device id for your Photon, then click the submit button will show you the API key for that device ID. Record this because right now there is no way to view it again. There will be a delete device button for each photon ID, which as you guess removes them from the user's devices and the device from the database.

## Account Information

The account information view can be accessed through the hamburger navigation bar on the left side under 'Account'. Here you can view all account information, and update any field once you click the 'Update Information' button.

## Signing Out

In order to logout (clear local storage of authentication token), simply open up the navigation menu and click 'Sign Out' at the bottom.

# API Endpoint Spec Out

## users.js

### POST /users/login

Checks user credentials and provides an auth token

Input:

JSON object containing items with keys: email, password

Output:

JSON containing jwt or error

### POST /users/register

Creates a new user in the db

Input:

JSON object containing items with keys: email, name, password

Output:

JSON containing registration information or error

### GET /users/info

Returns a JSON of user's information

Input:

Encoded JWT in header

Output:

JSON containing user information

### PUT /users/info

Updates a user's information

Input:

Encoded JWT in header

JSON object containing items to update with required password

Output:

JSON containing success status and list of errors that occurred

## GET /users/config

Returns user's personal UV level

Input:

Encoded JWT in header

Output:

JSON containing success status and UV configuration

## GET /users/devices

Returns a JSON of user's device's information

Input:

Encoded JWT in header

Output:

JSON containing an array of user's device's information

## GET /users/activities

Returns list of user's activities

Input:

Encoded JWT in header

Output:

JSON containing an array of user's activities

## devices.js

### POST /devices/register

Register a new photon device

Input:

Encoded JWT in header

JSON containing device photonId

Output:

JSON containing success status and auth key

## DELETE /devices/remove

Removes specified device

Input:

Encoded JWT in header

JSON containing device photonId

Output:

JSON containing success status

## POST /devices/data

Sends data to device data buffer on server

Input:

JSON containing photonID and sensor readings

Output:

JSON containing success status