

LẬP TRÌNH ANDROID NÂNG CAO



BÀI 3 : - WEB API

THAY VU

 Phần I: Database QLBA NSACH

 Phần II: JSON & PHP API Server

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PHẦN I : DATABASE QLBANSACH

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1. DATABASE QL BANSACH

- Cài đặt XAMPP
- Mở PHP MyAdmin
- Mở MySQL

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1. DATABASE QLBANSACH

qlbansach chitiethoadon	
🔑	Mahd : int(11)
🔑	Masach : int(11)
#	Dongia : int(11)
#	Soluong : int(11)
#	Thanhtien : int(11)

qlbansach khachhang	
🔑	tendangnhap : varchar(15)
🔑	matkhau : varchar(15)
🔑	diachi : varchar(40)
🔑	email : varchar(30)

qlbansach sach	
🔑	Masach : int(11)
🔑	Tensach : varchar(100)
#	Dongia : int(11)
🔑	Mota : varchar(1000)
🔑	Hinhminhhoa : varchar(50)
#	Machude : int(11)
🔑	Ngaycapnhat : date
#	Soluongban : int(11)
🔑	Hinhchitiet : varchar(100)

qlbansach hoadon	
🔑	Mahd : int(10)
🔑	Makh : varchar(15)
🔑	Ngayhd : date
#	Tongtien : int(11)

qlbansach quangcao	
🔑	maq : int(11)
🔑	tenqc : varchar(50)
🔑	ngaybatdau : date
🔑	ngayketthuc : date

qlbansach chude	
🔑	MaChuDe : int(11)
🔑	TenChuDe : varchar(50)
🔑	HinhChuDe : varchar(20)

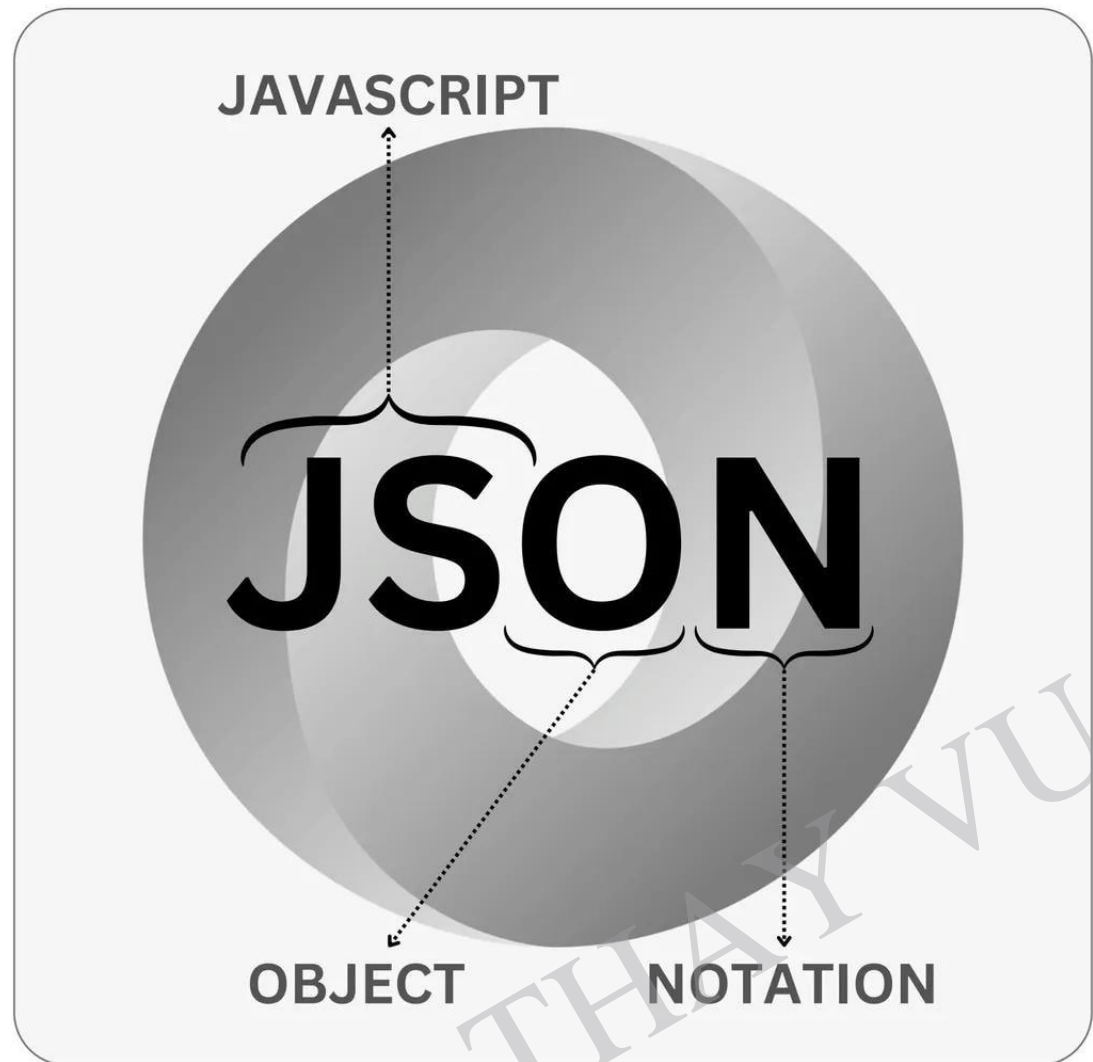
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PHẦN II : JSON & PHP API SERVER

