

# Swagger Editor Screenshots

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```
1  openapi: 3.0.0
2  info:
3    title: Smart Thermostat IoT API
4    description: REST API for managing smart thermostats, customers, and temperature data
5    version: 1.0.0
6
7  servers:
8    - url: https://api.smarthome.local
9
10 paths:
11   /devices:
12     get:
13       summary: Get all registered devices
14       responses:
15         '200':
16           description: List of devices
17
18   /devices/{deviceId}/telemetry:
19     post:
20       summary: Send temperature data
21       parameters:
22         - name: deviceId
23           in: path
24           required: true
25           schema:
26             type: string
27       requestBody:
28         required: true
29         content:
30           application/json:
31             schema:
32               type: object
33               properties:
34                 temperature:
35                   type: number
36                 humidity:
37                   type: number
38       responses:
39         '200':
40           description: Telemetry received
```

```
41  | /devices/{deviceId}/config:
42  |   get:
43  |     summary: Get device configuration
44  |     parameters:
45  |       - name: deviceId
46  |         in: path
47  |         required: true
48  |     schema:
49  |       type: string
50  |     responses:
51  |       '200':
52  |         description: Configuration returned
53
54
55   put:
56   summary: Update device configuration
57   parameters:
58   - name: deviceId
59   in: path
60   required: true
61   schema:
62   type: string
63   requestBody:
64   required: true
65   content:
66   application/json:
67   schema:
68   type: object
69   properties:
70   targetTemperature:
71   type: number
72   mode:
73   type: string
74   responses:
75   '200':
76   description: Configuration updated
77
```

The screenshot shows a Swagger UI interface with the following configuration:

- Servers:** https://api.smarthome.local
- default:** This section contains four API endpoints:
  - GET /devices**: Get all registered devices. This endpoint is expanded, showing its summary and examples.
  - POST /devices/{deviceId}/telemetry**: Send temperature data. This endpoint is collapsed.
  - GET /devices/{deviceId}/config**: Get device configuration. This endpoint is collapsed.
  - PUT /devices/{deviceId}/config**: Update device configuration. This endpoint is collapsed.

## Code for Frontend Using Swagger

```
openapi: 3.0.0
info:
  title: Smart Thermostat IoT API
  description: REST API for managing smart thermostats, customers, and temperature data
  version: 1.0.0

servers:
  - url: https://api.smarthome.local

paths:
  /devices:
    get:
      summary: Get all registered devices
      responses:
        '200':
          description: List of devices

  /devices/{deviceId}/telemetry:
    post:
      summary: Send temperature data
      parameters:
        - name: deviceId
          in: path
```

```
    required: true
    schema:
      type: string
  requestBody:
    required: true
    content:
      application/json:
        schema:
          type: object
          properties:
            temperature:
              type: number
            humidity:
              type: number
  responses:
    '200':
      description: Telemetry received

/devices/{deviceId}/config:
  get:
    summary: Get device configuration
    parameters:
      - name: deviceId
        in: path
        required: true
        schema:
          type: string
    responses:
      '200':
        description: Configuration returned

  put:
    summary: Update device configuration
    parameters:
      - name: deviceId
        in: path
        required: true
        schema:
          type: string
  requestBody:
    required: true
    content:
      application/json:
        schema:
```

```
type: object
properties:
  targetTemperature:
    type: number
  mode:
    type: string
responses:
  '200':
    description: Configuration updated
```