

API Documentation

Resource (Endpoint and parameters)	Request verb	Description	Notes
Endpoints for Device Data			
/devices/register	POST	<p>Register a new device.</p> <p>Parameters (JSON):</p> <pre>{ "deviceId": "11f4baaef3445ff", "email": "test@example.com"}</pre> <p>Response (JSON):</p> <p>Success (201):</p> <pre>{ "registered": true, "message": "Device ID: 11f4baaef3445ff was registered.", "apikey": "ghj6b5fsr7md4b61"}</pre> <p>Failure (400):</p> <pre>{ "registered": false, "message": "Device ID 11f4baaef3445ff already registered."}</pre>	
/devices/all	GET	<p>Get an overview of all devices registered to a user [Requires JWT header "x-auth"]</p> <p>Response (JSON):</p> <p>Success (201):</p> <pre>{ "success": true, "devices": [{ "deviceId": "11f4baaef3445ff", "apikey": "ghj6b5fsr7md4b61", "lastContact": "2018-11-08T00:44:58.335Z" }, ...]}</pre> <p>Failure (400):</p> <pre>{ "success": false "message": "an Error message"}</pre>	
/devices/remove/devId	DELETE	<p>Delete device from system [Requires JWT header "x-auth"]</p> <p>Response (JSON):</p> <p>Success (201):</p> <pre>{ "success": true, "message": "Device 627881645163918725351736 has been removed from the system"}</pre> <p>Failure (400):</p> <pre>{ "success": false "message": "an Error message"}</pre>	
/devices/status/devId	GET	<p>Get device status for device with specified ID</p> <p>Parameters (URL encoded):</p> <p>all or specific device ID</p> <p>Response (JSON):</p> <p>Success (200):</p> <p>If devId is all, return all database documents for all devices, otherwise return all database documents for the specified devId.</p> <p>Failure (400):</p> <p>If error retrieving data from database, return JSON with error message.</p> <pre>{ "message": "Some sort of error message here."}</pre>	
Endpoints for User Data			
/users/register	POST	<p>Register a new user</p> <p>Parameters (JSON):</p> <pre>{ "email": "test@example.com", "fullName": "Testy McTestface", "password": "password"}</pre> <p>Response (JSON):</p> <p>Success (201):</p> <pre>{ "registered": true, "message": "Testy McTestface has been created."}</pre> <p>Failure (400):</p> <pre>{ "registered": false, "message": "Some sort of error message here."}</pre>	

		<p>Get user's account information [Requires JWT header "x-auth"]</p> <p>Response (JSON):</p> <p>Success (201):</p> <pre>{ "success": true, "email": "test@gmail.com", "fullName": "Testy McTestface", "lastAccess": "2018-11-08T00:44:58.335Z", "devices": [{ "deviceId": "11f4baaef3445ff", "apiKey": "ghj6b5fsr7md4b61" }] ... }</pre> <p>Failure (401):</p> <pre>{ "success": false, "message": "No/Invalid authentication token." }</pre> <p>Failure (201):</p> <pre>{ "success": false, "message": "User does not exist." }</pre>		
/users/account	GET			
		<p>Update user's account information [Requires JWT header "x-auth"]</p> <p>Parameters (JSON):</p> <pre>{ "email": "test@example.com" }</pre> <p>Response (JSON):</p> <p>Success (201):</p> <pre>{ "success": true, "newToken": "A JWT" }</pre> <p>Failure (401):</p> <pre>{ "success": false, "error": "Some sort of error message here." }</pre>		
/users/account/email	PUT			
		<p>Update user's account information [Requires JWT header "x-auth"]</p> <p>Parameters (JSON):</p> <pre>{ "name": "Bob Smith" }</pre> <p>Response (JSON):</p> <p>Success (201):</p> <pre>{ "success": true, }</pre> <p>Failure (401):</p> <pre>{ "success": false, "error": "Some sort of error message here." }</pre>		
/users/account/name	PUT			
		<p>Update user's account information [Requires JWT header "x-auth"]</p> <p>Parameters (JSON):</p> <pre>{ "oldPassword": "password", "newPassword": "betterPassword" }</pre> <p>Response (JSON):</p> <p>Success (201):</p> <pre>{ "success": true, }</pre> <p>Failure (401):</p> <pre>{ "success": false, "error": "Some sort of error message here." }</pre>		
/users/account/password	PUT			
		<p>Authenticate User</p> <p>Parameters (JSON):</p> <pre>{ "email": "test@example.com" "password": "password" }</pre> <p>Response (JSON):</p> <p>Success (201):</p> <pre>{ "success": true, "token": "A JWT" }</pre> <p>Failure (401):</p> <pre>{ "success": false, "error": "Some sort of error message here." }</pre>		
/users/signin	POST			
Endpoints for UVFit				

