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BACK-END TECHNOLOGIES

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EXPERIMENT NO. 1.1

Q. Create Employee Salary Program using NodeJS.

SOLUTION: -

INTRODUCTION:- **WhatisNodeJS?**

Node.js is an open-source, cross-platform JavaScript runtime environment and library for running web applications outside the client's browser. Ryan Dahl developed it in 2009, and its latest iteration, version 15.14, was released in April 2021. Developers use Node.js to create server-side web applications, and it is perfect for data-intensive applications since it uses an asynchronous, event-driven model.

CODE: -

```
//HTML Code

<!DOCTYPEhtml>
<htmllang="en">
<head>
<metacharset="UTF-8">
<metaname="viewport"
content="width=devicewidth, initial-
scale=1.0">
<title>Employee Salary Details</title>
<style>   body
{
        margin: 0;padding: 0;
font-family: Arial, sans-serif;
background-
image:lineargradient(orange,white,green);
background-size: cover;         display:
flex;         flex-direction: column;
justify-content: center;         align-
items: center;
        height: 100vh;color: white; }
  .container {       background:black;
padding: 20px;       border-radius: 10px;
width: 80%;  box-shadow: 04px8pxrgba(0,
0, 0, 0.2);}    h1 {         text-align:
center;
        margin-bottom: 20px;      }
table {         width: 100%;
border-collapse: collapse;
margin-top: 20px;      }          th, td
{         padding: 10px;         text-
align: center;      }          th {
background-color: rgb(132, 0, 255);
color: black;       }   tabletr:nth-
child(-n+4) {    background: linear-
gradient(20deg, rgb(255, 166, 0),
rgb(249, 208, 133));     color:black  }
tabletr:nth-child(n+6):nth-child(-n+7) {
background: linear-gradient(20deg,
rgb(42, 16, 241), rgb(148, 134, 250));
color: black  }   tabletr:nth-child(n+5)
{
    background:              linear-
gradient(20deg, white, rgb(246, 206,
206));           color:  black     }
tabletr:nth-last-child(-n+3)       {
background:   linear-gradient(20deg,
rgb(9, 235, 50), rgb(140, 245, 131));
color:  black  }     .salaryColumn  {
display: none;      }
```

```
    #toggleButton {
margin-top: 20px;
padding: 10px20px;
background-color:
#e74c3c;      color:
white;border: none;
border-radius:
4px;cursor: pointer;
transition: background-
color0.3sease;}
#toggleButton:hover {
background-color:
#c0392b;}
  #totalSalaryButton {
display: none;
margin-top: 20px;padding:
10px20px;     right:
78px; padding: 10px20px;
background-color:
#27ae60;     color:
white;border: none;
border-radius:
4px;cursor: pointer;
transition: background-
color0.3sease;}
  #totalSalaryButton:hover  {
background-color: #219451; }
</style>
</head>
<body>
  <divclass="container">
    <h1>Employee Salary
Details</h1>
    <table>
        <tr>
   <th>Serial No</th>
   <th>Employee ID</th>
   <th>Employee Name</th>
   <th>Post</th>
<thclass="salaryColumn">Salar
y</th></tr>
   <tr>
  <td>1</td>
  <td>E1001</td>
  <td>Aman Prasad</td>
  <td>Web Developer</td>
  <td>Front-End Developer</td>
  <tdclass="salaryColumn">$55,000</td></tr> </table>
    <divstyle="display:  flex;  justifycontent:  space-between;
align-items: center; margin-bottom: 10px;">
      <buttonid="toggleButton">Show/Hide
Salary</button>
      <buttonid="totalSalaryButton">Calculat e Total
Salary</button>
    </div>
    <divid="totalSalary" style="display: none; text-
align:center; margin-top: 20px;">       <strong>Total Salary:
</strong><spanid="totalSalaryAmount">$0</spa n>
    </div></div>   <script>
constsalaryColumns=document.querySelecto
rAll(".salaryColumn");
consttoggleButton=document.getElementByI d("toggleButton");
consttotalSalaryButton=document.getEleme
ntById("totalSalaryButton");
consttotalSalaryDisplay=document.getElem
entById("totalSalary");
consttotalSalaryAmountDisplay=document.getEl
ementById("totalSalaryAmount");
     toggleButton.addEventListener("dblclick"
, () => {       salaryColumns.forEach(column=> {
column.style.display=
(column.style.display=== "none") ? "tablecell" : "none";});

                        constanySalaryVisible=Array.from(salar
                  yColumns).some(column=>column.style.display!
== "none");
      totalSalaryButton.style.display=anySal aryVisible?
"inline-block" : "none";
totalSalaryDisplay.style.display=
"none";    });
    totalSalaryButton.addEventListener("clic k", () => {
      lettotalSalary=0;
      for (leti=1; i<salaryColumns.length; i++) {
constcolumn=salaryColumns[i];
```

```
<tdclass="salaryColumn">$50,0
00</td></tr>
 <tr>
  <td>2</td>
  <td>E1002</td>
  <td>Md Shoeb Ali</td>
  <td>Software Assocoiate
Engineer</td>

<tdclass="salaryColumn">$60,0
00</td>
  </tr>
  <tr>
  <td>3</td>
  <td>E1003</td>
  <td>Amit Srivastav</td>
```

```
    if (column.style.display
constsalaryValue=parseFloat(c
.textContent.replace(/[^0-9.-
totalSalary+=salaryValue;}}
totalSalaryAmountDisplay.text
"$" +totalSalary.toFixed(2);
```

```
    totalSalaryDisplay.style.display=
"block";});
  </script>
</body>
</html>
```

```
// NODE JS Code


consthttp=require('http'); constfs=require('fs'); http.createServer((req, resp)=>{
fs.readFile('1.1-ExpEmployee.html', function(err, html){ resp.writeHead(200,{'Content-
Type':'text/html'}); resp.write(html); resp.end();
})
}).listen(7000);
```

OUTPUT: -

LEARNING OUTCOMES: -

1. Able to understand and explain HTML ,Bootstrap, CSS and JavaScript.
2. Able to understand and explain theuseNode Js.
3. Able to understand and explain the concept ofmodule, http, require, fs, read, writeHead, write etc.

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