MIRACLE
SOFTWARE SYSTEMS

ACB Sample Project

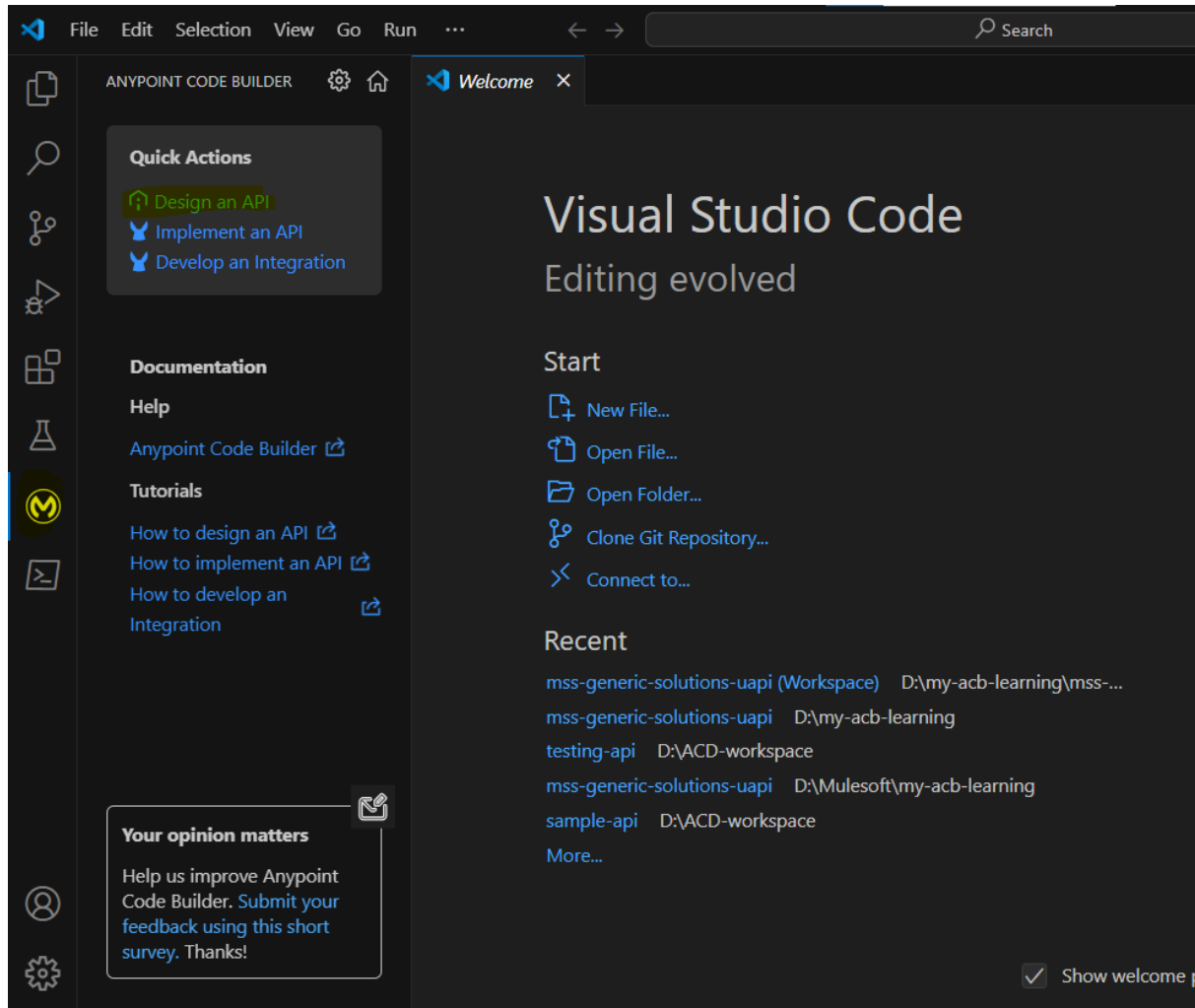The sub-title comes here

Yamini Sangam

MuleSoft Developer
Miracle Software Systems, Inc.

Date: 29/02/2024

ACB Sample Project Steps

Design an API ✕

Design an API

Define how the API will behave and how it communicates with other systems and APIs.

API Specification | API Fragment

Project Name

mss-generic-solutions-uapi
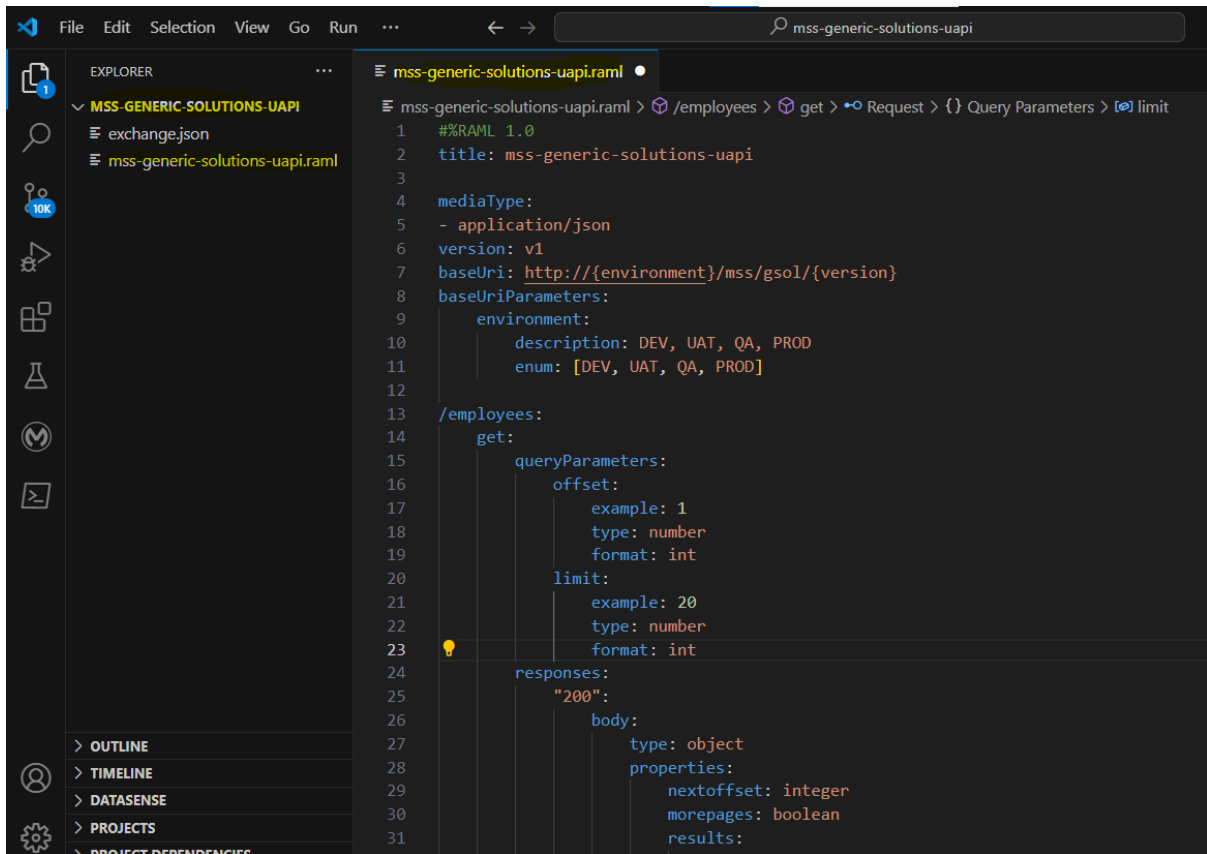
Project Location