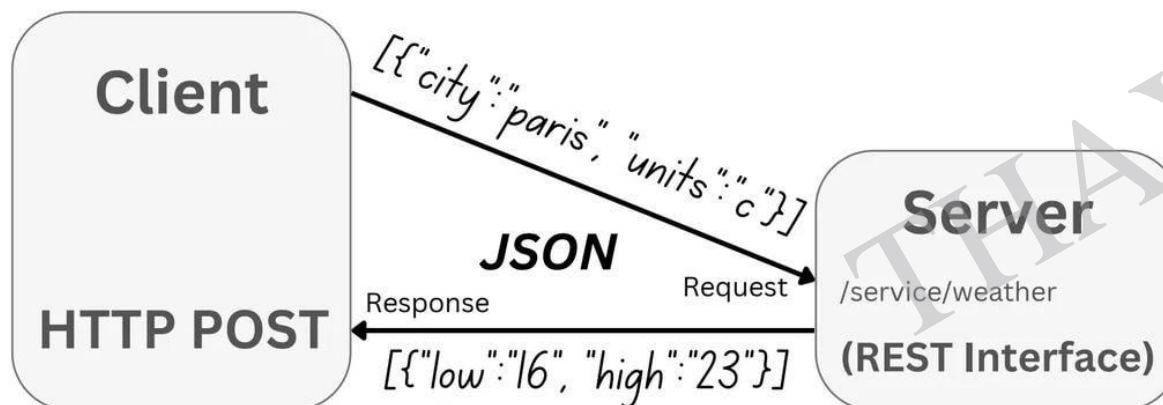
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□ JSON là gì?



JSON

- JSON stands for JavaScript Object Notation.
- JSON is a lightweight format for storing & transporting data.
- JSON is "self-describing" and easy to understand.
- JSON is often used when data is sent from a server to a web page.



JSON EXAMPLE

```
{  
  "employees": [  
    {"firstName": "John", "lastName": "Doe"},  
    {"firstName": "Anna", "lastName": "Smith"},  
    {"firstName": "Peter", "lastName": "Jones"}  
  ]  
}
```

This example defines an employees object: *an array of 3 employee records (objects)*

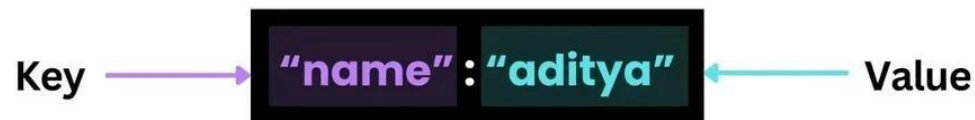
Key and Values →

KEY AND VALUES

The two primary parts that make up **JSON** are **keys** and **values**.

Together they make a key/value pair :-

- **Key:** A key is always a string enclosed in quotation marks.
- **Value:** A value can be a string, number, boolean expression, array, or object.



The **key** is `"name"` and the **value** is `"aditya"`.

JSON.parse() →

JSON.parse()

When receiving data from a web server, the data is always a **string**.

