Backend Requirements/User Stories – Updated 9/24

**Backend Requirements**

**Admin**

An Administrator shall have the ability to edit any user’s roles.

An Administrator shall have the ability to edit the weather data.

An Administrator shall have the ability to view and edit all of the devices in the database.

**User**

A basic user shall be able to use an HTTP endpoint to query the API for **weather** data.

A basic user shall be able to use an HTTP endpoint to query the API for **device** data.

**Weather Device**

A weather device shall have a list of authorized users.

A weather device shall be able to use an HTTP endpoint to **add device log information.**

A device log shall contain a device’s id, name, a date stamp, type, and status.

A weather device shall be able to use an HTTP endpoint to **add weather data.**

A weather log shall contain the origin source (required), device, temperature (required), humidity (required), latitude (required), longitude (required), air pressure (required) and a date stamp.

**API**

The API shall return data in a structured JSON format.

The API shall allow for individual or multiple records to be returned.

The API shall check a user’s authentication status before allowing them to access certain endpoints.

The API shall use JSONWebTokens for secure authentication.

The API shall allow devices to connect and send and receive data.

**Database**

The database shall be a MongoDB NoSQL database

The database shall only be accessible via a secure login

**User Stories**

**Admin**

As an admin, I shall be able to edit user’s roles. (done)

As an admin, I shall be able to view and edit any record in the database. (done)

**Basic user**

As a basic user, I shall be able to register, verify and log into a skypi account. (done)

As a basic user, I shall be able to go to a skypi web address and receive **weather** data. (done)

As a basic user, I shall be able to go to a skypi web address and receive **device** data. (done)

As a basic user, I shall be able to go to a skypi web address and **register a weather device**. (done)

As a basic user, I shall be able to grant users permission access my weather devices data. (in progress)