d:\my-acb-learning | Browse

API Specification Language

RAML 1.0

Cancel | Create Project

Activate

EXPLORER   ···   ≡ mss-generic-solutions-uapi.raml ●

∨ MSS-GENERIC-SOLUTIONS-UAPI   ≡ mss-generic-solutions-uapi.raml > 🔆 /employees > 🔆 get > •⊙ Request > {} Query Parameters > [⊙] limit
  ≡ exchange.json
  ≡ mss-generic-solutions-uapi.raml

```raml
 1   #%RAML 1.0
 2   title: mss-generic-solutions-uapi
 3
 4   mediaType:
 5   - application/json
 6   version: v1
 7   baseUri: http://{environment}/mss/gsol/{version}
 8   baseUriParameters:
 9       environment:
10           description: DEV, UAT, QA, PROD
11           enum: [DEV, UAT, QA, PROD]
12
13   /employees:
14       get:
15           queryParameters:
16               offset:
17                   example: 1
18                   type: number
19                   format: int
20               limit:
21                   example: 20
22                   type: number
23                   format: int
24           responses:
25               "200":
26                   body:
27                       type: object
28                       properties:
29                           nextoffset: integer
30                           morepages: boolean
31                           results:
```

> OUTLINE
> TIMELINE
> DATASENSE
> PROJECTS
> PROJECT DEPENDENCIES

```raml
31                           results:
32                               type: array
33                               items:
34                                   properties:
35                                       employeeId: number
36                                       lastName: string
37                                       firstName: string
38                                       address: string
39                                       city: string
40                           example:
41                               {
42                                   "nextoffset": 10,
43                                   "morepages": true,
44                                   "results":
45                                       [
46                                           {
47                                               "employeeId": 1,
48                                               "lastName": "Wright",
49                                               "firstName": "Olivia",
50                                               "address": "909 Oak St",
51                                               "city": "Sacramento"
52                                           },
```

MIRACLE SOFTWARE SYSTEMS

```json
            "nextoffset": 10,
            "morepages": true,
            "results":
                [
                    {
                        "employeeId": 1,
                        "lastName": "Wright",
                        "firstName": "Olivia",
                        "address": "909 Oak St",
                        "city": "Sacramento"
                    },
                    {
                        "employeeId": 2,
                        "lastName": "Nguyen",
                        "firstName": "Daniel",
                        "address": "111 Maple St",
                        "city": "Kansas City"
                    }
                ]
        }
```

mss-generic-solutions-uapi

mss-generic-solutions-uapi.raml ●

mss-generic-solutions-uapi.raml > baseUri

API Console

```raml
1    #%RAML 1.0
2    title: mss-generic-solutions-uapi
3
4    mediaType:
5    - application/json
6    version: v1
7    baseUri: http://{environment}/mss/gsol/{version}
8    baseUriParameters:
9        environment:
10           description: DEV, UAT, QA, PROD
11           enum: [DEV, UAT, QA, PROD]
12
13   /employees:
14       get:
15           queryParameters:
16               offset:
17                   example: 1
18                   type: number
19                   format: int
20               limit:
21                   example: 20
22                   type: number
23                   format: int
24           responses:
25               "200":
```