Imagine we received this text from a web server

```
'{"name": "Aditya", "age": 19, "country": "India"}'
```

Use the JavaScript function **JSON.parse()** to convert text into a JavaScript object

```
var obj = JSON.parse('{"name":"Aditya", *age":19, "country","India"}');
```

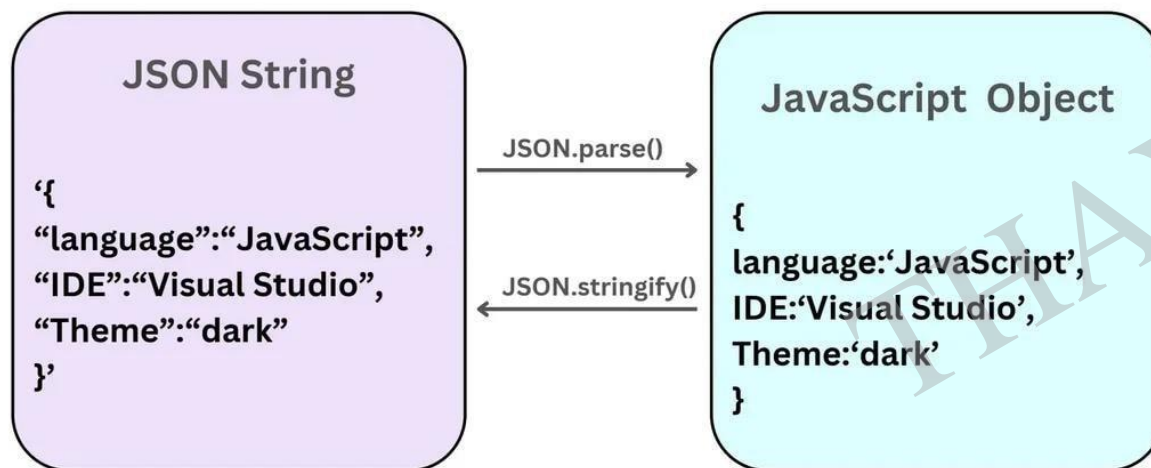
JSON.stringify()

JSON.stringify()

The **JSON.stringify()** method converts a JavaScript object or value to a JSON string, optionally replacing values if a replacer function is specified or optionally including only the specified properties if a replacer array is specified.

SYNTAX

JSON. stringify(value, replacer, space)



JSON VALUES

in JSON, values must be one of the following data types:

- **string**
- **number**
- **object (JSON object)**
- **array**
- **boolean**
- **null**



Let's Summarize



RECAP

JSON is a **minimal data format**. Just by learning a **few key principles you can decode** an entire site's worth of **JSON**.

 **JSON**



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□ Connect

```
<?php
    $connect =
mysqli_connect("localhost","root","","qlbansach");
    mysqli_query($connect,"SET NAMES 'utf8'");
?>
```

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□ GetChude.php

```
<?php
    include_once 'connectDB.php';

    $sql = "select * from chude";
    $data = mysqli_query($connect,$sql);
    $arr = array();
    while($row=mysqli_fetch_assoc($data))
    {
        array_push($arr, $row);
    }
    header("Content-type:application/json;charset=UTF-8");
    echo json_encode($arr,JSON_UNESCAPED_UNICODE |
JSON_PRETTY_PRINT);
?>
```

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□ GetSach.php

```
<?php
include_once "connectDB.php";

$sql = "select * from sach";

if(isset($_POST['sachgi'])) {
    $sachgi=$_POST['sachgi'];
    if($sachgi=="sachmoi")
        //lay sach moi
        $sql = "select * from sach order by Ngaycapnhat DESC
LIMIT 6";
    else
        //lay sach ban chay
        $sql = "select * from sach order by Soluongban DESC LIMIT
6";
}
...Con tiếp
```

□ GetSach.php

```
else if(isset($_POST['macd'])){\n//lay sach theo chu de\n    $macd = $_POST['macd'];\n    $sql = "select * from sach where Machude='$macd'";\n}\n\n$data = mysqli_query($connect, $sql);\n$arr = array();\nwhile ($row = mysqli_fetch_assoc($data)) {\n    array_push($arr, $row);\n}\nheader("Content-type:application/json;charset=UTF-8");\necho json_encode($arr, JSON_UNESCAPED_UNICODE | JSON_PRETTY_PRINT);\n\n?>
```

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2. PHP WEB API

❑ TaoKhachHang.php

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❑ GetChude.php

```
<?php
    include_once 'connectDB.php';

    $sql = "select * from chude";
    $data = mysqli_query($connect,$sql);
    $arr = array();
    while($row=mysqli_fetch_assoc($data))
    {
        array_push($arr, $row);
    }
    header("Content-type:application/json;charset=UTF-8");
    echo json_encode($arr,JSON_UNESCAPED_UNICODE |
JSON_PRETTY_PRINT);
?>
```

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