

<b>Ex. No. 10</b>	<b>HTML Form Processing using Node JS Sever Application</b>
<b>Date of Exercise</b>	26.10.2022
<b>Web Host Link</b>	
<b>Video Link</b>	<a href="https://drive.google.com/file/d/1sR1iPmKJyyCJojKtwIBxOBKGF7pE1R6k/view?usp=share_link">https://drive.google.com/file/d/1sR1iPmKJyyCJojKtwIBxOBKGF7pE1R6k/view?usp=share_link</a>

### Aim

To Create an HTML Form Processing using Node JS Server Application

### Description :

http module

- ☐ Node.js has a built-in module called HTTP, which allows
- ☐ Node.js to transfer data over the Hyper Text Transfer Protocol (HTTP).
- ☐ To include the HTTP module, use the require() method: `var http = require('http');`

Node.js as a Web Server

- ☐ The HTTP module can create an HTTP server that listens to server ports and gives a response back to the client.
- ☐ Use the createServer() method to create an HTTP server.

req and res object

req – object used to read incoming messages in http request.

- ☐ Access the url of HTTP Request: `res.write(req.url);`
- ☐ Access the request method type (POST or GET): `res.write(req.method);`

res – object used to send response data from server to browser(client)

☐ Send response content in text or html to client browser: `res.write("<h1>Welcome to Node JS</h1>");`

### Add an HTTP Header

If the response from the HTTP server is supposed to be displayed as HTML, you should include an HTTP header with the correct content type: `res.writeHead(200, {'Content-Type': 'text/html'});`

### Display Output of HTML file using HTTP res object

res object can be used to send HTML page content as response to the HTTP Response.

☐ `const fs = require('fs');`

☐ `fs.createReadStream('signup.html').pipe(res);`

### req.on method

☐ When receiving a POST or GET request, body data can be accessed via req object through ReadableStream.

☐ We can grab the data right out of the stream by listening to the stream's 'data' and 'end' events.

☐ The 'data' and 'end' event are handled by req.on method.

### Question:

Create a Node JS Server application for designing new user registration HTML form page and process all the HTML Form details and display the same when the form is submitted.

When the server URL is `http://localhost:6000` is executed display the home page as given below

[All fields are mandatory and use predefined html form validator also]



```
var server = http.createServer(function(req,res){ if (req.url === '/'){
res.writeHead(200,{"Content-Type":"text/html"});
fs.createReadStream('Exp10.html').pipe(res);
}
else if (req.url === '/server' && req.method === 'POST'){ var rawData = '';
req.on('data',function(input){ rawData += input;
})
req.on('end',function(){
var inputdata = new URLSearchParams(rawData); res.writeHead(200,{"Content-
Type":"text/html"}); res.write("<table border='1'>")
res.write("<h1 style='color:blue;position: relative;left: 40%;>User Submitted
details</h1>")
res.write("<table border=1 cellspacing=0 style='color:blue; position: relative;left: 35%;
width:450px;>")
res.write("<tr><td style='padding:10px;> Name </td><td style='padding:10px;>"
+inputdata.get('name') + '</td></tr>');
res.write("<tr><td style='padding:10px;> Password </td><td style='padding:10px;>"
+inputdata.get('pass') + '</td></tr>');
res.write("<tr><td style='padding:10px;> Age </td><td style='padding:10px;>"
+inputdata.get('age') + '</td></tr>');
res.write("<tr><td style='padding:10px;> Mobile Number </td><td style='padding:10px;>"
+inputdata.get('mobile') + '</td></tr>');
res.write("<tr><td style='padding:10px;> Email </td><td style='padding:10px;>"
+inputdata.get('email') + '</td></tr>');
res.write("<tr><td style='padding:10px;> Gender </td><td style='padding:10px;>"
+inputdata.get('gender') + '</td></tr>');
res.write("<tr><td style='padding:10px;> State </td><td style='padding:10px;>"
+inputdata.get('state') + '</td></tr>');
res.write("<tr><td style='padding:10px;> Skills </td><td style='padding:10px;> <ol>");
if (inputdata.get('s1') == ''){

}
else{
res.write("<li>" +inputdata.get('s1')+"</li>")
}
if (inputdata.get('s2') == ''){

}
else{
```

```

res.write("<li>"+inputdata.get('s2')+"</li>")
}if (inputdata.get('s3') == ''){

}
else{
res.write("<li>"+inputdata.get('s3')+"</li>")
4

```

```

        }if (inputdata.get('s4') == ''){

        }
        else{
            res.write("<li>"+inputdata.get('s4')+"</li>")
        }
        res.write("</ol></td></tr></table>")
        res.end();
    });
}
})
server.listen(5050,function(){
    console.log("Server is running");
})

```

## Output

# Registration Form!

Name:

Password:

Age:

Mobile Number:

Email:

Gender: ☐ Male ☐ Female

State:  ▼

Skills: ☐ Java Script ☐ Python ☐ C++ ☐ Java

## User Submitted details

Name	swetha
Password	swetha20
Age	16
Mobile Number	9876543219
Email	swetha@2002
Gender	female
State	Tamilnadu
Skills	1. Python 2. C++

### Result

The Web page is created successfully