MIRACLE
SOFTWARE SYSTEMS

≡ Documentation

Select server

Mocking Service

Request URL

http://localhost:59363/m/employees?offset=1&limit=20

Query parameters

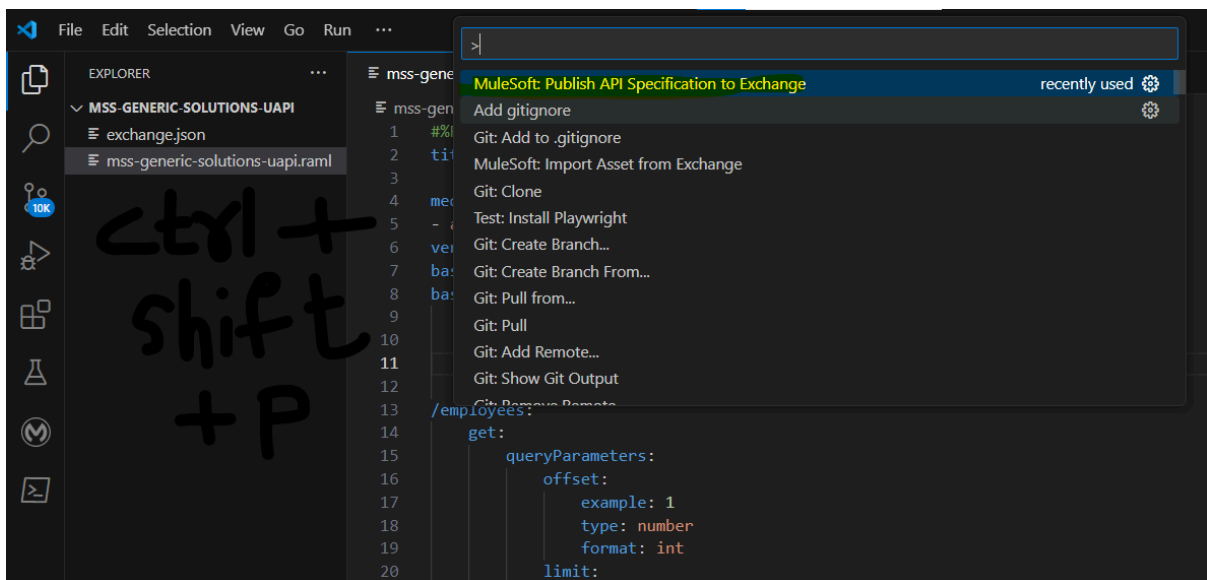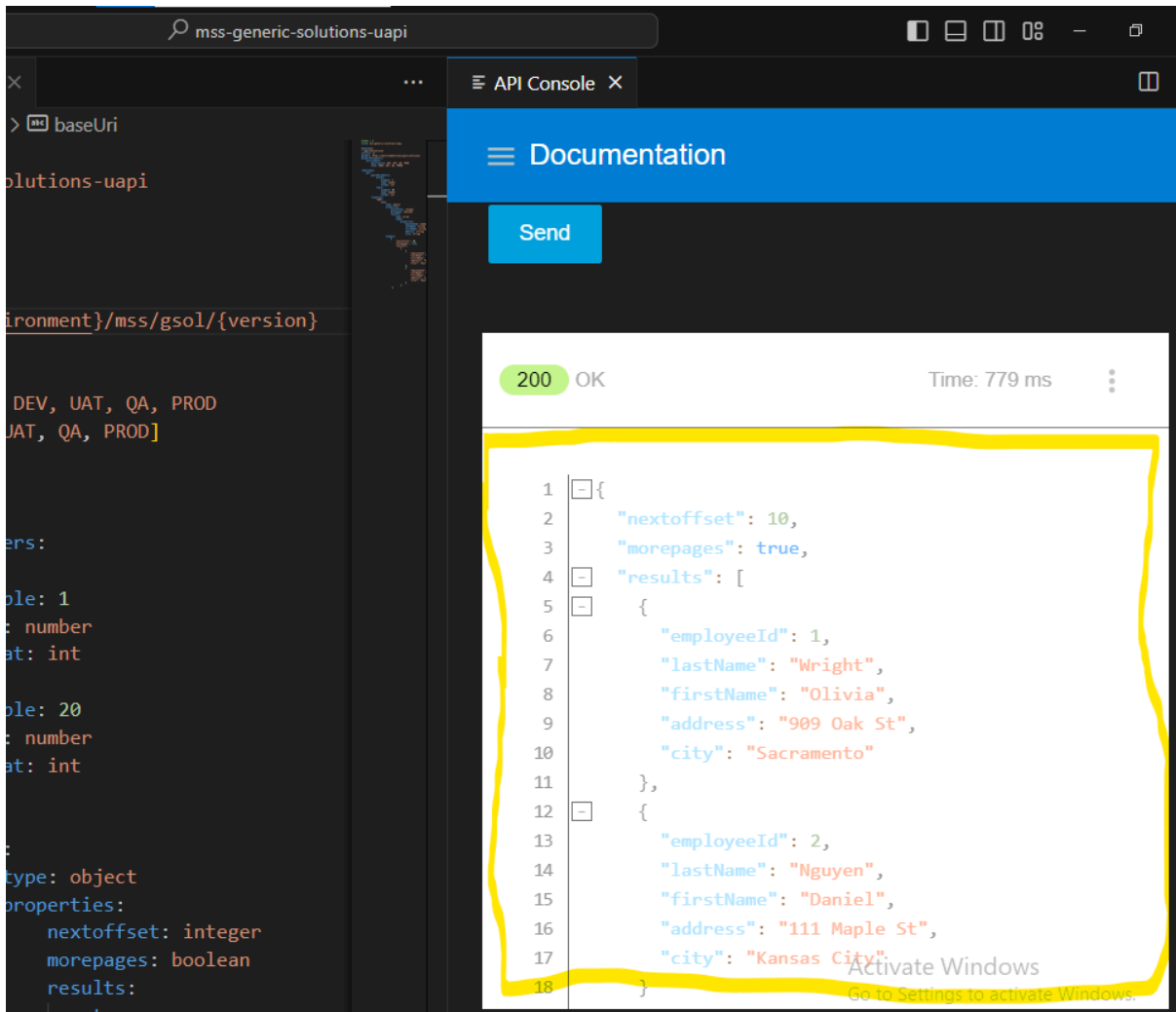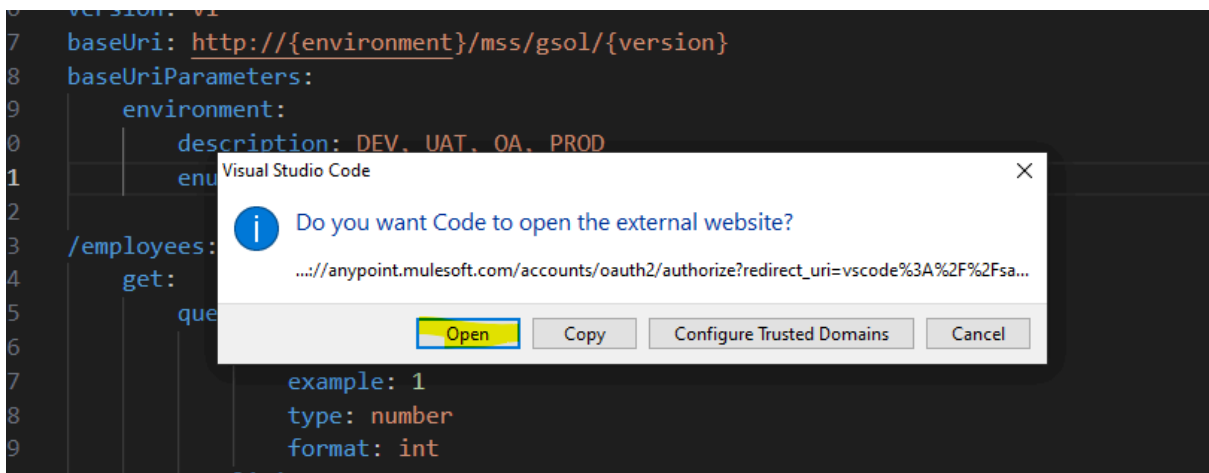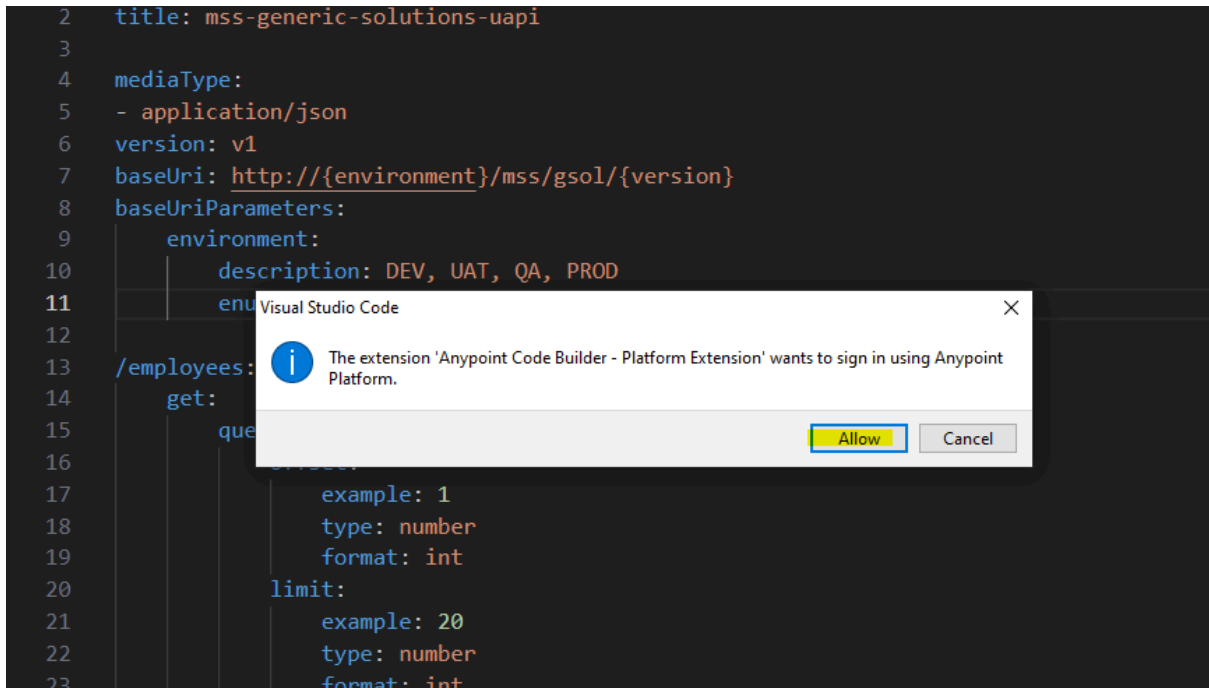Show optional parameters

