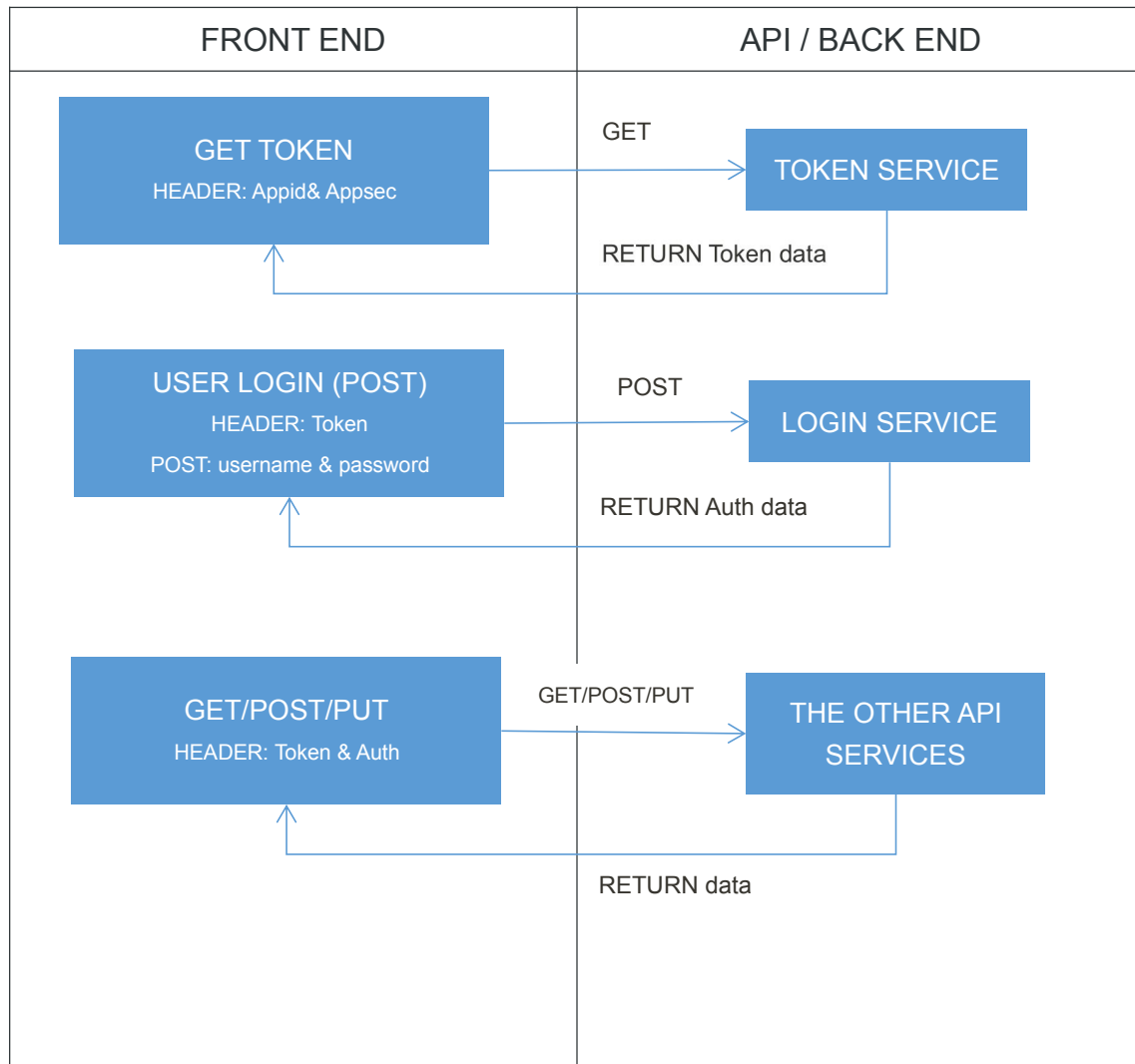


API DOCUMENTATION

I. CONCEPT / FLOW



II. DESIGN DATABASE

Design database can see in here:

<https://dbdiagram.io/d/5c12dfc1b14359001447603d>

1. applIdentifier Table

This table is to manage what apps that will be connect with our API.

