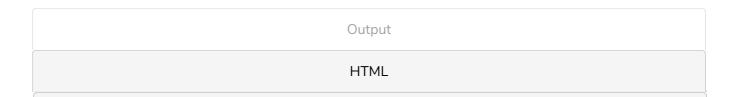
Publishing Web Pages

This lesson teaches how to publish and return web pages from a custom web server.

Finally, let's learn how to serve HTML content so that your web server can come into its own. For example, GET HTTP requests to the "/hello" route should show a basic web page. A naive way to do so would be to simply return an HTML string.

```
Output
                                           HTML
// Return HTML content for requests to "/hello"
app.get("/hello", (request, response) => {
  const htmlContent = `<!doctype html>
    <html>
   <head>
      <meta charset="utf-8">
      <title>Hello web page</title>
   </head>
   <body>
     Hello!
    </body>
    </html>`;
  response.send(htmlContent);
});
```

However, things would quickly get out of hands as the complexity of the web page grows. A better solution is to define the HTML content in an external file stored in a dedicated subfolder, and return that file as a result of the request. For example, create a subfolder named views and a file named hello.html inside it. Give the HTML file the following content.



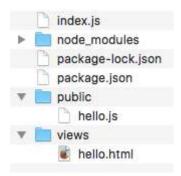
Then, update the callback for the "/hello" route to send the HTML file as the request response.

```
// Return a web page for requests to "/hello"
app.get("/hello", (request, response) => {
  response.sendFile(`${__dirname}/views/hello.html`);
});
```

Pointing your browser to the "/hello" URL (http://localhost:3000/hello if your server runs locally) should now display the web page. Most web pages will need to load client-side resources such as images, CSS and JavaScript files. A common practice is to put these assets in a dedicated subfolder. For example, create a public subfolder and a hello.js JavaScript file inside it with the following content.

```
// Update the "content" DOM element
document.getElementById("content").textContent = "Hello from Java
Script!";
```

You should now have the following folder structure for your server.



Update the hello.html to load this JavaScript file.

```
<script src="/hello.js"></script>
```

Lastly, you must tell Express that client assets are located in the public subfolder, so that the server can serve them directly. Add the following code towards the beginning of your main application file.

```
// Serve content of the "public" subfolder directly app.use(express.static("public"));
```

Accessing the "/hello" URL shows you a slightly different result. The hello.js file was loaded and executed by the browser, updating the web page content.

In this example, JavaScript was used both for back-end (server side) and frontend (client side) programming. This is one of its core strengths: knowing only one programming language empowers you to create complete web applications. How great is that?