### **Data Flow**

Data flow refers to how data work and transit from one endpoint to another.

Stage of data flow from Ms Server to API server:

- 1. Pulling Data from Daily procedure SQL server and store it into a backup file aligned by date.
- 2. Login to API and add a token to local storage.
- 3. Posting daily transactions from local files to API Server can be manually or automatically.

# **Project Structure**

This is how the project is structured inside the project folder. Each folder contains its purpose file

```
—dbcsv //Backup daily transaction by date and store
—doc // Document
—logs // Events logs
```

### **Detail View**

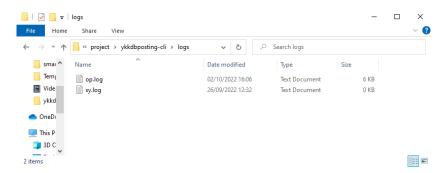
Mode	LastWriteTime		Length	Name
d	01/10/2022	11:30		dbcsv
d	01/10/2022	13:08		doc
d	26/09/2022	12:32		logs
-a	01/10/2022	11:59	444	.env
-a	27/09/2022	13:46	36	.gitignore
-a	26/09/2022	19:13	42	2022-09-26.csv
-a	01/10/2022	11:24	867	commands.js
-a	26/09/2022	12:47	428	dbConfig.js
-a	26/09/2022	16:59	978	dbOperation.js
-a	01/10/2022	11:53	2695	getDailyTransaction.js
-a	01/10/2022	11:58	1382	loginToAPI.js
-a	30/09/2022	22:23	145860	package-lock.json
-a	30/09/2022	16:43	629	package.json
-a	01/10/2022	12:06	1817	postDailyTransaction.js
-a	01/10/2022	11:36	2923	postData.js
-a	27/09/2022	19:05	228	README.md
-a	26/09/2022	14:21	871	toDateFM.js
-a	01/10/2022	11:35	264	tokens.json

## **Event log file**

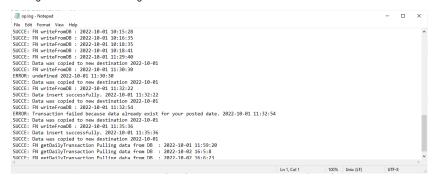
Where is the journal of the event?

Each process is properly written into a log file at the specific date time. Here is the event log file located.

logs/op.log



## The log should look as following:



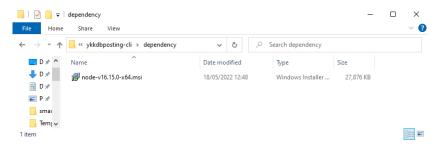
# Install and Deployment

There are few packages that need to be installed before running the script.

### 1 Dependency

- Nodejs version : v16.15.0
- npm version: 8.5.5

Install Nodejs in the dependency folder.



initial project by install dependency go to project directory enter the following command

#### npm install

```
up to date, audited 197 packages in 1s

64 packages are looking for funding
run `npm fund` for details

found @ vulnerabilities

C:\Users\Ayoung\project\ykkdbposting-cli>_
```

## npm link

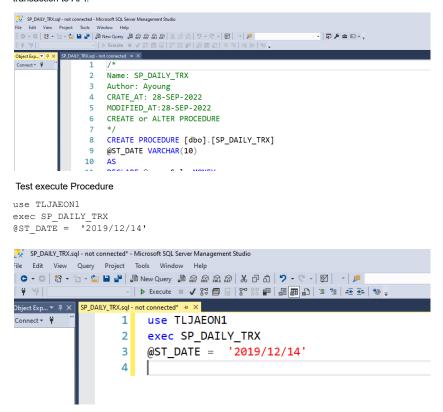
```
C:\Users\Ayoung\project\ykkdbposting-cli>npm link

up to date, audited 3 packages in 1s

found 0 vulnerabilities
```

## 2 Deploy SP Script

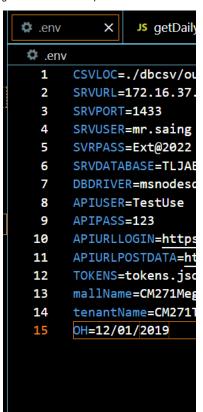
Get  $SP\_DAILY\_TRX.sql$  and run on MSSQL server at each database that needs to post the transaction to API.



The result should display up on the completion of execution of above script.

# 3 Environment Configuration

go and edit .env file replace with actual environment configuration.



### **4 Test From Command Line**

Posting daily sale by: Store, Date, Mall Name, Tenant Name:

ykkdbposting-cli p TLJAEON1 2019-12-13 CM271MegaMall CM271TheAsianKitchen

## Showing Transaction by Store and Date.

ykkdbposting-cli s TLJAEON1 2019-12-13

```
metSale: 4522381.93,
cashAmount: 1831380,
creditCardnaount: 8,
otherAmount 1843480,
totalCreditCardransaction: 8,
totalCreditCardransaction: 8,
totalCreditCardransaction: 214,
depositAmountNel: 14665300,
exchangeRate: 4080

Start posting data ...
updating Access Token ...
480 Unauthorized undefined
C:\Users\Ayoung\project\ykkdbposting-cli>ykkdbposting-cli s TLJAEONI 2019-12-13

{
grossSale: 4974700,
taxAmount: 452238.23,
netSale: 4522381.93,
cashAmount: 1831380,
creditCardnaount: 0,
otherAmount: 1183480,
totalCreditCardransaction: 0,
totalTransaction: 214,
depositAmountHel: 4605300,
exchangeRate: 4080

C:\Users\Ayoung\project\ykkdbposting-cli>ykkdbposting-cli s TLJAEONI 2019-12-13

(
grossSale: 4974700,
taxAmount: 352238.23,
netSale: 4974700,
totalCreditCardnaount: 0,
otherAmount: 1183480,
depositAmountHel: 4605300,
exchangeRate: 4080
```

# **Running and Create New Script**

1. script posting daily transaction

ykkdbposting.bat

02/10/2022 18:00

Windows Batch File