* Required field

offset*

1

limit*

20

Send

API Console ✕

☰ Documentation

Send

200 OK   Time: 779 ms

```json
1  {
2     "nextoffset": 10,
3     "morepages": true,
4     "results": [
5        {
6           "employeeId": 1,
7           "lastName": "Wright",
8           "firstName": "Olivia",
9           "address": "909 Oak St",
10          "city": "Sacramento"
11       },
12       {
13          "employeeId": 2,
14          "lastName": "Nguyen",
15          "firstName": "Daniel",
16          "address": "111 Maple St",
17          "city": "Kansas City",
18       }
```

> baseUri

...olutions-uapi

...ironment}/mss/gsol/{version}

...DEV, UAT, QA, PROD
...UAT, QA, PROD]

...ers:

...le: 1
... number
...t: int

...le: 20
... number
...t: int

...ype: object
...roperties:
    nextoffset: integer
    morepages: boolean
    results:

File   Edit   Selection   View   Go   Run   ⋯

> |

EXPLORER   ⋯   ☰ mss-gene

∨ MSS-GENERIC-SOLUTIONS-UAPI
  ☰ exchange.json
  ☰ mss-generic-solutions-uapi.raml

| MuleSoft: Publish API Specification to Exchange | recently used ⚙ |
| Add gitignore | ⚙ |
| Git: Add to .gitignore |
| MuleSoft: Import Asset from Exchange |
| Git: Clone |
| Test: Install Playwright |
| Git: Create Branch... |
| Git: Create Branch From... |
| Git: Pull from... |
| Git: Pull |
| Git: Add Remote... |
| Git: Show Git Output |

```
1   #%
2   tit
3
4   me
5   -  
6   ver
7   ba:
8   ba:
9
10
11
12
13  /employees:
14    get:
15      queryParameters:
16        offset:
17          example: 1
18          type: number
19          format: int
20      limit:
```

ctrl +
shift
+ P

anypoint.mulesoft.com/login/signin?

MuleSoft from Salesforce

Sign in

Username
yamini1

Password
••••••••••   Show

Sign in

Forgot your credentials?   Use custom domain

Don't have an account? **Sign up**

**Automate everything.
Empower everyone.
Deliver success now.**

Increase productivity, lower costs, and reduce time to market with MuleSoft.

Select a Business Group

miracle software systems

```
#%RAML 1.0
title: mss-generic-solutions-uapi

mediaType:
- application/json
version: v1
baseUri: http://{environment}/mss/gsol/{version}
baseUriParameters:
    environment:
        description: DEV, UAT, QA, PROD
        enum: [DEV, UAT, QA, PROD]
```
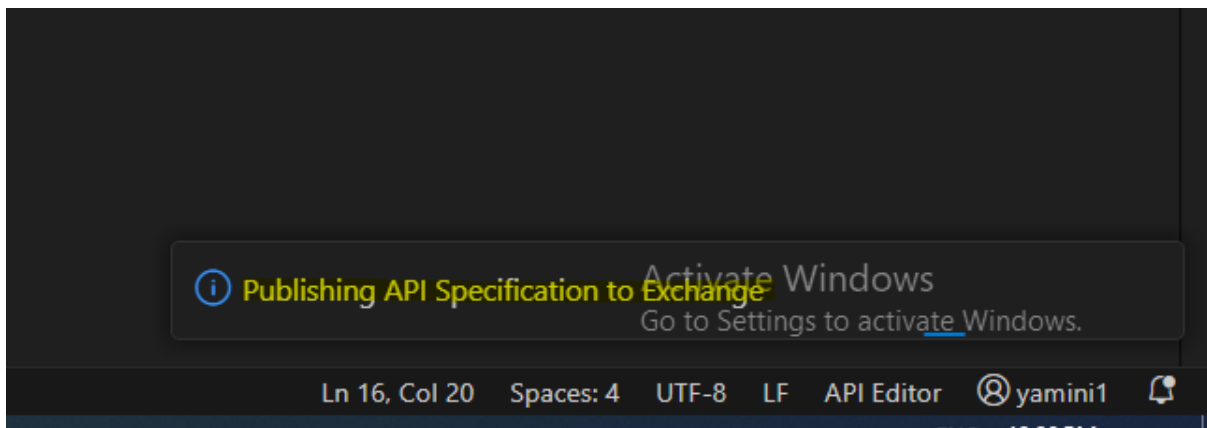

mss-generic-solutions-uapi

Set Project Name (Press 'Enter' to confirm or 'Escape' to cancel)

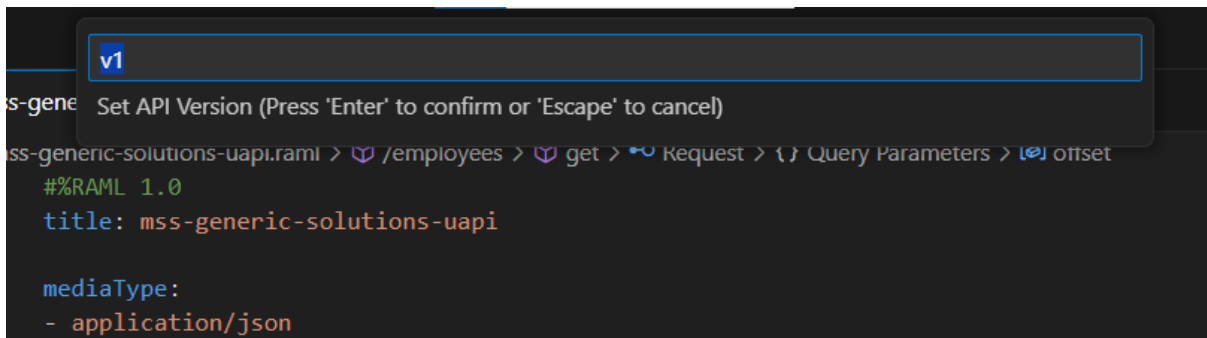mss-generic-solutions-uapi.raml > ⩔ /employees > ⩔ get > ↺ Request > {} Query Parameters > [∅] offset

```
1    #%RAML 1.0
2    title: mss-generic-solutions-uapi
```


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Run ···

≣ mss-gene

mss-generic-solutions-uapi
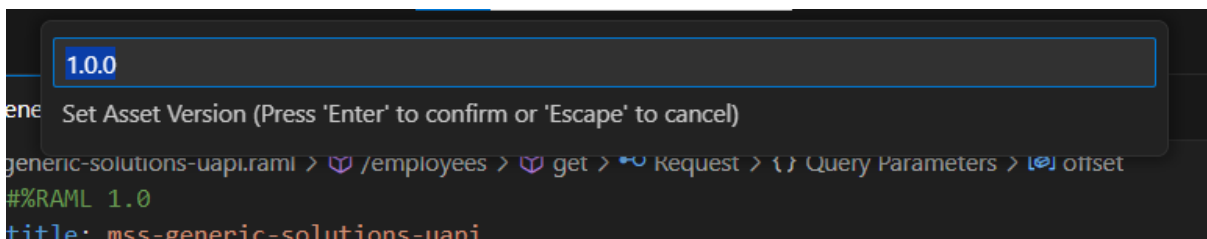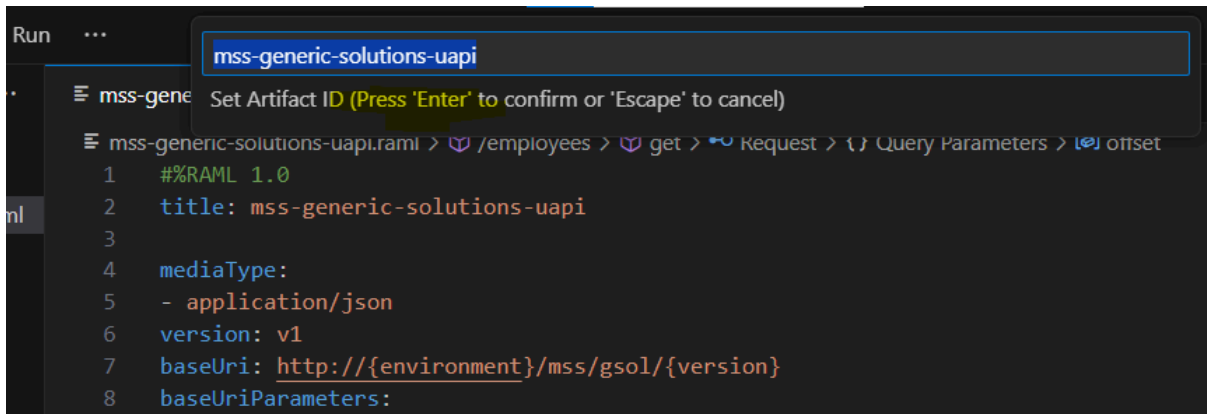
Set Artifact ID (Press 'Enter' to confirm or 'Escape' to cancel)

