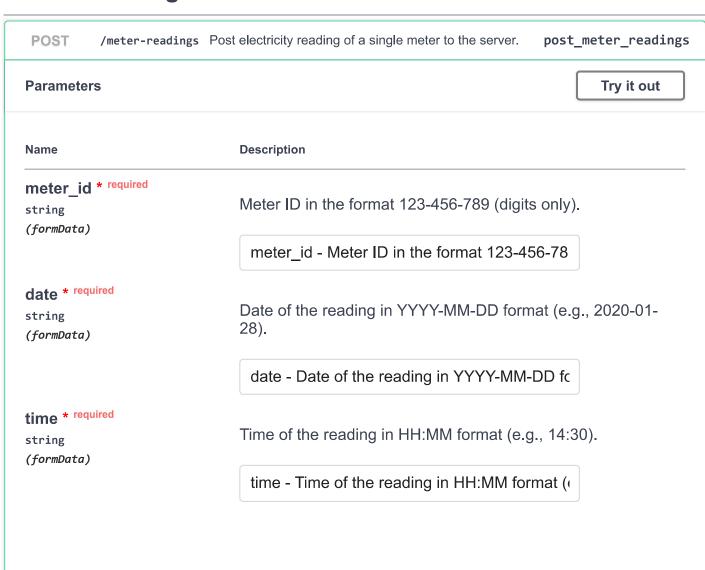{···}

| /apispec_1.json | Explore |

AN6007 ADVANCED PROGRAMMING - Electricity Meter Service API ^{0.0.1}

/apispec_1.json

powered by Flasgger

Terms of service

Meter Readings ⌄

| POST | /meter-readings | Post electricity reading of a single meter to the server. | post_meter_readings |

Parameters   Try it out

Name	Description
meter_id * required string *(formData)*	Meter ID in the format 123-456-789 (digits only). `meter_id - Meter ID in the format 123-456-78`
date * required string *(formData)*	Date of the reading in YYYY-MM-DD format (e.g., 2020-01-28). `date - Date of the reading in YYYY-MM-DD fc`
time * required string *(formData)*	Time of the reading in HH:MM format (e.g., 14:30). `time - Time of the reading in HH:MM format (`

Name	Description

electricity_reading * required
string
(formData)

The electricity reading value in kWh.

> electricity_reading - The electricity reading va

Responses   Response content type   application/json

Code	Description

202

Reading saved successfully.

400

Bad Request due to invalid input values.

403

Meter does not exist.

500

Internal Server Error.

503

Service Unavailable. The server is temporarily offline for maintenance.

GET   **/meters/daily**   Get daily usage readings for all meters.   **get_meters_daily**

Parameters   Try it out

No parameters

Responses   Response content type   application/json

Code	Description

200

Daily readings retrieved successfully.

Code	Description

Example Value   Model

```
{
  "readings": [
    {
      "area": "Jurong",
      "date": "2020-01-28",
      "region": "West",
      "usage": "150"
    }
  ]
}
```

404

No readings found or the daily usage file is not available.

Example Value   Model

```
{
  "message": "No readings found."
}
```

500

Internal server error.

Example Value   Model

```
{
  "message": "Error reading file: [error details]"
}
```

503

Service unavailable. The server is temporarily offline for maintenance.

Example Value   Model

```
{
  "message": "The server is temporarily offline for maintenance."
}
```

GET   **/meters/monthly**   Get monthly usage readings for all meters.   `get_meters_monthly`

Parameters   Try it out

No parameters

Responses   Response content type   `application/json`

Code	Description
200	Monthly readings retrieved successfully.
404	No readings found or the monthly usage file is not available.
500	Internal server error.
503	Service unavailable. The server is temporarily offline for maintenance.

GET	/meters/{meter_id}/daily/latest	Get the latest daily meter usage reading.	get_meters__meter_id__daily_latest

Parameters

Try it out

Name	Description
meter_id * required string *(path)*	Meter ID in the format 123-456-789 (digits only). meter_id - Meter ID in the format 123-456-78

Responses

Response content type: application/json

Code	Description

200	The latest daily meter usage reading.
	
	Example Value Model
	
	<pre>{
	  "area": "Jurong",
	  "date": "2020-01-28",
	  "meter_id": "123-456-789",
	  "region": "West",
	  "usage": "150"
	}</pre>

Code	Description

404

No readings found for the meter or file not found.

Example Value   Model

```
{
  "message": "No readings found for meter 123-456-789"
}
```

500

Internal Server Error.

Example Value   Model

```
{
  "message": "Error reading file: [error details]"
}
```

503

Service Unavailable. The server is temporarily offline for maintenance.

Example Value   Model

```
{
  "message": "The server is temporarily offline for maintenance."
}
```

GET	/meters/{meter_id} /monthly/latest	Get the latest monthly meter usage reading.	get_meters__meter_id__monthly_latest

Parameters   [Try it out]

Name	Description
meter_id * required string *(path)*	Meter ID in the format 123-456-789 (digits only). [meter_id - Meter ID in the format 123-456-78]

Responses   Response content type   [application/json]

Code	Description

200

The latest monthly meter usage reading.

Example Value   Model

```
{
    "area": "Jurong",
    "date": "2020-01-28",
    "meter_id": "123-456-789",
    "region": "West",
    "usage": "150"
}
```

404

No readings found for the meter or file not found.

Example Value   Model

```
{
    "message": "No readings found for meter 123-456-789"
}
```

500

Internal Server Error.

Example Value   Model

```
{
    "message": "Error reading file: [error details]"
}
```

503

Service Unavailable. The server is temporarily offline for maintenance.

Example Value   Model

```
{
    "message": "The server is temporarily offline for maintenance."
}
```

Meter Management   ⌄

POST	/register Register a new meter.	post_register

Parameters   Try it out

Name	Description

body * required
object
(body)

JSON payload for registering a meter.

Example Value   Model

```
{
  "area": "string",
  "dwelling_type": "string",
  "meter_id": "string",
  "region": "string"
}
```

Parameter content type

application/json

Responses   Response content type   application/json

Code	Description
201	Meter registered successfully!
400	Bad Request. Some fields are missing or invalid. Several messages are possible in this case.
409	Conflict. This meter is already registered.

Server Maintenance   ⌄

POST	/stop_ser ver	Stop the server for maintenance, clear memory and archive daily, monthly, and batch jobs.	post_stop_se rver

Parameters   Try it out

No parameters

Responses   Response content type   application/json

Code	Description
200	Server maintenance and archival tasks were completed successfully.

Example Value   Model

```
{
    "message": "Server is shutting down. We are working on batch jobs. Good Night!"
}
```

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