**1.0.0**

**0.0.0**



IoT LED & Sensor API

API documentation for IoT LED and sensor system

Auth

Auth | Login

**POST**

<http://localhost:3000/api/login>

Request Body

Success 200

Error 4xx

Invalid username or password.

**401**

**Description**

**Name**

JWT token.

**String**

**token**

**Type Description**

**Field**

Password.

**String**

**password**

Username.

**String**

**username**

**Type Description**

**Field**

LED

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LED | Control LED



**POST**

<http://localhost:3000/api/led>

Header

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| **Authorization** | **String** | Bearer token. |

Header-Example:

{

"Authorization": "Bearer your\_token\_here"

}

Request Body

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Type** | **Description** | |
| **led1** | **String** | LED1 state.  *Allowed values: "ON" ,* | *"OFF"* |
| **led2** | **String** | LED2 state.  *Allowed values: "ON" ,* | *"OFF"* |
| **led3** | **String** | LED3 state.  *Allowed values: "ON" ,* | *"OFF"* |

Success 200

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|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| **message** | **String** | Response message. |

LED | Get LED change history



**GET**

<http://localhost:3000/api/led/history>

Header

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| **Authorization** | **String** | Bearer token. |

Header-Example:

{

"Authorization": "Bearer your\_token\_here"

}

Parameter

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** |  | **Type** | **Description** |
| **search** | **optional** | **String** | Search keyword. |
| **sortField** | **optional** | **String** | Sort field (id, timestamp, source). |
| **order** | **optional** | **String** | asc|desc. |

Success 200

**0.0.0**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| **recordset** | **Object[]** | Array of LED history data. |

LED | Get LED state



**GET**

<http://localhost:3000/api/led>

Header

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| **Authorization** | **String** | Bearer token. |

Header-Example:

{

"Authorization": "Bearer your\_token\_here"

}

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| **led1** | **String** | State ON|OFF. |
| **led2** | **String** | State ON|OFF. |
| **led3** | **String** | State ON|OFF. |

Sensor

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Sensor | Get latest sensor data



**GET**

<http://localhost:3000/api/sensors>

Header

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|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| **Authorization** | **String** | Bearer token. |

Header-Example:

{

"Authorization": "Bearer your\_token\_here"

}

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| **temperature** | **Number** | Temperature value. |
| **humidity** | **Number** | Humidity value. |
| **light** | **Number** | Light intensity. |
| **lastUpdate** | **String** | Last update timestamp. |

Sensor | Get sensor history



**GET**

<http://localhost:3000/api/sensors/history>

Header

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| **Authorization** | **String** | Bearer token. |

Header-Example:

{

"Authorization": "Bearer your\_token\_here"

}

Parameter

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** |  | **Type** | **Description** |
| **sortField** | **optional** | **String** | Sort field (id, temperature, humidity...). |
| **order** | **optional** | **String** | asc|desc. |
| **searchField** | **optional** | **String** | Field to search. |
| **searchQuery** | **optional** | **String** | Search value. |

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| **recordset** | **Object[]** | Array of sensor history data. |