

HTTP Service Example

Last Modified on 01/07/2020 12:51 am EST

Below is a sample HTTP service with GET method.

```
# Open API 3.0 reference - Link: https://swagger.io/docs/specification/about/
openapi: '3.0.0'
info:
  # Document title
  title: 'Sample HTTP Service Definition Name'

  # Document description
  description: 'Sample HTTP Service Definition Description'

  # Document version
  version: '1.0.0'

paths:
  # Sample HTTP GET operation with path parameter {id}
  /sampleGet/{param1}:
    get:
      parameters:
        - name: param1
          in: path
          description: 'Description for parameters 1'
          required: true
          schema:
            type: integer
      responses:
        '200':
          description: '[Operation successful response description]'
          content:
            application/json:
              schema:
                $ref: '#/components/schemas/SampleSchema2'
      x-returned-errors:
        - Error1
      x-operation-handler:
        name: ExecuteWorkflow
        workflowSpaceId: '905e725a-305a-4cc5-98ce-83ab51667f33'
x-error-catalog:
  # Sample error 1
  - id: Error1
    code: ErrCode1
    title: 'Error 1 title'
    status: 400
    message: 'Error 1 message: {arg1}, {arg2}.'
    messageParameters:
      - name: arg1
      - name: arg2
  # Sample error 2
  - id: Error2
    code: ErrCode2
    title: 'Error 2 title'
    status: 410
    message: 'Error 2 message.'
components:
  schemas:

    # Sample schema 1:
    SampleSchema1:
      title: 'Sample Schema 1'
      type: object
```

```

type: object
properties:
  property1:
    type: integer
  property2:
    type: string
# Sample schema 2
SampleSchema2:
  type: object
  properties:
    property1:
      type: string
    property2:
      type: integer
    property3:
      $ref: '#/components/schemas/SampleSchema1'
required:
  - property1
  - property3

```

The right panel on Swagger displays the following UI format for the above YAML code sample:

Sample HTTP Service Definition Name

1.0.0 OAS3

Sample HTTP Service Definition Description

default ▼

GET /sampleGet/{param1}

Parameters Try it out

Name	Description
param1 * required integer (path)	Description for parameters 1

param1 - Description for parameters 1

Responses

Code	Description	Links
200	[Operation successful response description]	No links

Media type: application/json ▼

Controls Accept: header.

Example Value | Schema

```
"property1": "string",
"property2": 0,
"property3": {
  "property1": 0,
  "property2": "string"
}
}
```

Extensions

Field Value

x-returned-errors ["Error1"]

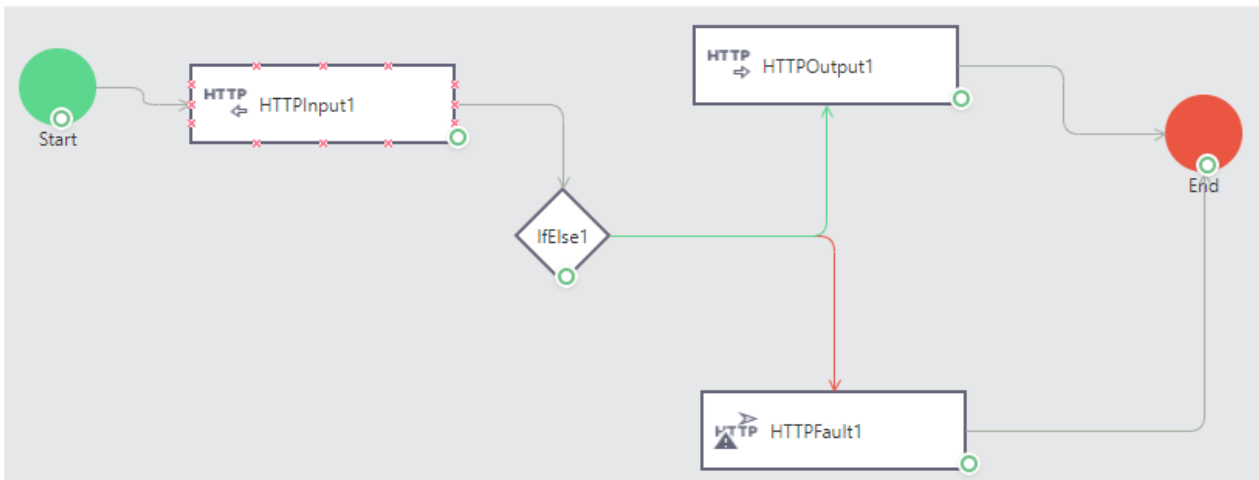
x-operation-handler {"name":"ExecuteWorkflow","workflowSpaceId":"905e725a-305a-4cc5-98ce-83ab51667f33"}

Schemas

Sample Schema 1 >

SampleSchema2 >

After creating an HTTP listener, add the HTTP Input, Output and Fault activities to your workflow, from which The HTTP service is to be initiated, and bind these activities to the above YAML HTTP listener.



After all the bindings, hit the GET API with parameter as 21. The API goes to HTTP output activity and shows the following result:

GET http://10.10.20.59:82/qq/v2/sampleGet/21

Params Authorization Headers (8) **Body** Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL BETA

This request does not have a body

Body Cookies Headers (10) Test Results

Pretty Raw Preview Visualize BETA JSON

```

1 {
2   "property1": "order1",
3   "property2": 32,
4   "property3": {
5     "property1": 321,
6     "property2": "order2"
7   }
8 }

```

For any parameter other than 21, the API goes to the HTTP fault activity and shows the following result:

GET http://10.10.20.59:82/qq/v2/sampleGet/22 Send

Params Authorization Headers (9) **Body** Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL BETA

This request does not have a body

Body Cookies Headers (11) Test Results Status: 410 Gone Time: 435ms Size: 3.31 KB Save

Pretty Raw Preview Visualize BETA JSON

```

1 {
2   "status": 410,
3   "Code": "ErrCode2",
4   "title": "Error 2 title",
5   "debugInfo": {
6     "message": "Error 2 message.",
7     "source": "PNMsoft.Sequence.Net.Http.Listeners",
8     "stackTrace": " at PNMsoft.Sequence.Net.Http.Listeners.HttpListenerController.Invoke(MethodInfo method, IListenerActivityHead
  Object[] input)\r\n at PNMsoft.Sequence.Net.Http.Listeners.HttpListenerController.Invoke(MethodInfo methodInfo,
  HttpListenerActivityMetadataHeader header, IDictionary`2 xData, Object[] input)\r\n at
  PNMsoft.Sequence.Net.Http.Listeners.HttpListenerController.Invoke(MethodInfo method, IDictionary`2 xData, IDictionary`2 inp
  at PNMsoft.Sequence.WebApi.ccController.SampleGet(Int32 param1)\r\n at lambda_method(Closure , Object , Object[] )\r\n
  System.Web.Http.Controllers.ReflectedHttpActionDescriptor.ActionExecutor.<>.<__DisplayClass6_2.<GetExecutor>b__2(Object inst
  Object[] methodParameters)\r\n at System.Web.Http.Controllers.ReflectedHttpActionDescriptor.ExecuteAsync(HttpControllerCo
  controllerContext, IDictionary`2 arguments, CancellationToken cancellationToken)\r\n--- End of stack trace from previous lo

```