JSON Best Practices:

Enclose within DOUBLE Quotes

Always enclose the **Key: Value** pair within **double quotes.** It may be convenient (not sure how) to generate with Single quotes, but JSON parser don't like to parse JSON objects with single quotes.

For numerical Values, quotes are optional but is a good practice to enclose them in double quote.

```
{'id': '1', 'name':File} is not right X
{"id": 1, "name":"File"} is okay ✓
{"id": "1", "name":"File"} is the best ✓
```

No Hyphens please

Never Never Never use Hyphens in your Key fields. It breaks python, scala parser and developers have to escape it to use those fields.

Instead of Hyphens use underscores (_). But using alllower case or camel Case is the best. See samples below.

```
{"first-name":"Rachel","last-name":"Green"} is not right.
X {"first_name":"Rachel","last_name":"Green"} is okay ✓
{"firstname":"Rachel","lastname":"Green"} is okay ✓
{"firstName":"Rachel","lastName":"Green"} is the best. ✓
```

Always create a Root element.

Creation of Root element is optional, but it helps when you are generating complicated JSON.

```
"popup": {
             "menuitem": [
                  {"name": "Undo", "value": "2U", "onclick": "undo()"},
                  {"name":"Copy", "value": "2C", "onclick": "copy()"},
                  {"name":"Cut", "value": "2T", "onclick": "cut()"}
             }
}JSON without root element[
         "id": "1",
         "name": "File",
         "value": "F",
         "popup": {
             "menuitem": [
                  {"name": "New", "value": "1N", "onclick": "newDoc()"},
                  {"name":"Open", "value": "10", "onclick": "openDoc()"},
                 {"name": "Close", "value": "1C", "onclick": "closeDoc()"}
             }
    },
         "id": "2",
        "name": "Edit",
         "value": "E",
         "popup": {
             "menuitem": [
                  {"name": "Undo", "value": "2U", "onclick": "undo()"},
                 {"name":"Copy", "value": "2C", "onclick": "copy()"}, {"name":"Cut", "value": "2T", "onclick": "cut()"}
             }
```

Provide META sample

The idea of JSON is flexibility so you don't have to restrict your data feed within few columns.

But at the same time, if you are providing large data set with nested levels, the consumer will go crazy. Provide them with the meta / sample, so it helps them to understand what data to look for and what to skip.

Meta sample can be

```
menu.id: integer — unique identifier
menu.name: string — name of the menu
menu.value: string — internval id of the menu
menu.popup.menuitem.name: string — name of the submenu
menu.popup.menuitem.value: string — interlal id of the submenu
menu.popup.menuitem.onclick: string — client event of the submenu
```

Validating JSON output

Using command line tools like ajv-cli / jsonlint (can be installed via any package manager) will eliminate trouble for consumers.