

## Data Source

THIRD PARTY API URL : [https://s3.amazonaws.com/roxiler.com/product\\_transaction.json](https://s3.amazonaws.com/roxiler.com/product_transaction.json)

REQUEST METHOD : GET

RESPONSE FORMAT : JSON

## GET

### Create API to initialize the database

Fetch the JSON from the third party API and initialize the database with seed data. You are free to define your own efficient table / collection structure

## Instruction

All the APIs below should take month ( **expected value is any month between January to December** ) as an input and should be matched against the field **dateOfSale** regardless of the year.

## GET

### Create an API for statistics

- Total sale amount of selected month
- Total number of sold items of selected month
- Total number of not sold items of selected month

## GET

**Create an API for bar chart** ( the response should contain price range and the number of items in that range for the selected month regardless of the year )

- 0 - 100
- 101 - 200
- 201-300
- 301-400
- 401-500
- 501 - 600
- 601-700
- 701-800
- 801-900
- 901-above

## GET

### Create an API for pie chart

Find unique categories and number of items from that category for the selected month regardless of the year.

For example :

- X category : 20 (items)
- Y category : 5 (items)
- Z category : 3 (items)

**GET**

Create an API which fetches the data from all the 3 APIs mentioned above, combines the response and sends a final response of the combined JSON