≣ mss-generic-solutions-uapi.raml > ⓥ /employees > ⓥ get > ↩ Request > {} Query Parameters > [@] offset

```
1    #%RAML 1.0
2    title: mss-generic-solutions-uapi
3
4    mediaType:
5    - application/json
6    version: v1
7    baseUri: http://{environment}/mss/gsol/{version}
8    baseUriParameters:
```

1.0.0

Set Asset Version (Press 'Enter' to confirm or 'Escape' to cancel)

generic-solutions-uapi.raml > ⓥ /employees > ⓥ get > ↩ Request > {} Query Parameters > [@] offset

```
#%RAML 1.0
title: mss-generic-solutions-uapi
```

v1

Set API Version (Press 'Enter' to confirm or 'Escape' to cancel)

ss-generic-solutions-uapi.raml > ⓥ /employees > ⓥ get > ↩ Request > {} Query Parameters > [@] offset

```
#%RAML 1.0
title: mss-generic-solutions-uapi

mediaType:
- application/json
```

ⓘ Publishing API Specification to Exchange

Activate Windows
Go to Settings to activate Windows.

Ln 16, Col 20   Spaces: 4   UTF-8   LF   API Editor   ⓐ yamini1   🔔

Would you like to implement mss-generic-solutions-uapi?

Choose Yes or No

Yes

No

Run ...

