

IoT LED & Sensor API

API documentation for IoT LED and sensor system

1.0.0

Auth

Auth | Login

0.0.0

POST

http://localhost:3000/api/login

Request Body

| Field | Type | Description |
|----------|--------|-------------|
| username | String | Username. |
| password | String | Password. |

Success 200

| Field | Type | Description |
|-------|--------|-------------|
| token | String | JWT token. |

Error 4xx

| Name | Description |
|------|-------------------------------|
| 401 | Invalid username or password. |

LED

LED | Control LED

0.0.0

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. <i>Allowed values: "ON", "OFF"</i> |
| led2 | String | LED2 state. <i>Allowed values: "ON", "OFF"</i> |
| led3 | String | LED3 state. <i>Allowed values: "ON", "OFF"</i> |

Success 200

| Field | Type | Description |
|---------|--------|-------------------|
| message | string | Response message. |

LED | Get LED change history

0.0.0

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 | optionalString | Search keyword. |
| sortField | optionalString | Sort field (id, timestamp, source). |
| order | optionalString | asc desc. |

Success 200

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

LED | Get LED state

0.0.0

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

Sensor | Get latest sensor data

0.0.0

GET

http://localhost:3000/api/sensors

Header

| 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

0.0.0

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 | optionalString | Sort field (id, temperature, humidity...). |
| order | optionalString | asc desc. |
| searchField | optionalString | Field to search. |
| searchQuery | optionalString | Search value. |

Success 200

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