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What is JSON?

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What is JSON?

- ➡ **JSON** stands for **J**avaScript **O**bject **N**otation.
- ➡ **JSON** is a lightweight format for storing and transporting data.
- ➡ **JSON** becomes a medium of communication between the two machines.



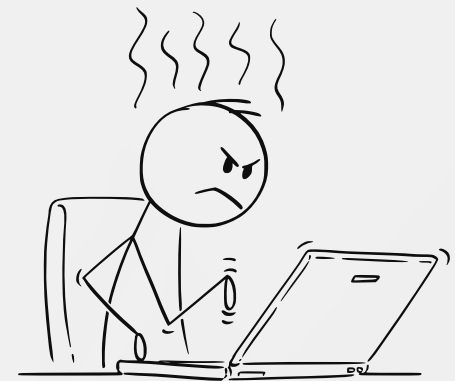
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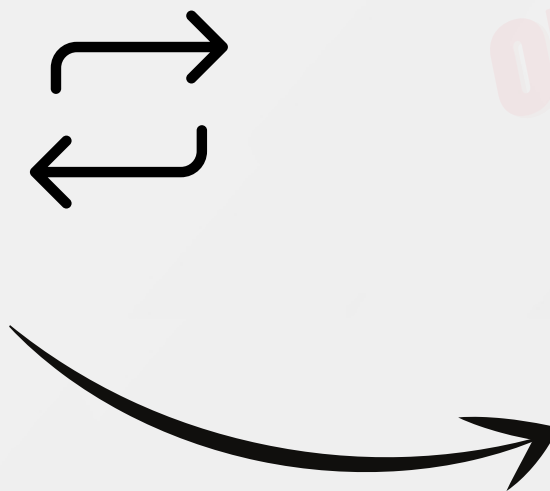
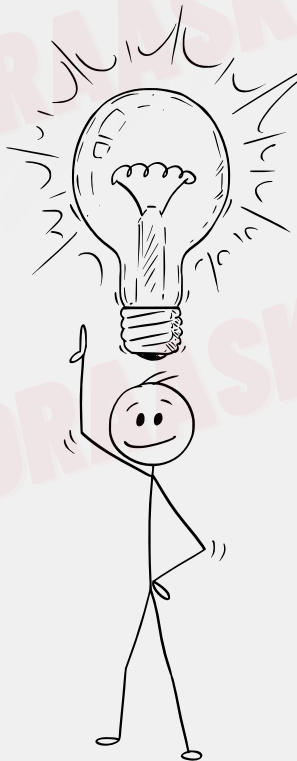
You want to send data to another machine?

How will the recipient machine understand it?



Convert your data into JSON.

Other machines can simply parse it to understand



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Key Points When Encoding Data to JSON

- ➡ Key/value pairs.
- ➡ Each pair is separated by commas.
- ➡ Curly braces encapsulate objects.
- ➡ Square brackets encapsulate arrays.
- ➡ Arrays are called JSON Arrays.
- ➡ JSON arrays hold JSON objects.
- ➡ A JSON object can contain another JSON object, and This is called **N**ested **J**SON **O**bjects.



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Example of JSON Object

```
{  
  "name:" XYZ,  
  "age:" 32  
}
```



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Example of JSON Array

```
[  
  {  
    "name:" XYZ,  
    "age:" 32  
  },  
  {  
    "name:" ABC,  
    "age:" 35  
  }  
]
```



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Why Do Developers Prefer JSON?

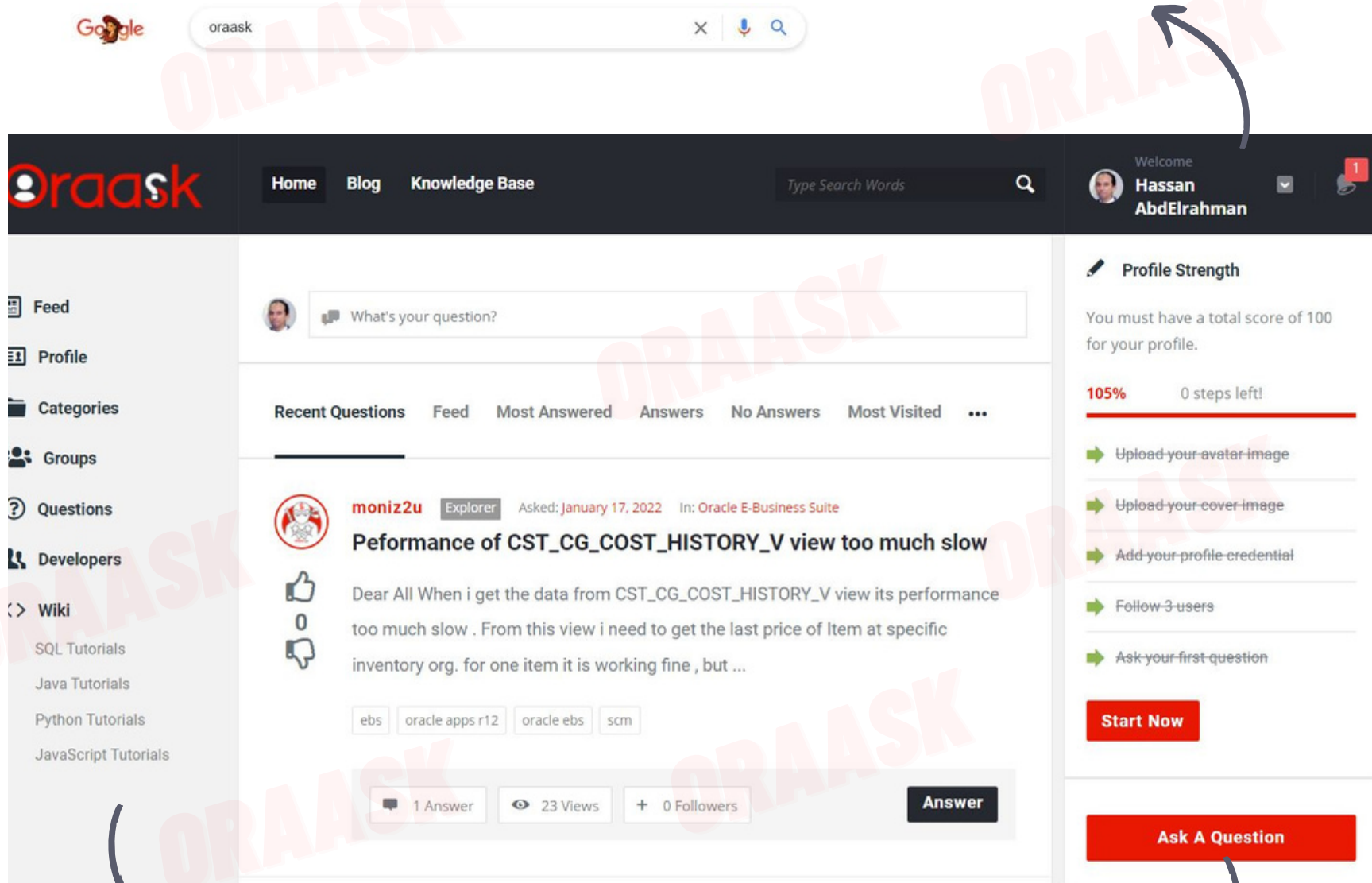
- ➡ Simple to build and debug.
- ➡ Low light-weight payload size.
- ➡ Acceptable across all modern high-level programming languages



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