**API Microservice Mini Hackaton**

**Use Case: Query Subscriber Monthly Transaction**

**Context:**

As a software engineer, we have request from Touchpoint team to provide new API to get subscriber monthly transaction summary. Touchpoint only need total amount and total transaction for each month. For security measurement we need to validate subscriber PIN.

**Task:**

* Create sequence diagram of the API’s journey (sequencediagram.org).
* Enhance provided service to create working API according to context.

**Plus Point:**

* Unit test
* Readability and traceability code
* Simplicity

**Pre-requisites:**

* Java 17
* Apache Maven 3.9.4
* MySQL 8.0.37
* Lombok Plugin

**Resource Detail:**

* subscriber-transaction
* DB dump (xl\_playground)
* Table name: transaction
* Valid MSISDN: 62819123456
* Sample API Success Response

200 OK

{

"status": "ok",

"code": "00",

"message": "success",

"data": [

{

"month": "2024-04",

"totalAmount": 100000,

"totalTransaction": 10

},

{

"month": "2024-03",

"totalAmount": 90000,

"totalTransaction": 80

}

]

}

* Get Pin Mock

**Valid Response**

curl --location 'https://4k38m.wiremockapi.cloud/subscriber/62819123456/pin'

HTTP 200

{

    "status": "ok",

    "code": "00",

    "message": "success",

    "data": "1234"

}

**Invalid Response**

curl --location 'https://4k38m.wiremockapi.cloud/subscriber/628191/pin'

HTTP 404

{

    "status": "failed",

    "code": "01",

    "message": "subscriber not found"

}