mss-generic-solutios-uapi-main

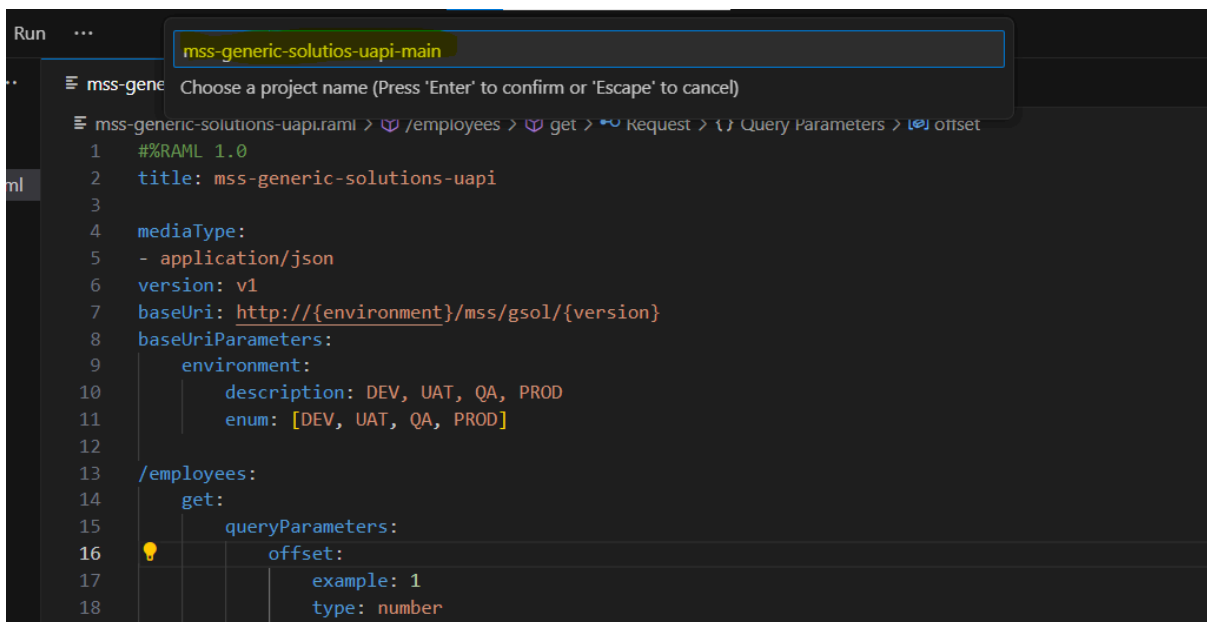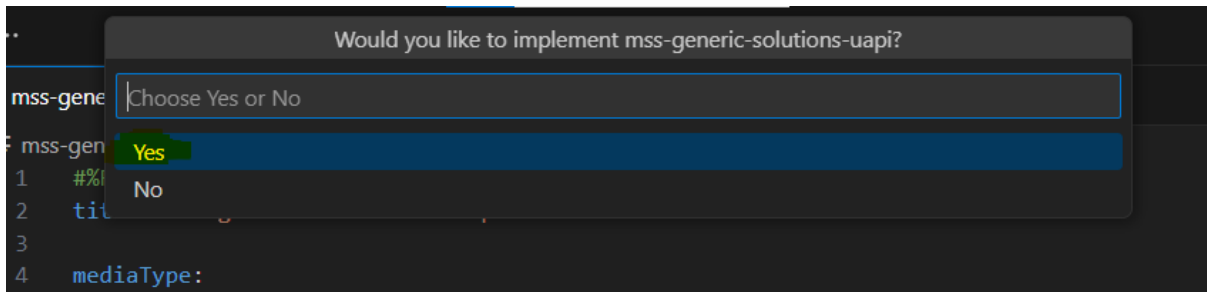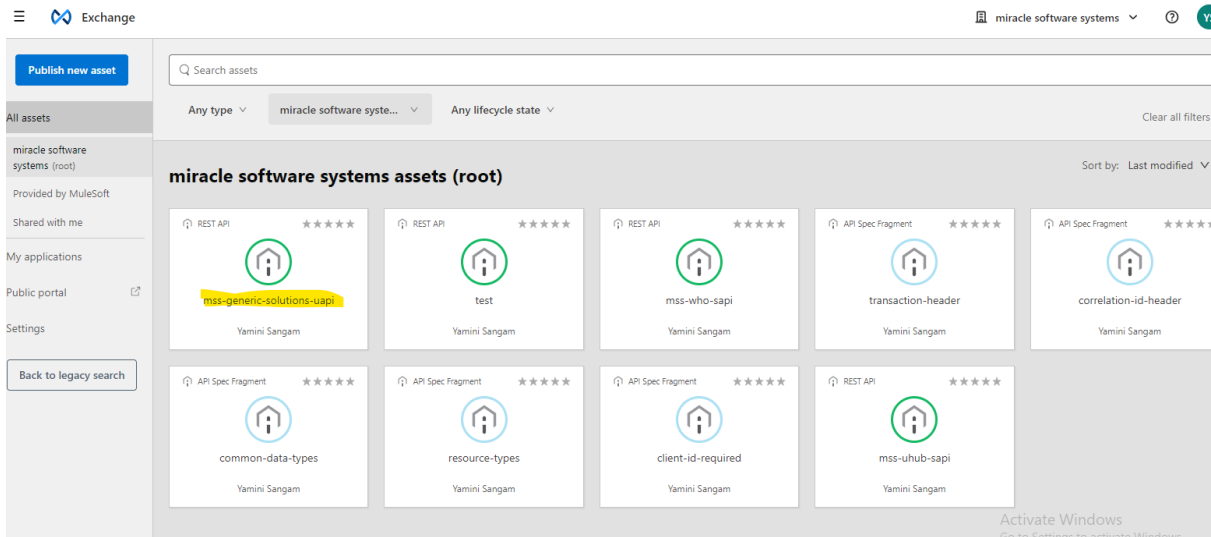Choose a project name (Press 'Enter' to confirm or 'Escape' to cancel)
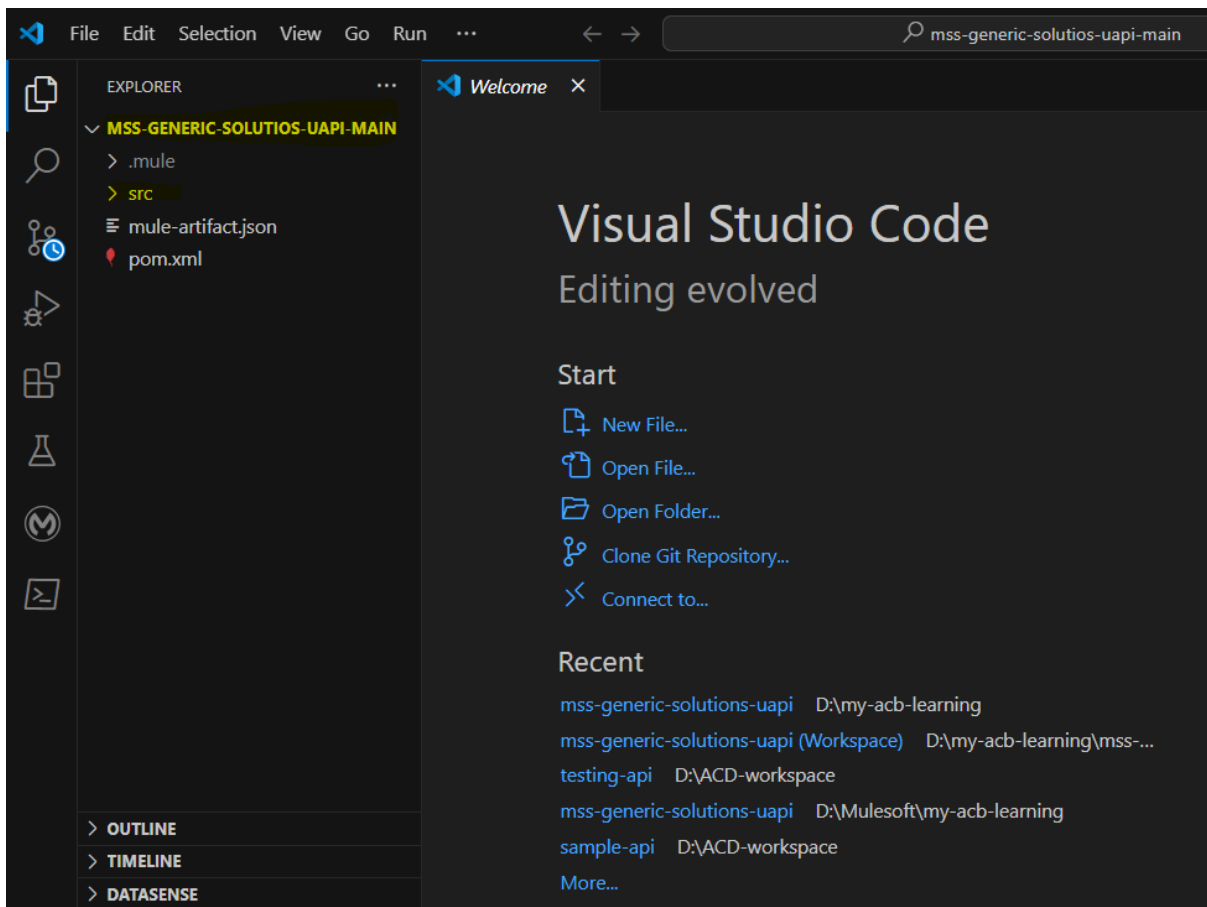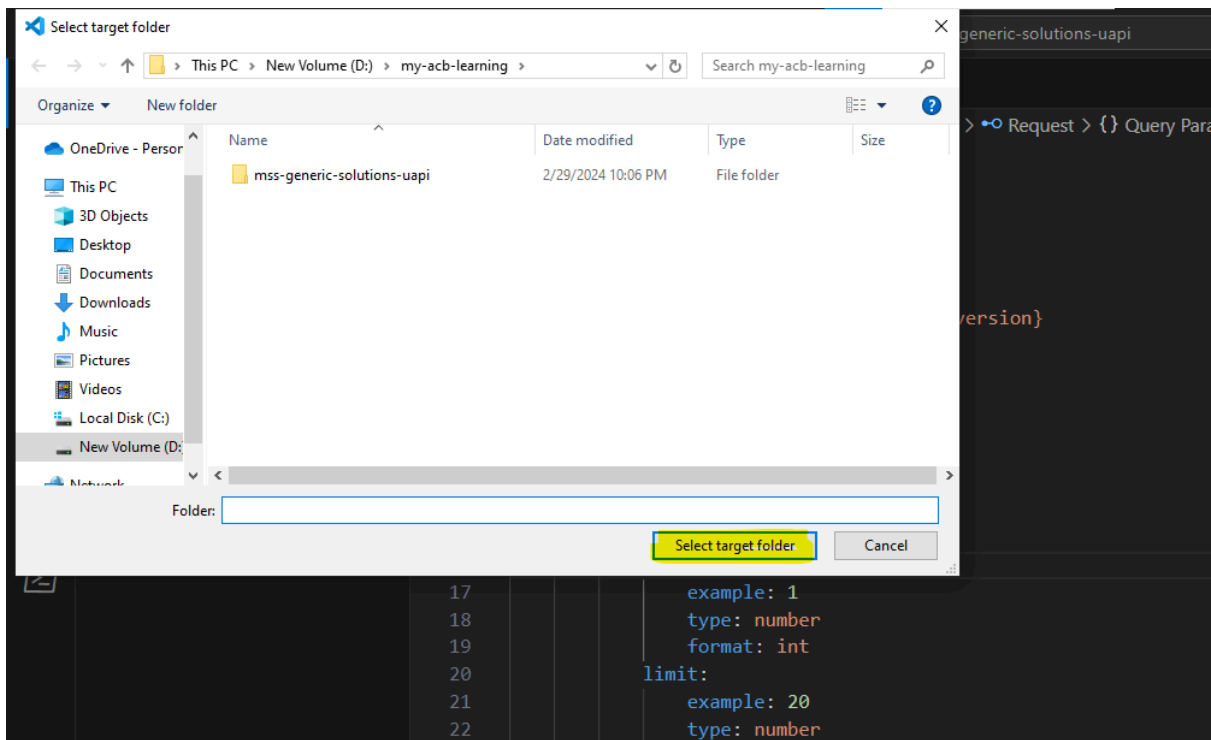
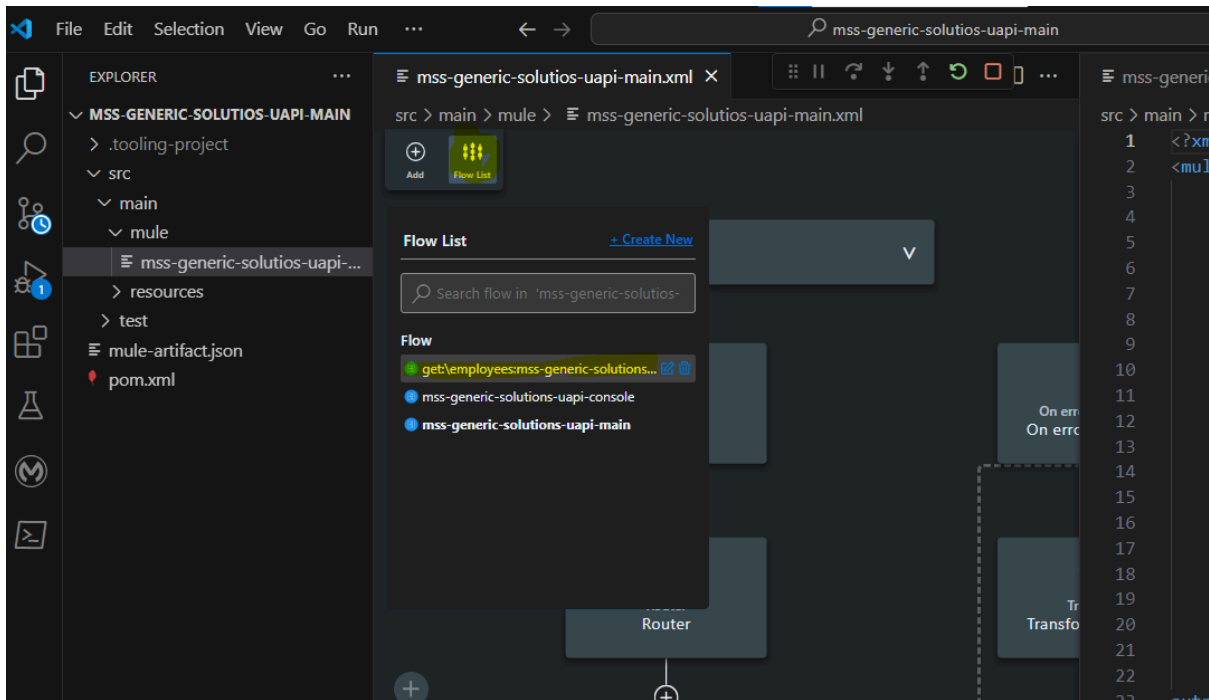mss-generic-solutions-uapi.raml > ⦿ /employees > ⦿ get > ⦿ Request > {} Query Parameters > [•] offset

```
1    #%RAML 1.0
2    title: mss-generic-solutions-uapi
3
4    mediaType:
5    - application/json
6    version: v1
7    baseUri: http://{environment}/mss/gsol/{version}
8    baseUriParameters:
9        environment:
10           description: DEV, UAT, QA, PROD
11           enum: [DEV, UAT, QA, PROD]
12
13   /employees:
14       get:
15           queryParameters:
16               offset:
17                   example: 1
18                   type: number
```

