

Question 1 : ทำ Web API โดยใช้ .net and C#

เขียน connect database อะไรก็ได้มา 1 ตัว หรือ ใช้ UseInMemoryDatabase

ผู้สอบขอส่ง Api 3 ตัวซึ่งเป็น Method Get ทั้งหมด

- 1) **Detail.cs** : Get Data by key
- 2) **List.cs** : Get data list and filter by parameter
- 3) **MasterController.cs** : Get master data from many tables and return in master data model

Usage:

Detail.cs

The screenshot shows a REST client interface with the following details:

- Method:** GET
- URL:** /api/question/Detail/{taskId}
- Parameters:**
 - Name:** taskId (required, Integer(int32), path)
 - Description:** 69
- Buttons:** Execute, Clear, Cancel

Response:

```
{
  "dbTask": {
    "customer_company": "วิรัตน์",
    "task_id": 69,
    "task_no": "TN-256704640",
    "license_desc": "T-01234",
    "province_id": 15,
    "customer_id": 1,
    "customer_name": "ปริญญ์",
    "customer_lastname": "ข้ามสาม",
    "customer_address": "45/4 ถ.ปิ่นนาหนพ ด.ในเมือง อ.เมืองสุรินทร์ จ.สุรินทร์ 32000",
    "customer_phone": "0885956992",
    "task_amt": 14410,
    "remark": "Test-001",
    "status": "CANCELLED",
    "create_by": 3,
    "create_date": "2024-04-15T13:43:00.442473",
    "update_date": "2024-04-15T13:43:00.442473",
    "start_work_date": "2024-04-14T00:00:00",
    "appointment_date": "2024-04-18T00:00:00",
    "employee_id": 3,
    "task_date": "2024-04-14T00:00:00"
  },
  "taskDetail": [
    {
      "detail_id": 36,
      "task_id": 69,
      "spare_id": 1,
      "detail_qty": 2,
      "detail_unit_price": 5015,
      "detail_amt": 10030,
      "create_by": null,
      "create_date": "2024-04-14T16:41:07.243674",
      "update_date": null,
      "spare_desc": "4DTL",
      "detail_description": null,
      "seq": 1
    },
    {
      "detail_id": 38,
      "task_id": 69,
      "spare_id": 2,
      "detail_qty": 1,
      "detail_unit_price": 3175,
      "detail_amt": 3175,
      "create_by": 3,
      "create_date": null,
      "update_date": null,
      "spare_desc": null,
      "detail_description": null,
      "seq": 2
    }
  ]
}
```

List.cs

Response:

Request URL	
https://localhost:7033/api/question/List	
Server response	
Code	Details
200	<div>Response body</div> <pre>[{ "taskId": 76, "taskNo": "TN-256704486", "taskDate": "2024-04-22T00:00:00", "cusId": 10, "cusName": "กานต์กรีน กาญจนนา", "taskAmt": 0, "status": "SAVED", "statusDesc": "รับงานแล้ว", "licenseName": "1กก-234", "phoneNo": "0988327967" }, { "taskId": 75, "taskNo": "TN-256704581", "taskDate": "2024-04-21T00:00:00", "cusId": 4, "cusName": "วีระศักดิ์ อุดมสวัสดิสุข", "taskAmt": 7205, "status": "SAVED", "statusDesc": "รับงานแล้ว", "licenseName": "กกด-123", "phoneNo": "8975469872" }, { "taskId": 74</pre>

Filter by parameter:

Request URL	
https://localhost:7033/api/question/List?CustomerId=10	
Server response	
Code	Details
200	<div>Response body</div> <pre>[{ "taskId": 76, "taskNo": "TN-256704486", "taskDate": "2024-04-22T00:00:00", "cusId": 10, "cusName": "กานต์กรีน กาญจนนา", "taskAmt": 0, "status": "SAVED", "statusDesc": "รับงานแล้ว", "licenseName": "1กก-234", "phoneNo": "0988327967" }]</pre>

MasterController.cs

Response:

```
Curl
curl -X 'GET' \
  'https://localhost:7033/api/question/MasterData' \
  -H 'accept: text/plain'

Request URL
https://localhost:7033/api/question/MasterData

Server response

Code    Details
200
Response body
{
  "customerData": [
    {
      "value": 1,
      "text": "1 : จักรภัทร ภูมิเผือก",
      "firstName": "จักรภัทร",
      "lastName": "ภูมิเผือก",
      "companyName": "จิริมัต",
      "address": "45/4 ถ.ปิ่นนาหนนธ์ ต.ในเฌอง อ.เฌองสุรินทร์ จ.สุรินทร์ 32000",
      "phoneNumber": "0885956992"
    },
    {
      "value": 2,
      "text": "2 : a a",
      "firstName": "a",
      "lastName": "a",
      "companyName": "a",
      "address": "a",
      "phoneNumber": "1234567890"
    },
    {
      "value": 3,
      "text": "3 : ชัชญา วรภัทรศิริสกุล",
      "firstName": "ชัชญา",
      "lastName": "วรภัทรศิริสกุล",
      "companyName": "b",
      "address": "a",
      "phoneNumber": "a"
    }
  ]
}
```

