

The background of the slide features an abstract design with various shades of blue. On the right side, there are overlapping geometric shapes, including triangles and polygons, in different tones of blue, ranging from light to dark. The left side is mostly white, with a thin blue vertical strip on the far left edge.

Test Automation JSON as a Data Source

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What is JSON?

- ▶ JSON (JavaScript Object Notation)
- ▶ Data format - easy for humans/computers to read and manipulate
- ▶ Follows a Key, Value structure

What is JSON?

- ▶ Key : Value
 - ▶ Must be a pair
 - ▶ Keys must be unique
 - ▶ Example → `"username" : "test_user1", "password" : "tropical1"`
- ▶ Key-Value pair must be within braces { }
 - ▶ Example → `{ "username" : "test_user1", "password" : "tropical1" }`

What is JSON?

- ▶ Key - Must be string
- ▶ Value - must be string, number, array, Boolean or json object

JSON Example

```
{  
  "user0" : {  
    "firstName" : "John",  
    "middleName" : ,  
    "account" : {  
      "accountNumber" : 123456,  
      "isAccountActive" : false,  
      "last5Transactions" : [  
        {"amount" : "8.67"},  
        {"amount" : "5.00"},  
        {"amount" : "3.09"}  
      ]  
    }  
  }  
}
```

Key

JSON Example

```
{  
  "user0" : {  
    "firstName" : "John",  
    "middleName" : ,  
    "account" : {  
      "accountNumber" : 123456,  
      "isAccountActive" : false,  
      "last5Transactions" : [  
        {"amount" : "8.67"},  
        {"amount" : "5.00"},  
        {"amount" : "3.09"}  
      ]  
    }  
  }  
}
```

← Value

JSON Example

```
{
  "user0" : {

    "firstName" : "John",
    "middleName" : ,

    "account" : {

      "accountNumber" : 123456,

      "isAccountActive" : false,

      "last5Transactions" : [
        { "amount" : "8.67" },
        { "amount" : "5.00" },
        { "amount" : "3.09" }
      ]
    }
  }
}
```

Key string value

JSON Example

```
{
  "user0" : {

    "firstName" : "John",

    "middleName" : ,
    Key      Null Value

    "account" : {

      "accountNumber" : 123456,

      "isAccountActive" : false,

      "last5Transactions" : [
        {"amount" : "8.67"},
        {"amount" : "5.00"},
        {"amount" : "3.09"}
      ]
    }
  }
}
```


JSON Example

```
{  
  "user0" : {  
  
    "firstName" : "John",  
  
    "middleName" : ,  
  
    "account" : {  
      "accountNumber" : 123456,  
  
      "isAccountActive" : false,  
  
      "last5Transactions" : [  
        {"amount" : "8.67"},  
        {"amount" : "5.00"},  
        {"amount" : "3.09"}  
      ]  
    }  
  }  
}
```

Key JSON Object Value

JSON Example

```
{
  "user0" : {

    "firstName" : "John",

    "middleName" : ,

    "account" : {

      "accountNumber" : 123456,
      "isAccountActive" : false,

      "last5Transactions" : [
        {"amount" : "8.67"},
        {"amount" : "5.00"},
        {"amount" : "3.09"}
      ]
    }
  }
}
```

↑ Key ↑ Number Value

JSON Example

```
{
  "user0": {

    "firstName": "John",

    "middleName": ,

    "account": {

      "accountNumber": 123456,

      "isAccountActive": false,
      "last5Transactions": [
        {"amount": "8.67"},
        {"amount": "5.00"},
        {"amount": "3.09"}
      ]
    }
  }
}
```

↑ Key ↑ Boolean Value

JSON Example

```
{
  "user0": {

    "firstName": "John",

    "middleName": ,

    "account": {

      "accountNumber": 123456,

      "isAccountActive": false,

      "last5Transactions": [
        { "amount": "8.67" },
        { "amount": "5.00" },
        { "amount": "3.09" }
      ]
    }
  }
}
```

Key Array Value

JSON Example

```
{  
  "user0" : {  
  
    "firstName" : "John",  
  
    "middleName" : ,  
  
    "account" : {  
  
      "accountNumber" : 123456,  
  
      "isAccountActive" : false,  
  
      "last5Transactions" : [  
        {"amount" : "8.67"},  
        {"amount" : "5.00"},  
        {"amount" : "3.09"}  
      ]  
    }  
  }  
}
```

Key Array Value

JSON Example

```
{
  "user0" : {

    "firstName" : "John",

    "middleName" : ,

    "account" : {

      "accountNumber" : 123456,

      "isAccountActive" : false,

      "last5Transactions" : [
        { "amount" : "8.67" },
        { "amount" : "5.00" },
        { "amount" : "3.09" }
      ]
    }
  }
}
```

Key
Array Value

```
    "last5Transactions" : [
      { "amount" : "9.09" },
      { "amount" : "7.77" },
      { "amount" : "0.05" },
      { "amount" : "9.03" },
      { "amount" : "999.99" }
    ],
    "pendingTransactionAmounts" : [12, 89, 37]
```

JSON Object Array

Key

Integer Array

JSON Example

```
{
  "user0" : {
    "firstName" : "John",
    "middleName" : ,
    "account" : {
      "accountNumber" : 123456,
      "isAccountActive" : false,
      "last5Transactions" : [
        {"amount" : "8.67"},
        {"amount" : "5.00"},
        {"amount" : "3.09"}
      ],
      "pendingTransactionAmounts" : ["12.67", "89.54", "37.29"]
    }
  },
  "user1" : {
    "firstName" : "Bob",
    "middleName" : ,
    "account" : {
      "accountNumber" : 654321,
      "isAccountActive" : true,
      "last5Transactions" : [
        {"amount" : "9.09"},
        {"amount" : "7.77"},
        {"amount" : "0.05"},
        {"amount" : "9.03"},
        {"amount" : "999.99"}
      ],
      "pendingTransactionAmounts" : ["67.12", "54.89", "29.39"]
    }
  }
}
```

The slide features a light blue background with a large, abstract graphic on the right side. This graphic is composed of several overlapping triangles in various shades of blue, ranging from a very light, almost white blue to a deep, dark navy blue. The triangles are arranged in a way that creates a sense of depth and movement, with some pointing towards the center and others towards the edges. The overall effect is modern and professional.

Questions?