We can disable the app when there is issue on security.

2. users Table

This table is to manage our users. Without login we will refused the API connection.

3. roles Table

This table is to manage module access role. For example root will be have full access for our app modules.

4. Product Table

This table to store our product and calculate the tax.

III. HOW TO USE API

Base URL: <http://localhost:8801/index.php>

phpMyAdmin URL: <http://localhost:8802>

phpMyAdmin Account

Username: testuser

Password: passw0rd

Please use the postman collection to try the API.

There are three (3) steps to use API:

- **Get Token**
- **User Login (Auth)**
- **Access/Explore API**

I use JWT technology for Token and User Login (Auth).

1. Get Token

We need **App Id** and **App Secret** to get token and passed it in the header. Currently I already setup the appIdentifier account like below:

App Id: Geeseicha5x

App Secret: Reev4leyu5nohxoo7Phip

<http://localhost:8801/index.php/token>

Appsec: Reev4leyu5nohxoo7Phip

Please copy paste the token data into header to use Login and explore the other services.

<http://localhost:8801/index.php/users/login>

Token: {token}

Password: passw0rd99

[illegible]

API QUERY STRING

1. PAGING SYSTEM

<http://localhost:8801/index.php/products/?p=1&limit=10&offset=0>

Page: p

Limit: limit

Offset: offset

```
{
  "code": "200",
  "message": "Success!",
  "total": 4,
  "page": 1,
  "limit": 10,
  "offset": 0,
  "data": [
    {
      "id": "1",
      "name": "Lucky Stretch",
      "taxcode": "2",
      "type": "Tobacco",
      "refundable": "No",
      "price": "1000.0000",
      "tax": "30.0000",
      "amount": "1030.0000"
    },
    {
      "id": "3",
      "name": "Movie",
      "taxcode": "2",
      "type": "Tobacco",
      "refundable": "No",
      "price": "150.0000",
      "tax": "13.0000",
      "amount": "163.0000"
    },
    {
      "id": "4",
      "name": "Djarum Super 12",
      "taxcode": "2",
```

```

        "type": "Tobacco",
        "refundable": "No",
        "price": "20.0000",
        "tax": "10.4000",
        "amount": "30.4000"
    },
    {
        "id": "5",
        "name": "KFC Super Besar",
        "taxcode": "3",
        "type": "Entertainment",
        "refundable": "No",
        "price": "20.0000",
        "tax": "0.0000",
        "amount": "20.0000"
    }
],
"subtotprice": "1190.00",
"subtottax": "53.4000",
"grandtot": "1243.4000"
}

```

2. SEARCHING/FILTER

[http://localhost:8801/index.php/products/?p=1&limit=10&offset=0&s\[trash\]\[eq\]=0](http://localhost:8801/index.php/products/?p=1&limit=10&offset=0&s[trash][eq]=0)

Use **s** param for searching/filter.

s[trash][eq]=0 => searching data with trash = 0

eq = equal

neq = not equal

lt = less than

gt = greater than

lte = less than equal

gte = greater than equal

like = like

3. SORTING

[http://localhost:8801/index.php/products/?p=1&limit=10&offset=0&s\[trash\]\[eq\]=0&sort\[id\]=asc](http://localhost:8801/index.php/products/?p=1&limit=10&offset=0&s[trash][eq]=0&sort[id]=asc)

Use **sort** param for sorting.

sort[id]=asc mean sorting by id Ascending

sort[id]=desc mean sorting by id Descending

4. OTHERS

Actually the API already designed to allow access/explore API without login. Sometimes we need without login user can explore our products.

5. CREDIT

This API using **Phil Sturgeon, Chris Kacerguis** library REST API for the core system.

<https://github.com/chriskacerguis/codeigniter-restserver>