



STAGE 4

INSTRUCTIONS

Hit the following URL to check the code

LOCALHOST:8089/STAGE4.HTML

INDEX.JS

```
var express = require('express');
var bodyParser = require('body-parser');
var app = express();

app.use( bodyParser.json() ); // to support JSON-encoded bodies

app.use(bodyParser.urlencoded({ // to support URL-encoded bodies
  extended: true
}));

app.get("/test", (request, response) => {
  response.send("<h1>Executing Test Handler</h1>");
});
```



```
app.get("/hello",(request, response)=>{
  var data = "";
  var times = request.query.times;
  var message = request.query.message;
  times = (times === undefined )? 5 : parseInt(times);
  message = (message === undefined )?"Hello" : message;
  for(var i = 0; i <times ; i++){
    data += "<h1>" + message + "</h1>";
  }
  response.send(data);
});

app.post("/hello",(request, response)=>{
  console.log(request);
  var data = "";
  var times = request.body.times;
  var message = request.body.message;
  times = (times === undefined )? 5 : parseInt(times);
  message = (message === undefined )?"Hello" : message;
  for(var i = 0; i <times ; i++){
    data += "<h1>" + message + "</h1>";
  }
  response.send(data);
});

app.get("/jsonendpoint1",(request, response)=>{
  response.setHeader('Content-Type', 'application/json');
  response.send(JSON.stringify({x:1,y:2}));
});

app.get("/jsonendpoint2",(request, response)=>{
  response.setHeader('Content-Type', 'application/json');
  response.send(JSON.stringify({message: "I Love AJAX",times:3}));
});

app.listen(8089,()=>{
  console.log("Express server started at port 8089");
});
```



```
app.use(express.static("public"));  
console.log("Staring Stage4");
```

STAGE4.HTML

```
<!DOCTYPE html>  
<html>  
  <head>  
    <title>ExpressJs AJAX Stage4</title>  
    <meta charset="UTF-8">  
    <meta name="viewport" content="width=device-width,  
initial-scale=1.0">  
    <style>  
      textarea {  
        background-color: black;  
        color: white;  
        height: 300px;  
        width: 400px;  
      }  
      button{  
        background-color: green;  
        color: white;  
        padding:20px;  
      }  
      form{  
        background-color: khaki;  
        color: black;  
        padding:20px;  
      }  
    </style>  
    <script>  
      function run1() {  
        console.log("Entering AJAX run");  
        var xhttp = new XMLHttpRequest();  
        xhttp.onreadystatechange = () => {  
          if (xhttp.readyState === XMLHttpRequest.DONE  
            % xhttp.status === 200) {
```

```
xhttp.status === 200) {
    console.log(xhttp.responseText);
    document.getElementById("ta").value =
xhttp.responseText;
    }
};
xhttp.open("GET", "/jsonendpoint1", true);
xhttp.send();
console.log("Leaving run");
}
function run2() {
    console.log("Entering AJAX run");
    var xhttp = new XMLHttpRequest();
    xhttp.onreadystatechange = () => {
        if (xhttp.readyState === XMLHttpRequest.DONE
&& xhttp.status === 200) {
            console.log(xhttp.responseText);
            document.getElementById("ta").value =
xhttp.responseText;
            var data = JSON.parse(xhttp.responseText);
            document.getElementById("message").value =
data.message;
            document.getElementById("times").value =
data.times;
        }
    };
    xhttp.open("GET", "/jsonendpoint2", true);
    xhttp.send();
    console.log("Leaving AJAX run");
}
</script>
</head>
<body>
    <h1>HTML Page with AJAX</h1>
    <br>
    <button onclick="run1()"> GetAjaxData </button>
    <br>
    <br>
    <textarea id="ta" style="width:300;height:300">
```



```
This is some static content in textarea
</textarea>
<br>
<br>
<button onclick="run2()"> Populate Form </button>
<br>
<br>
<form method="post" action="/hello">
  <table>
    <tr>
      <td>
        <label style="padding-right:10px"> Message
</label>
      </td>
      <td>
        <input name="message" value="0"
id="message" type="text"/>
      </td>
    </tr>
    <tr>
      <td>
        <label style="padding-right:10px"> Times
</label>
      </td>
      <td>
        <input name="times" value="0" id="times"
type="text"/>
      </td>
    </tr>
    <tr>
      <td>
        <input type="submit" value="Submit"/>
      </td>
    </tr>
  </table>
</form>
</body>
</html>
```