MIRACLE
SOFTWARE SYSTEMS

Select target folder

This PC > New Volume (D:) > my-acb-learning >

Search my-acb-learning

Organize ▾   New folder

Name	Date modified	Type	Size
mss-generic-solutions-uapi	2/29/2024 10:06 PM	File folder

OneDrive - Person
This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
Local Disk (C:)
New Volume (D:
Network

Folder:

Select target folder   Cancel

> Request > { } Query Para

```
17          example: 1
18          type: number
19          format: int
20    limit:
21          example: 20
22          type: number
```

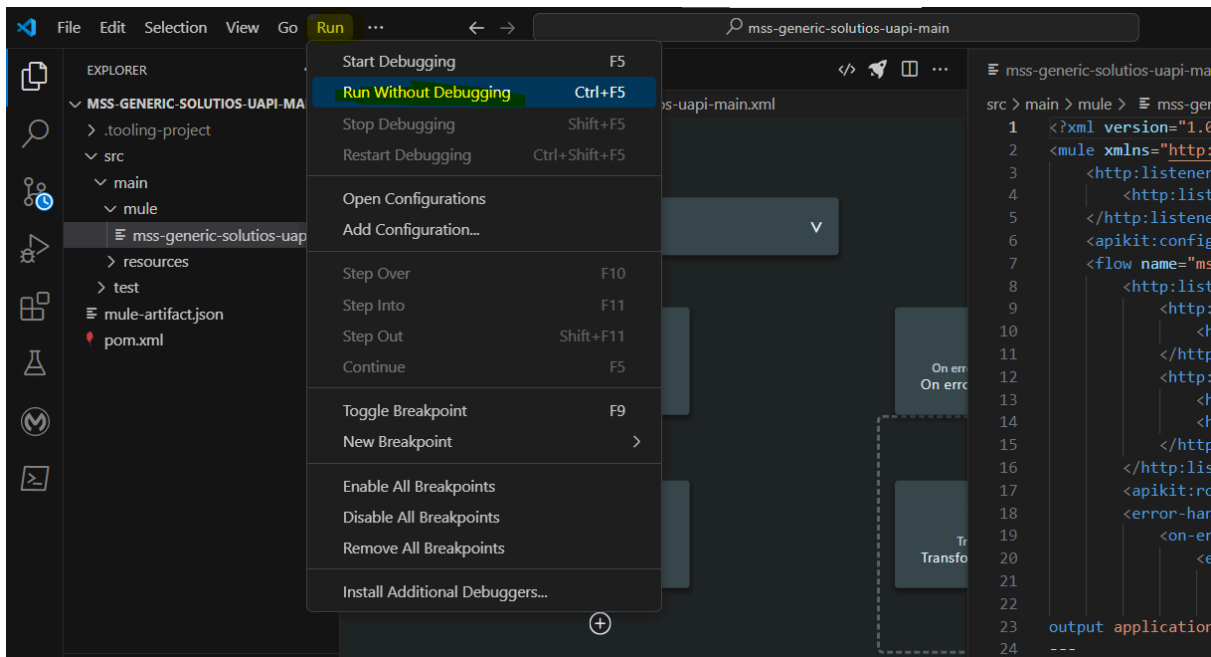File   Edit   Selection   View   Go   Run   ⋯   ← →   🔍 mss-generic-solutios-uapi-main

EXPLORER   ⋯   Welcome   ✕

∨ MSS-GENERIC-SOLUTIOS-UAPI-MAIN
 > .mule
 > src
 ≡ mule-artifact.json
 🔴 pom.xml

Visual Studio Code
Editing evolved

Start

📄 New File...

