
sphinxcontrib-openapi

Release

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Hint: Check out [sphinxcontrib-redoc](#) if you are interested in separate three-panel OpenAPI spec rendering.

sphinxcontrib-openapi is a [Sphinx](#) extension to generate APIs docs from [OpenAPI](#) (fka Swagger) spec. It depends on [sphinxcontrib-httpdomain](#) that provides an HTTP domain for describing RESTful HTTP APIs, so we don't need to reinvent the wheel.

```
pip install sphinxcontrib-openapi
```


CHAPTER 1

How To Use?

Consider you have the following OpenAPI spec saved at `specs/openapi.yml`:

```
swagger: "2.0"
info:
  title: Batcomputer API
  version: "1.0.0"
host: api.batcomputer.com
paths:
  /persons:
    get:
      summary: List Persons
      description: |
        Retrieves a list of all persons on file in the bat computer.
      responses:
        200:
          description: An array of Persons
          schema:
            type: array
            items:
              $ref: '#/definitions/Person'
  /evidence:
    get:
      summary: List Evidence
      description: |
        Retrieves a list of evidence ever found by world's greatest
        detective and his family.
      parameters:
        - name: marker
          in: query
          type: integer
          minimum: -1
          default: -1
          format: int64
          required: false
          description: |
```

```
    The id of the last seen evidence. It's used for pagination purpose
    by returning 'limit' number of evidence after this one.
  - name: limit
    in: query
    type: integer
    format: int32
    minimum: 1
    maximum: 1000
    default: 20
    required: false
    description: |
      The maximum number of evidence to be returned by the query.
responses:
  200:
    description: An array of evidence.
    schema:
      type: array
      items:
        $ref: '#/definitions/Evidence'
post:
  summary: Create an Evidence
  description: |
    Creates a new evidence record in database.
  parameters:
    - name: evidence
      in: body
      schema:
        $ref: '#/definitions/Evidence'
  responses:
    201:
      description: An evidence.
      schema:
        $ref: '#/definitions/Evidence'
/evidence/{id}:
get:
  summary: Show Requested Evidence
  description: |
    Queries and returns an evidence with a passed ID.
  parameters:
    - name: id
      in: path
      type: integer
      format: int64
      required: true
      description: |
        A unique evidence identifier to query.
    - name: If-None-Match
      in: header
      type: string
      description: |
        Executes a request only if passed ETag doesn't equal to current
        resource one (i.e. resource has been changed).
  responses:
    200:
      description: An evidence.
      schema:
        $ref: '#/definitions/Evidence'
  headers:
```

```

    ETag:
      description: |
        Entity tag is part of HTTP provided for web cache validation
        problem, but also used for optimistic concurrency control.
      type: string
  404:
    description: Evidence not found.
    schema:
      $ref: '#/definitions/Error'
definitions:
  Evidence:
    type: object
    properties:
      id:
        type: integer
        format: int64
        description: A unique evidence identifier.
      case:
        type: string
        description: A case when the evidence is found.
      data:
        type: string
        format: binary
        description: An evidence itself.
  Error:
    type: object
    properties:
      code:
        type: string
        description: A unique identifier of error.
      message:
        type: string
        description: A human readable error message.
  Person:
    type: object
    properties:
      id:
        type: integer
        format: int64
        description: Unique ID for a person
      name:
        type: string
        description: Name of a person

```

You can render it by using the `openapi` directive:

```
.. openapi:: specs/openapi.yml
```

and it will be rendered into something like:

GET /persons **List Persons**

Retrieves a list of all persons on file in the bat computer.

Status Codes

- **200 OK** – An array of Persons

GET /evidence
List Evidence

Retrieves a list of evidence ever found by world's greatest detective and his family.

Query Parameters

- **marker** (*integer*) – The id of the last seen evidence. It's used for pagination purpose by returning 'limit' number of evidence after this one.
- **limit** (*integer*) – The maximum number of evidence to be returned by the query.

Status Codes

- **200 OK** – An array of evidence.

POST /evidence
Create an Evidence

Creates a new evidence record in database.

Status Codes

- **201 Created** – An evidence.

GET /evidence/{id}
Show Requested Evidence

Queries and returns an evidence with a passed ID.

Parameters

- **id** (*integer*) – A unique evidence identifier to query.

Status Codes

- **200 OK** – An evidence.
- **404 Not Found** – Evidence not found.

Request Headers

- **If-None-Match** – Executes a request only if passed ETag doesn't equal to current resource one (i.e. resource has been changed).

Response Headers

- **ETag** – Entity tag is part of HTTP provided for web cache validation problem, but also used for optimistic concurrency control.

The `openapi` directive supports the following options:

encoding Encoding to be used to read an OpenAPI spec. If not passed, Sphinx's source encoding will be used.

paths A comma separated list of paths to filter the included openapi spec by. For example:

```
.. openapi:: specs/openapi.yml
   :paths:
       /persons
       /evidence
   :encoding: utf-8
```

Would only render the endpoints at `/persons` and `/evidence`, ignoring all others.

HTTP Routing Table

/evidence

GET /evidence,5

GET /evidence/{id},6

POST /evidence,6

/persons

GET /persons,5