/activity/add	POST	<p>add an activity</p> <p>Activity is initialized with a starting waypoint, and additional waypoints may be added through the /activity/update endpoint using the returned activity id.</p> <p>Parameters (JSON):</p> <pre>{ "deviceId": "11f4baaef3445ff", "apiKey": "ghj6b5fsr7md4b61", "numWaypoints": "10", "startTime": "2018-07-14 19:43:37 +0100", "endTime": "2018-07-14 20:19:51 +0100", "activityType": "walking", "totalUV": "96", "latitude": "32.248820", "longitude": "-110.987420", "uvExposure": "26", "speed": "0.14" }</pre> <p>Response (JSON):</p> <p>Success (201):</p> <pre>{ "success": true, "message": "Activity Successfully Added" "activityId": "4e3444818cde747f02000001" }</pre> <p>Failure (401):</p> <pre>{ "success": false, "error": "Some sort of error message here." }</pre>		<p>I'm just making this up but we need a standard: Total UV is a value calculated "100" is being in bright direct sun for 1 hour.</p> <p>UV exposure is direct from sensor reading: 16 bit value [0-65,535]</p> <p>For initial demo, only one waypoint is sent, everything else is hardcoded.</p>
/activity/update	PUT	<p>Update an activity</p> <p>Waypoint is added to the activity with the specified ID</p> <p>Parameters (JSON):</p> <pre>{ "deviceId": "11f4baaef3445ff", "apiKey": "ghj6b5fsr7md4b61", "activityId": "4e3444818cde747f02000001", "latitude": "32.248820", "longitude": "-110.987420", "uvExposure": "26", "speed": "0.14" }</pre> <p>Response (JSON):</p> <p>Success (201):</p> <pre>{ "success": true, "message": "Activity Successfully Updated" "activityId": "4e3444818cde747f02000001" }</pre> <p>Failure (401):</p> <pre>{ "success": false, "error": "Some sort of error message here." }</pre>		
/activity/all	GET	<p>get all activities associated with a particular user [Requires JWT header "x-auth"]</p> <p>Response (JSON):</p> <p>Success (201):</p> <pre>{ "success": true, "activities": [{ "activityId": "4e3444818cde747f02000001" "startTime": "2018-07-14 19:43:37 +0100", "duration": "1:05:21", "activityType": "walking", "calories": "223", "TotalUV": "96", }, ...] }</pre> <p>Failure (401):</p> <pre>{ "success": false, "message": "No/Invalid authentication token." }</pre> <p>Failure (201):</p> <pre>{ "success": false, "message": "User does not exist." }</pre>		

/activity/id/activityId	GET	<p>get all of a single activity's data [Requires JWT header "x-auth"]</p> <p>Response (JSON):</p> <p>Success (201):</p> <pre>{ "success": true, "deviceId": "11f4baaef3445ff", "startTime": "2018-07-14 19:43:37 +0100", "endTime": "2018-07-14 20:19:51 +0100", "activityType": "walking", "calories": "223", "TotalUV": "96", "waypoints": [{ "latitude": "32.248820", "longitude": "-110.987420", "uvExposure": "24", "speed": "0.14" }, { "latitude": "32.348153", "longitude": "-110.889127", "uvExposure": "21", "speed": "0.16" }], ... }</pre> <p>Failure (401):</p> <pre>{ "success": false, "message": "No/Invalid authentication token." }</pre> <p>Failure (201):</p> <pre>{ "success": false, "message": "Activity does not exist." }</pre>		
/activity/summary	GET	<p>get a summary of a user's last 7 days of activity [Requires JWT header "x-auth"]</p> <p>Response (JSON):</p> <p>Success (201):</p> <pre>{ "success": true, "totalDuration": "6:12:41", "totalCalories": "427", "totalUV": "634", }</pre> <p>Failure (401):</p> <pre>{ "success": false, }</pre>		