Example Value | Schema

```
{
  "customerData": [
    "string"
  ],
  "status": [
    "string"
  ],
  "taskNo": [
    "string"
  ],
  "province": [
    "string"
  ],
  "employee": [
    "string"
  ],
  "spareData": [
    "string"
  ]
}
```

Question 2 :

- ทำ Method Post 1 function
- มีการส่ง request parameter เข้าไป 1 ค่าเข้าไป
- ความยาวค่าที่ส่งเข้าไปไม่เกิน 99 ตัว โดยให้ทำการ ดึงเอาค่าที่เหมือนกันที่ถูกคั่นด้วย comma ออกมา
- ให้ทำการเรียงตัวอักษรขึ้นมาก่อนตัวเลข และเรียงลำดับจากน้อยไปหามาก (optional ได้คะแนนพิเศษ)

Request:

```
Request body

{
  "str": "99,1,178,AB,A,BBA,UKS,A$,ABS,Qc"
}
```

Response:

```
200 Response body

[
  {
    "rank": "A"
  },
  {
    "rank": "A$"
  },
  {
    "rank": "AB"
  },
  {
    "rank": "ABS"
  },
  {
    "rank": "BBA"
  },
  {
    "rank": "Qc"
  },
  {
    "rank": "UKS"
  },
  {
    "rank": "1"
  },
  {
    "rank": "99"
  }
]
```

Request: Over 99 characters

[illegible]

response:

```
400
Undocumented Error: response status is 400

Response body

{
  "type": "https://tools.ietf.org/html/rfc7231#section-6.5.1",
  "title": "One or more validation errors occurred.",
  "status": 400,
  "traceId": "00-1518cf0117db1e9db998faae87d8367d-267565df38fba154-00",
  "errors": {
    "Str": [
      "The field Str must be a string or array type with a maximum length of '99'."
    ]
  }
}
```

Question 3 :

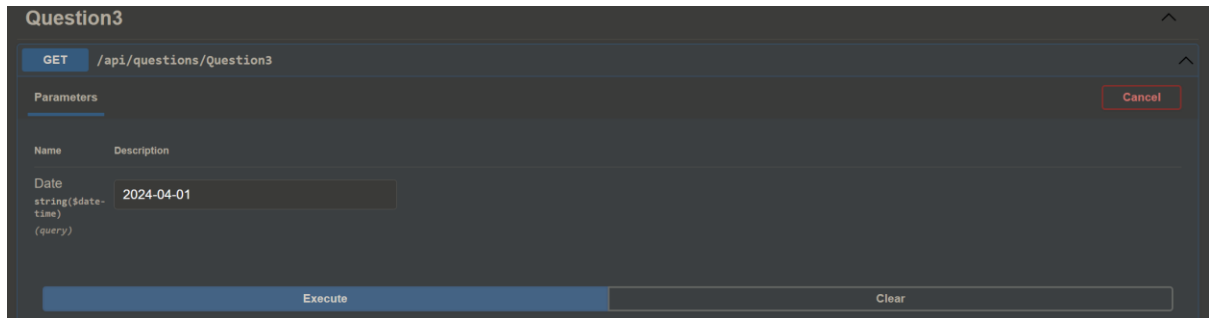
เขียน 1 function ไปเรียกใช้งาน free api อะไรก็ได้ เพื่อดึงข้อมูลมา response และแสดง format ตาม Example

Date : format เป็น yyyy-MM-dd

Country : fix เป็น usa

Request:

เนื่องจากผู้สอบลองทดสอบเล่นในหลาย ๆ ประเทศยังไม่มีข้อมูลและปีที่มีข้อมูลคือตั้งแต่ปี 2023 เป็นต้นไป



Question3

GET /api/questions/Question3

Parameters

Name	Description
Date	string(datetime)
(query)	2024-04-01

Execute Clear

Response:

```
Request URL
https://localhost:7033/api/questions/Question3?Date=2024-04-01

Server response
Code    Details
200
Response body
{
  "url": "https://covid-193.p.rapidapi.com/history?country=usa&day=2024-04-01",
  "method": "GET",
  "response": {
    "get": "history",
    "parameters": {
      "country": "usa",
      "day": "2024-04-01"
    }
  },
  "errors": [],
  "results": 2,
  "response": [
    {
      "continent": "North-America",
      "country": "USA",
      "population": 334805269,
      "cases": {
        "new": "+419",
        "active": 845469,
        "critical": 1080,
        "recovered": 109701951,
        "casesPerMillionPopulation": "333825",
        "total": 111766260
      },
      "deaths": {
        "new": null,
        "deathsPerMillionPopulation": "3640"
      }
    }
  ]
}
```