

EcoShower API (2.4.0)

API for the EcoShower Smart Shower System using AWS Serverless (Lambda, DynamoDB, IoT Core).

List User Devices

AUTHORIZATIONS: > *CognitoAuth*

Responses

✓ 200

List of user's devices

RESPONSE SCHEMA: application/json

→ devices > Array of objects (Device)

GET /devices



Response samples

200

Content type
application/json

Copy Expand all Collapse all

```
{
  - "devices": [
    + { ... }
  ]
}
```

Add New Device

AUTHORIZATIONS: > *CognitoAuth*

REQUEST BODY SCHEMA: application/json
required

name
required string

device_code
required string = 12 characters

Responses

✓ 210

Device successfully created

RESPONSE SCHEMA: application/json

device > object (Device)

POST /devices

Request samples

Payload

Content type

application/json

Copy

```
{
  "name": "string",
  "device_code": "stringstring"
}
```

Response samples

210

Content type

application/json

Copy

Expand all

Collapse all

```
{
  - "device": {
    "device_id": "3bafab7b-4400-4bcf-8e6e-09f954699940",
    "user_id": "string",
    "name": "Master Bathroom",
    "device_code": "A1B2C3D4E5F6",
    "status": "ready",
    "target_temp": 38.5,
    "current_temp": 22
  }
}
```

Get Device Details

AUTHORIZATIONS: > *CognitoAuth*

PATH PARAMETERS

→ device_id
required string

Responses

✓ 200

Device details

RESPONSE SCHEMA: application/json

→ device > object (Device)

GET

/devices/{device_id}



Response samples

200

Content type

application/json

Copy

Expand all

Collapse all

```
{
  - "device": {
    "device_id": "3bafab7b-4400-4bcf-8e6e-09f954699940",
    "user_id": "string",
    "name": "Master Bathroom",
    "device_code": "A1B2C3D4E5F6",
    "status": "ready",
    "target_temp": 38.5,
    "current_temp": 22
  }
}
```

Update Device

AUTHORIZATIONS: >

CognitoAuth

PATH PARAMETERS

→ device_id
required string

REQUEST BODY SCHEMA: application/json

└─ name string

└─ target_temp number [30 .. 45]

Responses

— 200

Device updated

PUT /devices/{device_id}



Request samples

Payload

Content type

application/json

Copy

```
{
  "name": "string",
  "target_temp": 30
}
```

Start Shower Session

AUTHORIZATIONS: > *CognitoAuth*

PATH PARAMETERS

device_id string
required

REQUEST BODY SCHEMA: application/json

target_temp number
duration integer
Planned duration in minutes

Responses

✓ 210

Session created

RESPONSE SCHEMA: application/json

session > object (Session)

Payload

```
application/json
```

Copy

210

```
application/json
```

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duration	number
Actual duration in seconds	

Responses

✓ 200

Session stopped and stats calculated

RESPONSE SCHEMA: application/json

water_saved	number
money_saved	number
duration_seconds	number

POST /devices/{device_id}/stop

Request samples

Payload

Content type
application/json

Copy

```
{
  "duration": 0
}
```

Response samples

200

Content type
application/json

Copy

```
{
  "water_saved": 0,
```

```
"money_saved": 0,  
"duration_seconds": 0  
}
```

Send IoT Command

AUTHORIZATIONS: > *CognitoAuth*

PATH PARAMETERS

→ **device_id** string
required

REQUEST BODY SCHEMA: application/json

→ **command** string
required
Enum: "START_HEATING" "STOP_HEATING" "OPEN_VALVE"
"CLOSE_VALVE"

Responses

— 200

Command sent via MQTT

POST /devices/{device_id}/command

Request samples

Payload

Content type
application/json

Copy

```
{  
  "command": "START_HEATING"  
}
```

Get User Settings

AUTHORIZATIONS: > *CognitoAuth*

Responses

✓ 200

User profile and settings

RESPONSE SCHEMA: application/json

→ settings > object (User)

GET /settings



Response samples

200

Content type

application/json

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```
{
  - "settings": {
    "user_id": "string",
    "name": "string",
    "email": "string",
    "role": "user",
    + "notifications": { ... },
    + "system": { ... }
  }
}
```

Update User Settings

AUTHORIZATIONS: > *CognitoAuth*

REQUEST BODY SCHEMA: application/json

name	string
notifications >	object
system >	object

Responses

— 200

Settings updated

PUT /settings

Request samples

Payload

Content type
application/json

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```
{
  "name": "string",
  "notifications": {
    "water_ready_alert": true
  },
  "system": {
    "temperature_unit": "string",
    "language": "string"
  }
}
```

Get User Usage Stats

AUTHORIZATIONS: > *CognitoAuth*

Responses

✓ 200

Monthly aggregation

RESPONSE SCHEMA: application/json

total_water_saved	number
total_money_saved	number
sessions_count	integer

GET /dashboard/summary

Response samples

200

Content type
application/json

Copy

```
{
  "total_water_saved": 0,
  "total_money_saved": 0,
  "sessions_count": 0
}
```

Get System Wide Stats (Admin)

AUTHORIZATIONS: > CognitoAuth

Responses

✓ 200

Global system statistics

RESPONSE SCHEMA: application/json

total_users	integer
total_devices	integer
activity_data	Array of arrays

GET /admin/stats

Response samples

200

Content type
application/json

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```
{
  "total_users": 0,
  "total_devices": 0,
  "activity_data": [ ]
}
```

List All Users (Admin)

AUTHORIZATIONS: > CognitoAuth

Responses

✓ 200

List of all users

```
└─ users >
```

Array of objects (User)

GET

```
/admin/users
```

200

```
application/json
```

Copy Expand all Collapse all

```
{
  - "users": [
    + { ... }
  ]
}
```