Database Management Systems Laboratory

Assignment B6

Date of Submission: 5-11-2020

Title: JSON

Roll number: 31301

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Class: TE-3

Batch: K-3

PICT, Pune

ASSIGNMENT B6

TITLE	JSON
DATE	

PROBLEM STATEMENT
Create simple objects and arrays objects using JSON.

LEARNING OBJECTIVES
- Understand the concept objects in JSON.
- Understand the simple and array objects.

LEARNING OUTCOMES
Students will be able to understand objects in JSON and implement them.

H\w & s\w REQUIREMENTS
64 bit OS, Fedora OS, Computer, Keyboard, Monitor, Mouse.

THEORY • JSON objects can be created with Javascript. The other ways of creating JSON objects using Javascript or:

↳ Creation of an empty Object-
var JSONObj = {};

↳ Creation of a new Object-

var JSONObj = new Object();

↳ Creation of an object with attribute bookname with value in string, attribute price with numeric value.
Attribute is accessed by using '.' Operator-

var JSONObj = { "bookname":
" VB BLACK BOOK",
"price" : 500};

Creating Array Objects

The following example shows creation of an array object in javascript using JSON.:

```
<html>
<head>
    <title> Creating array object using JSON</title>
    <script language = "javascript">
    document.writeln ("<H2>JSON array obje<H2>");

    var books= { "Pascal": [
        { "Name": "Pascal Made Simple", "price":700},
        { "Name": "Guide to Pascal", "price:400],
    }

        "Scala": [
        { "Name": "Scala for the Impatient", "price":1000},
        { "Name": "Scala in Depth", "price: 130 0]
        }

        Var i = 0

        document.writeln ("<table border='2'><t
```

```
for (i=0; i<books.Pascal.length; i++ )
{ document.writeln("<td>");
  document.writeln("<table border='1' width
                =100>");
  document.writeln("<tr><td><b>Name
  </b></td><td width=50>"+
    books.Pascal[i].Name+ "</td><tr>");
  document.writeln("<tr><td><b> Price
  </b></td><td width=50>"+books.
    Pascal[i].price + "</td></tr>");
    document.writeln ("</table");
    document.writeln ("</td>");
}

for (i=0; i< books.Scala.length; i++ )
{ document.writeln ("<td>");
  document.writeln( "<table border='1'
  width=100>");
  document.writeln("<tr><td><b>
  Name </b></td> <td width=50
  +books.Scala[i].Name+ "</td><tr>").
  document.writeln ("<tr><td> <b>
  Price </b></td><td width=50>"
  + books.Scala[i].price + "</td><tr>");
  document.writeln("</table>").
  document.writeln(" </td>");
}
```

```
document.writeln("</tr></table>");
</script>
</head>
<body>
</body>
</html>
```

Conclusion   Thus we have successfully understood
             how to create and implement objects
             in JSON.

OUTPUT

```html
<html>
<head>
</head>
<body>
<script type="text/javascript">
var jsonobj = {"Name":"Aboli Marathe","Year":"2020"};
document.write("<h1>JSON Object</h1><hr>");
document.write("<h2>Name</h2>"+jsonobj.Name+"<br>");
document.write("<h2>Year</h2>"+jsonobj.Year+"<br>");
var books = { "Pascal" : [
{ "Name" : "Pascal Made Simple", "price" : 700 },
{ "Name" : "Guide to Pascal", "price" : 400 }],
"Scala" : [
{ "Name" : "Scala for the Impatient", "price" : 1000 },
{ "Name" : "Scala in Depth", "price" : 1300 }]
}
var i = 0
document.writeln("<table border = '2'><tr>");
for(i = 0;i<books.Pascal.length;i++){
document.writeln("<td>");
document.writeln("<table border = '1' width = 100 >");
document.writeln("<tr><td><b>Name</b></td><td width = 50>" +
books.Pascal[i].Name+"</td></tr>");
document.writeln("<tr><td><b>Price</b></td><td width = 50>" + books.Pascal[i].price
+"</td></tr>");
document.writeln("</table>");
document.writeln("</td>");
}
for(i = 0;i<books.Scala.length;i++){
document.writeln("<td>");
document.writeln("<table border = '1' width = 100 >");
document.writeln("<tr><td><b>Name</b></td><td width = 50>" +
books.Scala[i].Name+"</td></tr>");
document.writeln("<tr><td><b>Price</b></td><td width = 50>" +
books.Scala[i].price+"</td></tr>");
document.writeln("</table>");
document.writeln("</td>");
}
document.writeln("</tr></table>");
</script>
</body>
```

JSON Object

Name

Aboli Marathe

Year

2020

Name	Pascal Made Simple		Name	Guide to Pascal		Name	Scala for the Impatient		Name	Scala in Depth
Price	700		Price	400		Price	1000		Price	1300