📂 Open File...

📁 Open Folder...

ஃ Clone Git Repository...

✕ Connect to...

Recent

mss-generic-solutions-uapi   D:\my-acb-learning

mss-generic-solutions-uapi (Workspace)   D:\my-acb-learning\mss-...

testing-api   D:\ACD-workspace

mss-generic-solutions-uapi   D:\Mulesoft\my-acb-learning

sample-api   D:\ACD-workspace

More...

> OUTLINE
> TIMELINE
> DATASENSE

MIRACLE
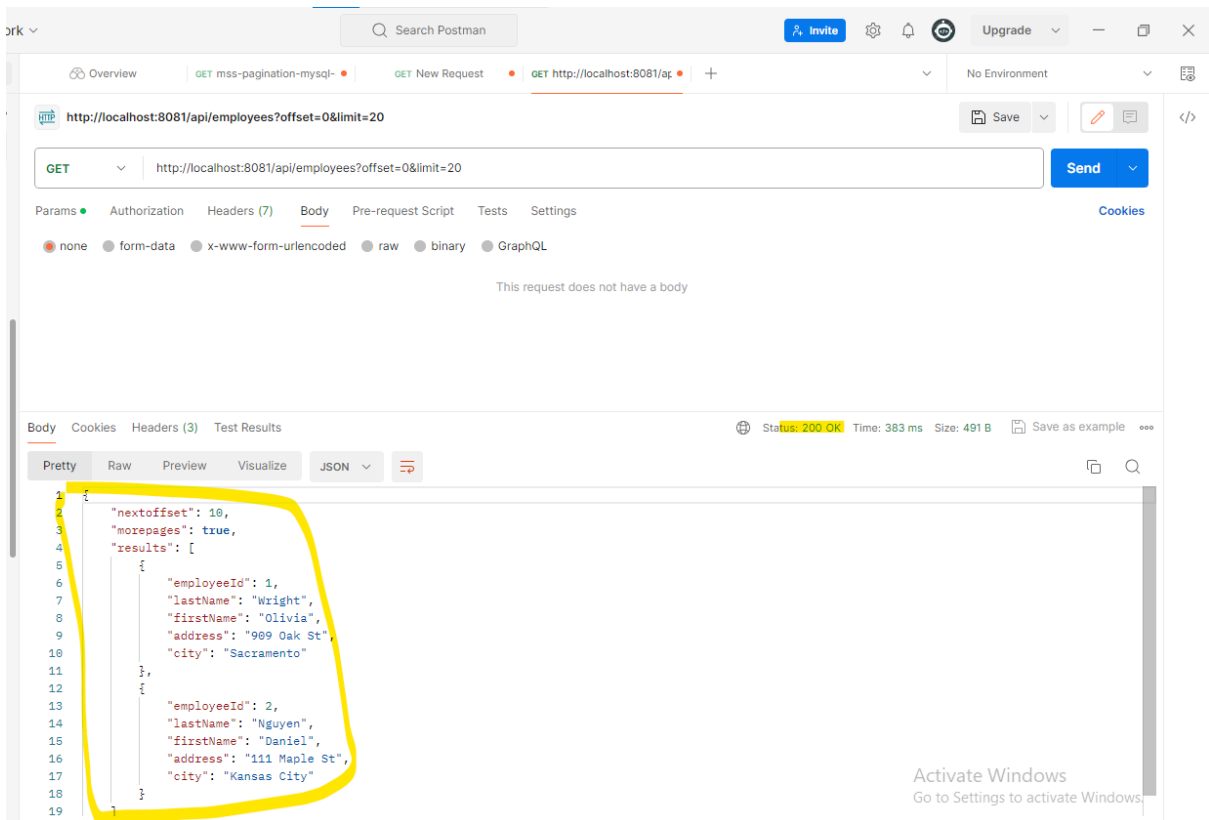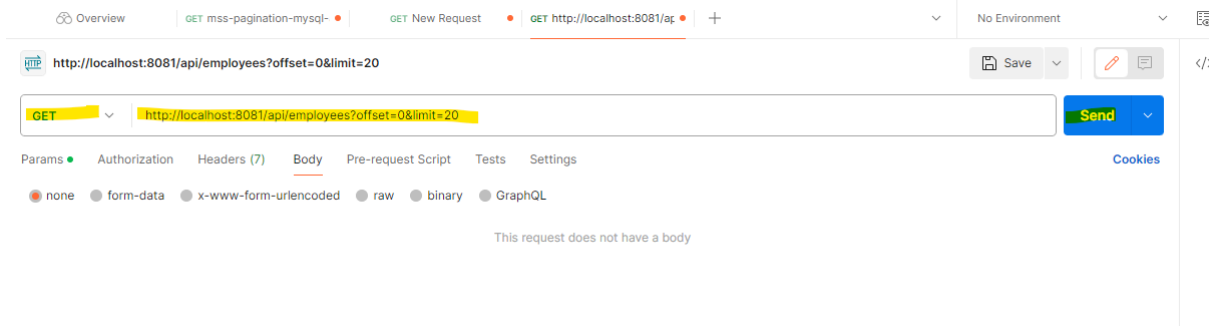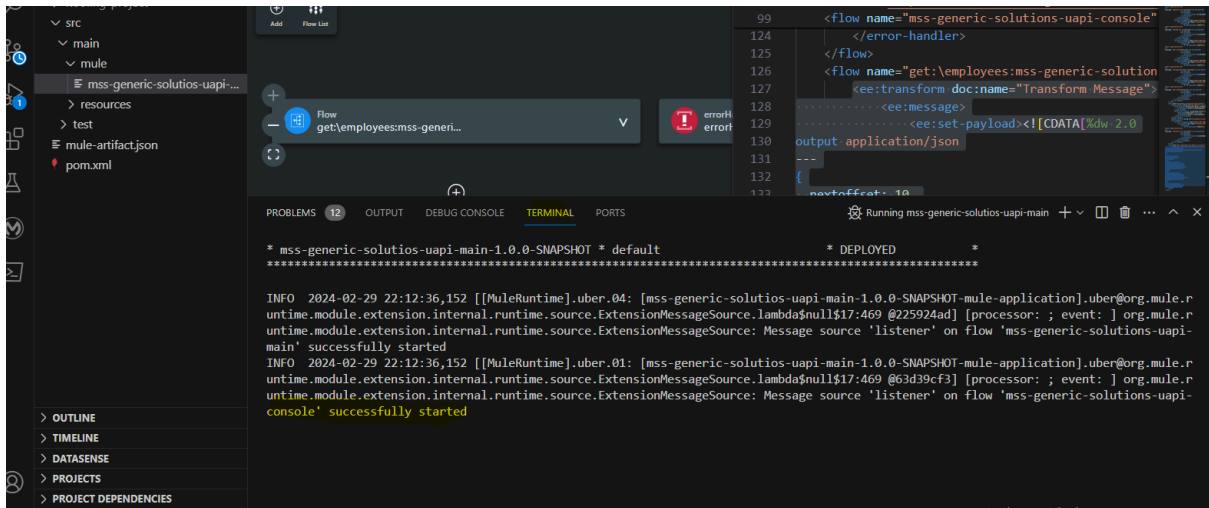SOFTWARE SYSTEMS

Implement Rest API in 2nd method in VS code

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