

# Lesson 01

APIs & JSON



# API

- An **Application Programming Interface** (API) is an interface or communication protocol between different parts of a computer program intended to simplify the implementation and maintenance of software.
- An API may be for a web-based system, operating system, database system, computer hardware, or software library

# JSON

- **JavaScript Object Notation** is an open-standard file format or data interchange format that uses human-readable text to transmit data objects consisting of attribute–value pairs and array data types. It is a very common data format, with a diverse range of applications.

# JSON

- { }. = JSON Object
- [ ]. = JSON Array
- “key” : “value” //String
- “key” : value //numerical values

# JSON

```
{  
  "name": "Juan Dela Cruz"  
}
```

```
{  
  "weight": 53.6  
}
```

```
{  
  "age": 28  
}
```

```
{  
  "street": "Sen. Neptali A",  
  "city": "Makati"  
}
```

```
[  
  "Ice Cream",  
  "Cake",  
  "Kare-Kare",  
  "Corndogs",  
  "Burger"  
]
```

# JSON

```
{  
  "name": "Juan Dela Cruz",  
  "age": 28,  
  "weight": 53.6,  
  "address": {  
    "street": "Sen. Neptali A",  
    "city": "Makati"  
  },  
  "food": [  
    "Ice Cream",  
    "Cake",  
    "Kare-Kare",  
    "Corndogs",  
    "Burger"  
  ]  
}
```

# RESTful API

- A RESTful API is an application program interface (API) that uses HTTP requests to **GET**, **PUT**, **POST** and **DELETE** data.

# Hands-on



# What you will learn

- Using a simple REST API (GET)
- Parsing a JSON.
- Some error handling techniques

**Have a good  
day!**



<https://github.com/JcDelaCueva/nu-calamba-lessons>