

JSON request body comparisons in Mock Server

In this post, we will see, how we can use variables in JSON request body to make mock server more useful for our needs. Mock server request body matching works in the same way as we compare response body by using Default Validator in vREST.

We will now cover various scenarios to match JSON request body:

Scenario 1: When we want to compare static JSON request body in the incoming mock request

If we want to return some API mock response based on static JSON request body then in that case, simply define the static JSON request body in **API Mock >> Request tab >> Raw Body sub tab**.



The screenshot shows the Mock Server interface for an API mock. The title is "33. API mock containing static JSON request body". The method is POST and the URL is http://localhost:3000/vrest/m/SP/create_resource. The "Request" tab is selected, and the "Raw Body" sub-tab is active. The JSON body is defined as follows:

```
1 {
2   "name": "John Doe",
3   "email": "john.doe@example.com",
4   "designation": "Chief Technical Officer",
5   "organization": "Example.com",
6   "country": "India",
7   "aboutMe": "My name can be used as a placeholder name and I don't have any identity.",
8   "twitterId": "fake.john.doe",
9   "facebookId": "fake.john.doe",
10  "githubId": "fake.john.doe"
11 }
```

Below the JSON body, a message states: "Raw Body" is enabled, so parameters of type "body" defined in the "Parameters" tab, will be ignored.

Now, in the incoming mock request, if the request URL and method matches and request body of the incoming mock request matches exactly with the JSON body specified in the above image then mock server will return the response specified in the response tab of this API mock.

Scenario 2: When we want to ignore values of some of the properties of the JSON request body in the incoming mock request

Now, suppose in scenario 1, we don't want to compare the value of name and email property in the JSON request body then we may write the raw body like this by using special variable `{{*}}`:



The screenshot shows the Mock Server interface for an API mock. The title is "34. API mock containing special variables in JSON request body". The method is POST and the URL is http://localhost:3000/vrest/m/SP/create_resource. The "Request" tab is selected, and the "Raw Body" sub-tab is active. The JSON body is defined as follows:

```
1 {
2   "name": "{{*}}",
3   "email": "{{*}}",
4   "designation": "Chief Technical Officer",
5   "organization": "Example.com",
6   "country": "India",
7   "aboutMe": "My name can be used as a placeholder name and I don't have any identity.",
8   "twitterId": "fake.john.doe",
9   "facebookId": "fake.john.doe",
10  "githubId": "fake.john.doe"
11 }
```

Scenario 3: When we want to only compare some specific properties of the JSON request body in the incoming mock request

Now, suppose we want to validate the existence of property name and want to compare the value of email property and we want to ignore rest of the properties in the JSON request body, then we may write the raw body like this:

35. API mock for partial JSON request body comparison
POST http://localhost:3000/vrest/m/SP/create_resource

Details Request Response

Parameters Raw Body Headers

JSON Enabled Save Changes

```
1 {
2   "name": "{{*}}",
3   "email": "john.doe@example.com",
4   "{{*}}": "{{*}}"
5 }
```

Scenario 4: When we want to use some part of the incoming JSON request body in constructing the response of this mock API.

Now suppose we want to extract the name and email property from the incoming mock request and we want to use these properties in constructing the response of our Mock API. First we will see, how we may extract values from incoming JSON request body:

To extract the name and email property from the request JSON body, simply declare them as variables in the JSON request body as shown below.

36. API mock for extracting values from JSON request body to use it in mock response
POST http://localhost:3000/vrest/m/SP/create_resource

Details Request Response

Parameters Raw Body Headers

JSON Enabled Save Changes

```
1 {
2   "name": "{{name}}",
3   "email": "{{email}}",
4   "{{*}}": "{{*}}"
5 }
```

Now, you may use these extracted variables in the API mock response like this:

36. API mock for extracting values from JSON request body to use it in mock response
POST http://localhost:3000/vrest/m/SP/create_resource

Details Request Response

Body Headers

JSON Status Code 200 Save Changes

```
1 {
2   "id": "{{email}}",
3   "name": "{{name}}",
4   "email": "{{email}}"
5 }
```